

# SELF STUDY REPORT

*Submitted to*

NATIONAL ASSESSMENT AND  
ACCREDITATION COUNCIL (NAAC)



*Submitted by*



**VEL TECH HIGH TECH  
Dr.RANGARAJAN Dr.SAKUNTHALA  
ENGINEERING COLLEGE**

(Approved by AICTE, Affiliated to Anna University, Chennai &  
ISO 9000:2008 Certified Institution & Accredited to NBA)

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## PREFACE

Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College was established in the year 2002 under R.S.Trust. This Institution was founded by the Philanthropic Personalities- Dr.R.Rangarajan and Dr.Sakunthala Rangarajan, who are the Founder President and Foundress respectively. Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College was formerly known as Vel SRS Hitech Engineering College and was started with three departments to its credit viz. Electronics and Communication Engineering, Civil Engineering and Chemical Engineering. The institution was approved by AICTE and was affiliated to Anna University in 2002. Under the governance of AICTE & Anna University, this institution has 11 branches of study with 8 UG Programmes and 3 PG Programmes.

It is now an ISO 9001:2008 certified and NBA accredited institution for ECE and CIVIL engineering branches and awarded 2(F) and 12(B) status by University Grants Commissio. The Institution is located in Avadi , Chennai and draws students from all states of India. Vel Tech High Tech is located in a sprawling campus which spreads in about 30 acres. The nearest airport is Chennai (about one hour drive) and all suburban trains stop at Avadi which is about 15 minute drive away from the campus. The campus is accessible by road from Chennai, Bengaluru and Andhra Pradesh.

The Institution is enriched with well-defined infrastructure which includes Department buildings, Laboratories, a Central Library, Research Centre, Common Amenities and Students Hostels. The assets of this institution are the well qualified and experienced faculty and staff. Our Institution consistently adds feathers to its cap with University Gold Medalists and Rank holders.The Institution is also accredited by companies like Tata Consultancy Services, Cognizant Technology Solutions, WIPRO Trusted Academic Partner and Infosys Campus Connect.

The Institution functions under the headship of Principal Dr.K.Murugesan who along with the Vice –Principal assigns the duties and responsibilities to the faculty and staff members under the guidance of the Governing Council and Advisory Committee. The Board of Council, Principal and the faculty members extends an all-out effort to ensure the quality of teaching and learning and to meet the vision and mission of the Institution. The institution fosters growth by continually encouraging the self-growth of the faculty and students.

**AICTE Approval:** The approval status for the year, 2016-17

S.No	Name of the Program	Approval Details
1	Engineering and Technology	F. No. Southern/1-2811052746/2016/EOA Dt.05-04-2016

**Anna University Affiliation:** The affiliation status for the year, 2015-16

S.No	Name of the Program	Affiliation Details
1	Engineering and Technology	Lr.No.02/AFFLN/CAI/AU/2015-16/1130. Dt.12-05-2015

**Permanent Affiliation:**

S.No	Name of the Department	Year of Grant
1	Electronics and Communication Engineering	2013-14
2	Civil Engineering	2013-14
3	Chemical Engineering	2013-14
4	Information Technology	2015-16
5	Biotechnology	2015-16
6	Computer Science and Engineering	2015-16
7	Master of Business Administration	2015-16

**ISO Certification:**

S.No	ISO Registered Details	Validity
1	ISO Registration No : 01100 106779	31-12-2013 to 12-01-2017

**UGC Grant for 12(b) and 2(f):**

S.No	Certification Description	Details
1	UGC Recognition for 12(b) and 2(f)	F. No. 8-542/2014 (CPP-I/C). Dt.26-06-2015

**List of UG and PG Courses offered with approved intake**

**UG Programmes:**

S.No	Name of the Programme	Sanctioned Intake
1	Electronics and Communication Engineering	120
2	Civil Engineering	120
3	Chemical Engineering	30
4	Computer Science and Engineering	120
5	Biotechnology	60
6	Information Technology	60
7	Electrical and Electronics Engineering	60
8	Mechanical Engineering	120

**PG Programmes:**

S.No	Name of the Programme	Sanctioned Intake
1	Masters of Computer Applications	60
2	Masters of Business Administration	60
3	Structural Engineering	18

### **Infrastructure:**

The strength of every institution is its state-of the art Infrastructure, The institution has a newfangled infrastructure of a sprawling campus spread across Morai village. The ultimate goal of the institution is to generate well qualified technical professionals and socially oriented moral citizens. To equip them with necessary skills and proper blend of theory and practice, the expertise of eminent Industry experts, Corporates, Scientists, Academicians and Management consultants is appropriately utilized.

### **The highlights of Infrastructure being:**

- ❖ Students are enriched with the updations in the latest technologies.
- ❖ Has full-fledged library armoured with large number of books, regular journal subscriptions, connectivity to other universities libraries.
- ❖ Students are enlightened through Smart classrooms with hybrid technologies.
- ❖ Teaching based on ICT's
- ❖ Each and every department is equipped with aesthetically designed Laboratories with latest tools and techniques.
- ❖ The faculty and students are afforded with a very high speed 42 Mbps speed internet connectivity.
- ❖ Separate sports clubs for boys as well as girls are available with facilities such as Basket Ball Court, Badminton Court, Gymnasium, and other indoor games such as Table Tennis Court, Carom etc.
- ❖ The institution is endowed with a spacious mess hall, and three food courts exclusively.
- ❖ The hostel is equipped with Wi-Fi networks, newspapers for students, a beauty salon, general stores, indoor games, gym, a Higginbotham



book store and cuisines prepared according to the regional backgrounds.

- ❖ The institution also has a hospital, a full-time doctor and separate common rooms for boys as well as girls are available.
- ❖ The institution has a transport department and provides a strong connectivity from various places in and around Chennai by operating nearly sixty eight buses. Students will be monitored by a BMO (Bus Monitoring Officer) in each and every bus. It also augmented by Metro Transport Cooperation bus services and nearly 15 buses in the morning and evening are operated. Students can apply for bus pass to avail the services.

#### **Eminent Professors and Dynamic Faculty:**

The institution is empowered with well-experienced and Dynamic Faculty members who can add value to the students. Nearly forty Faculty members are Doctorates in various disciplines and nearly fifty faculty members are pursuing their PhDs. Their expertise is demonstrated through Publications, acquisition of fund grants for research projects and Patents.

#### **Student Associations:**

The institution has an exclusive Controller of Examinations to organize and coordinate conduct of examinations. The institution has various clubs such as

- ❖ Entrepreneurship Development Cell, Higher Education Cell, Knowledge Resource Centre , Placement & Training Cell
- ❖ Cultural Cell
- ❖ Social Welfare Club
- ❖ Sports Club
- ❖ NCC- Army and Navy
- ❖ Youth Red Cross
- ❖ Innovation Cell

❖ Women's Empowerment Cell

Students are highly participative in all the different clubs. They participate and awarded with several medals, in various state level and national level events.

**Student Mentoring:**

In order to allow and encourage independent thought process, effective interaction within the team, to foster reciprocal foundation of trust and respect and for effective facilitation, extending moral support and guidance, Vel Tech High Tech has established a mentoring system.

This system assigns twenty students to each faculty to build and empower the students' self-confidence as well as their knowledge through their advice, support, and encouragement. Notification to parents about their 'wards' academic details, attendance and discipline will be done. This mentoring will be done periodically to discuss on the academic and non-academic problems of the students. The e-catalogue of the counselling details are maintained by the mentors.

**Innovation:**

Today, technology is a significant driver behind change, and sometimes plays an important role in innovations in educational design and delivery. There are immense possibilities for greater and wider-spread change with the use of present-day technological advancements, as well as with the implementation of innovative educational programs. The challenge is to ensure that innovation plays a constructive role in improving educational opportunities for billions of people who remain under-served in a rapidly developing world. Hence, our Institution fosters innovation through supporting faculty and students in presenting their new ideas/building prototypes/working models. With the

support from experts' scrutiny, the projects are submitted to various District level/ State level/ national Level competitions. By this unique method, students achieve many awards/prizes/certificates and cultivates their talents, in turn, increase their confidence level. These innovations are applied for patents.

### **R&D Activities:**

The faculty members have presented /published more than 664 research papers in high impacted/SI Journals at National and International Conferences in the past three years and published the same. The Department of Civil Engineering has registered three patents. Department of Chemistry is recognized as a Research Centre by Anna University. Once in three months, the proposals for funding by faculty members is scrutinized by experts from various Government agencies and other leading private organizations. Projects discussed in this meeting are submitted after screening through preliminary level R&D meeting, conducted weekly once.

### **Research Centers Recognized:**

Anna University approved centers are established in the campus for the departments as follows:

S.No	Recognized Centre	Reference No. with date
1	Department of Chemistry	Lr.No.122/IR/Chemistry/AR1 21.08.12

### **LIST OF RESEARCH LABS ESTABLISHED BY FUNDING:**

1. SERB Sponsored Institute funded by DST, Govt. of India
2. AICTE

### **Patents and MOUs with various organizations:**

The Department of Chemical Engineering had accoladed with a patent. The Faculty of Civil Engineering department has applied for 3 patents and the students of this institution are also invited to apply for Patents. The Institution has

signed thirteen Memoranda of Understanding with various institutions such as Central Power Research Institute, National Small Industries Corporation, Ramco Steels Private Limited, DELNET, Global Coal & Mining Pvt Ltd, and HCL Career Development Centre and so on.

**Industry–Academia Interactions:**

Eminent Industrialists and Resource Persons are invited from the academia/industry to initiate enlightenment on technical as well as non-technical topics. Through this, the students can gain practical exposure to enhance their theoretical knowledge thus helping them to have an industry-academia interface. Students are also exposed to industrial practices and scenarios by organizing to Industrial Visits. Students are encouraged to pursue InPlant training and the training inculcates recent trends adopted in industries. Knowledge exchange/sharing for faculty members as well as students also takes place in the Interaction through various means such as Faculty Development Programme, Conferences, Seminars, Workshops and Training Programmes at National and International levels. Every year all departments organize either National or International Conferences.

**Central Library:**

The Central library is fully computerized and stocks nearly 43100 books, 101 National Journals and 1026 CD'S and can be accessed by students and faculty members. Besides these books and journals, every academic year about 3100 new volumes and 101 National Journals will be added to central library. The library has joined INDEST consortium for e-journals access at discounted rates fixed by MHRD. This enables users to access the journals online. Besides these, five different language newspapers, journals and magazines are bought through subscriptions. The library boast a state-of-the-art digital library.

The College provides services like Reference service, Bibliographic service, Inter library loan service, Reprographic service, CD-ROM search and Internet browsing facility. All the books are bar-coded in the library & barcode laser scanners are used in the circulation counter for book transaction and to keep track of the books.

The subscribed E-Resources are IEEE (ASPP ENGG) and IEEE (ASPP)-MCA, ASCE Journals, ASME Journals, ASTM Journals and standards, GALE and J-GATE (Management Journals), J-GATE (Engineering Journals), Science Direct including the Materials Science Subject Collections, EMERALD Management Journals, and Springer link- EEE Journals College. Library has EDUSAT Programmes and NPTEL video courses. In addition, the library is also connected with other premier libraries like DELNET, Anna University library and British Council Library.

### **Placement and Training:**

The placement cell is vibrant which holds nearly 520 regular recruiters and institution is accredited by the well reputed TCS, Wipro, CTS and other Core industries. The Institution has exclusive interview halls and group discussion halls for recruitments for on-campus placements. In order to make the students industry ready, special lectures, trainings for placement guidance and pre-placement internships are provided by both internal and external trainers.

There have been more than 520 regular recruiters from IT, IT enabled services and core engineering companies. The activities associated with on-campus placement drives are organized in exclusive interview Halls and group discussion halls for recruitments and around 92% of the eligible students get placed annually in various leading MNCs with good salary package.

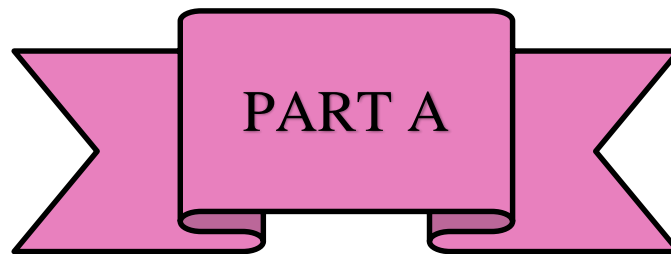
### **Scholarships:**

The College allots a regular Science and Humanities department faculty as a scholarship officer for Students and those students from economical weaker section of the society are being arranged scholarships by the College. All Government scholarships and other special scholarships for the students from SC/ST, MBC, and BC are also arranged for the Students. Other than these scholarships, the institution has also provided various scholarship plans for the students.

- ❖ L&T's Built India Scholarship
- ❖ Brother's Scholarship to pursue Higher Studies at Nagoya Institute of Technology, Japan.
- ❖ Pragati and Saksham Scholarship Scheme, AICTE
- ❖ Other Scholarships by Government of Tamil Nadu/DOTE (BC/MBC/SC/ST)
- ❖ Government of Tamil Nadu - Farmer's Scholarship
- ❖ Foundation for Academic Excellence and Access(FAEA,New Delhi)
- ❖ Department of Minorities Welfare
- ❖ State Government sponsored First Graduate Scholarship

### **Inplant Training and Internship Programmes:**

Our Institution encourages and exposes the students to interact with real-time projects in industries through Inplant training and Internship programs. The institution adheres a policy in such a way that all branch students should complete minimum one inplant trainings per academic year and submit observation and interaction report of training to department HOD for documentation. Institution allows the students to pursue internship programs in holidays and to submit the report to department.



## Executive Summary – SWOC Analysis

## **EXECUTIVE SUMMARY**

### **CRITERION I: Curricular Aspects**

Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College formerly known as Vel SRS Hitech Engineering College was started in the year 2002 with three departments to its credit, Electronics and Communication Engineering, Civil Engineering and Chemical Engineering. Now it offers eight under graduate courses and three Post Graduate courses, leading to the award of B.E, B.Tech, M.E, MCA and MBA degrees of Anna University, Chennai. The institution was approved by AICTE and was affiliated by Anna University in 2002. It is now an ISO 9001:2008 certified institution. The Institution is dedicated, diligent, and passionate towards education and leaves no stones unturned. The institution follows the curriculum of Anna University. The curriculum is revised by Anna University to keep abreast of the trends and technologies. Inculcating Commitment, Discipline, Determination, Responsibility and Self Esteem and Graduate Attributes through Outcome based Education is the fundamental principle behind all teaching learning methodologies adopted by the institution. They increase the capabilities of the students to meet universal challenges with good and relevant skills, in communication and presenting themselves outside in any diverse ethnic and cultural environment, as it also imparts a sense of value system in them.



The institution also encourages both the students and faculty of every department to actively participate as well as to organize national and international conferences, workshops, and seminars to update the knowledge and improve the teaching and learning practices.

The institution has a separate cell for Entrepreneurship to instill Entrepreneurship spirit among students. The Institution also offers certification courses like CISCO certification, ESOL examinations (BEC) conducted by University of Cambridge, QAB cell programs and IBM training to provide more placements for students. In order to expose the students to the latest technologies, The Institution has set “Microsoft Innovative Centre” at the campus and the Institution encourages the students to become self-employed through value added courses and entrepreneurship development courses.

The College has developed a scheme of collecting feedback from the students, alumni, the academicians, the guest faculty, experts from industries and the parents. These responses are analyzed for planning and restructuring the strategies where the objectives for merit become noticeable in curriculum and the final output.

### **CRITERION II: Teaching-Learning and Evaluation**

The faculty adopt innovative approaches to teaching and learning by introducing smart board / Internet / LCD Projector / OHP / field work / visits to industries / socio-economic health surveys. Academic support, personal and

psycho-social support, and guidance services are provided to students. The Institution library purchases books and subscribes to various journals/newspapers, with the funds granted. Books for preparation for competitive examinations/internet facilities are provided to the students. Syllabi/question papers of the College/University examinations are kept in the reference section. Almost all the departments have seminar libraries which complement the central library. The Higher Education Cell helps students to cope with the demands of competitive exams. The teaching learning atmosphere prevailing in this institution and the high percentage of results (90% to 100% in most of the programmes) result in almost 100% student enrolment in all the disciplines. The institute monitors/evaluates the quality of teaching-learning through IQAS, established in the year 16/02/2013. The processes includes, Academic schedule, lesson plan, time table, availability / provision of question bank with answers, lab manual and assignments and Grievance Redressal Cell which collect feedback from all stakeholders. The institutuion adopts an outcome based formative assessment methods and based on the outcome attainment level, appropriate measures are initiated to attain/improve outcome target level Examinations are held as per the Anna university schedules for proper evaluation and preparation of the students to face the global challenges. With the motive of enlightening the admitted students, and to accomplish Programme Educational Objectives that the Institution grooms them

in their academic, co-curricular and personality developmental spheres. This is done successfully by effectively implementing the schedules in align with the University guidelines and the sincere efforts by both teaching and non-teaching staff. The outcome is reflected in the career-graph of the alumni in later life. The Institution encourages the students to demonstrate their innovative projects and achievements. This makes the students to think and apply their creativity and scientific temper towards the particular scientific problem which transforms the students into lifelong learners and innovators.

The Institution conducts Bridge course, remedial classes, seminars, conference at state and national level, training on soft skills and aptitude in various technical aspects for the betterment of students.

The Institution and encourages staff to offer continuous improvement in teaching-learning procedures and to develop their knowledge on the advanced trends that help them for effective teaching. E-learning resources are obtained from National Programme on Technology Enhanced Learning (NPTEL), EDUSAT, working models and open resources of various national and international universities. The Institution permits the faculty members to avail for on-duty to attend the (FDP) faculty development programmes and workshops and also provides financial incentives for R&D activities. Information and Communication Technologies (ICT's) are used by the faculty to enhance the teaching and learning process.

Class committee meetings are conducted regularly and the feedback is used for the evaluation of quality of teaching and learning process. The senior teaching faculty mentor the junior faculty in subject preparation and teaching methodologies. Necessary books and journals are available in the library for both faculty and the students.

A self-appraisal mechanism is followed to evaluate the teachers based on their teaching, participation in the departmental /College activities, research, FDPs organized and attended and their involvement in research and publications. Depending on the evaluation, the faculty are given promotion, increments and awarded merit certificates and motivated to improve the quality of teaching and learning process.

Through the process of mentoring, slow learners are identified and monitored individually by their respective mentors and are trained through periodical tests to improve their performance.

### **CRITERION III: Research, Consultancy and Extension**

The institution encourages and extends all help to promote research activities in the institution. Adequate infrastructure and human resources are provided by the institution for smooth progress and implementation of research schemes/projects and other research initiatives. Internet, LAN, National and International journals, e-journals subscriptions are made available to all faculty

to facilitate research activities in the College. Faculty are motivated in the department to pursue at least one minor/major research project in their area of specialization or one that is inter-disciplinary in nature.

Faculty have published and presented a large number of research papers in various National/International seminars in their individual capacity and in collaboration with associates leading to publication of 461 research papers, in National/International journals, books, chapters in books, and 664 articles are published in proceedings of seminars and as other etc.,

The College regularly conducts, seminars, guest lectures, national and international conferences and technical symposiums for the benefit of both students and faculty members. It also paves way for interaction with resource persons during the above events in order to enhance their knowledge for carrying out research.

The College has signed 13 Memorandum of Understanding (MoU's) with various institutions such as Central Power Research Institute, National Small Industries Corporation, Ramco Steels Private Limited, DELNET, Global Coal & Mining Pvt Ltd, HCL Career Development Centre and so on.

The College encourages the faculty to improve their career prospects by involving in consultancy services. The Departmental Advisory Committee meeting is a platform where the expertise of the faculty will be exposed to the experts from industries and academics. Similarly, interactive sessions take

place during workshops, seminars and guest lectures. The Institution fosters growth by offering monetary benefits, reducing academic work load of faculty, sponsoring the faculty to attend workshops to utilize their expertise and available facilities for consultancy services.

#### **CRITERION IV: Infrastructure and Learning Resources**

The Institution is endowed with excellent physical infrastructural facilities to support the teaching-learning process. The campus is spread over 1,21,648.50 square metres of land. All the classrooms are well ventilated, ideal for learning and five classrooms have audio facilities. Further, there are seventeen tutorial halls. There are eighty three Laboratories for different disciplines like Computer Science, Electrical, Electronics and Communication, Bio-Technology, Chemical, Mechanical and Civil Engineering. The laboratories are upgraded with necessary equipments. The Institution has a conference hall, eleven seminar halls with advanced audio-visuals multi-media facilities like LCD Projectors and Computers with High Configuration of the Latest Generation with Internet connections to organize seminars, lectures, other academic activities and administrative meetings. There is an auditorium with an accommodation of 1000 people, which is unique of its kind with a stage for academic as well as cultural activities.

The Institution has been equipped with a Central library with adequate number of books, journals, magazines and e-journals. The Institution also provides other necessary infrastructural facilities for the effective functioning of women's empowerment cell, HEC, NCC, YRC, KRC, Sports, EDC, Counseling and other recreational activities. The Institution has a medical room and lift facilities. There are three food courts and a mess hall. Institution has separate hostel for boys and girls with all basic amenities.

#### **CRITERION V: Student Support and Progression**

The official website, [www.velhightech.com](http://www.velhightech.com), and our presence in social media provide relevant information to stakeholders. Welfare schemes for students include financial assistance/scholarships from central/state govt. /other national agencies, reservation in admission, remedial coaching, railway / bus concessions, free ships / half-free ships for tuition fees on merit-cum-means basis, and assistance to needy students (books / tuition fees / medical help) from the Institution fund. Opportunities/facilities for career counselling, publication in the Institution Magazine/, participation in sports, NSS and cultural activities enable students to develop themselves as worthy Citizens of India. The alumni have a good success-record in competitive examinations for administrative posts in government offices and in academic institutions. Academic, personal, career and psychological counselling is offered by teachers. The Institution has adopted

the UGC Regulations on curbing the menace of ragging in higher educational institutions and has constituted an Anti-Ragging Committee governed by the senior staff members of the College. No instances of ragging have been reported during the last four years. The registration process of Institute's Alumni Association was initiated and it is under process. However, the head of the Institute organizes annual alumni meet in the Institution premises. The Institution is proud to have distinguished alumni, many of whom contribute to the progress of the Institution with advice and aid. Many examinees obtain First Class marks in the university examinations

The College regularly conducts personality development programs for the students and trained by the faculty to appear for TOFEL, GRE, CAT, GATE & N E T exams. They widely motivate themselves in publishing articles in symposia/ National & International conferences.

Students are also exposed to the current trends in the industry by conducting guest lecturers from various reputed industries, where they are also encouraged to develop the projects in different industries. The innovative cell and entrepreneurship development cell encourage students to promote the innovative ideas for project development, patent enrollment and self-employment. The entrepreneurship development programs are conducted frequently for identifying and building a relationship between the organization and budding entrepreneurs of the College.



With the help of the mentoring session, students who are at the risk of failure and dropout are identified by the mentors and special attention and counseling will be provided through special classes after regular class hours.

Travel allowances and on-duty attendance are provided to the students who participate in the various curricular and extra-curricular activities. Faculty members accompany students to the Colleges/places where they participate to ensure the safety and security of the students and provide them the necessary emotional support. The Institution has medical center located near the campus. The service of a doctor and two nurses are available 24 hrs in the centre. The Institution has three ambulances that transport the physically weak and sick students from the Institution to the medical centre.

#### **CRITERION VI: Governance, Leadership & Management**

Right from the inception of the institution, we strive to achieve the high standards that we had set for ourselves. We aim to excel in our work and bring out the best in our students. ‘To breed excellence in everything we do and everything we are’ is our golden rule. With our eyes firmly set on this ideal, we continue our journey of imparting knowledge. Since the very first day, we provide the students with the state- of- the- art technology to ensure that our students get the best exposure to face the world with confidence. Apart from imparting knowledge and training we shape the overall development of the

students. We also take it as our primary responsibilities to get our students to take off on their career in the best possible way. It is a long road ahead of them and the best we can do is to provide them with support and guidance in every step they take.

The Board of Governing Body is always supportive towards academic work in the College. The academic leadership is given to the key faculty members by the Board of Governing Body and Principal for setting the academic priorities and exposing to spectrum of knowledge, creating culture of promoting Research. It provides freedom to faculty members to strengthen their teaching and learning and there by enriching student quality. The faculty members are responsible to complete their desired goal in the best possible manner within the stipulated period. The Principal is very vigilant about discipline, commitment and devotion towards work allotted to the faculty.

The College arranges confidential evaluation of the teachers and the overall institutional performance by the students, which is perused by the Principal, who takes necessary actions/initiatives for further improvement of the facilities offered by the institution. Salary of all staff is paid on the 1st of every month. Income/expenditure are closely monitored by the Accounting department along with the Finance Officer and overseen by the Principal.

The College also enhances the professional development of teaching staff by sponsoring the faculty members to pursue PhD and fully supports to conduct

FDPs, seminars and National /International conferences. Non-teaching staff members are allowed to pursue higher studies and attend training program to hone their skills.

### **CRITERION VII: Innovations and Best Practices**

The YRC/NSS of the College, undertakes various activities related to environment awareness in and outside the College. The club organizes seminars/lectures on contemporary environmental issues, regular science exhibitions and environmental health awareness camps in collaboration to increase the environmental awareness of the students. The Institution operates on Energy Conservation, Use of Renewable Energy, Water Harvesting, Check Dam Construction, Efforts of Carbon Neutrality, E-Waste Management, Plantations and Hazardous Waste Management. The Institution ground staff take several measures to keep the campus Eco-friendly by “GO GREEN”. Periodical supervision is done by our staff members on the maintenance of the existing trees and planting new saplings. Numerous trees, different varieties of flowering plants and shrubs are planted in the Institution campus.

The College has taken initiatives to make the campus eco-friendly by replacing the incandescent bulbs with the high efficient CFC bulbs throughout the entire campus. The rotary machines in the labs are well maintained. The campus hostel and buildings are supported with the solar power for alternative

power supply. All the buildings in the campus are provided with rain water harvesting facility.

The Institution strictly prohibits the use of tobacco and cigarettes inside the campus. The Institution installs the solid waste management facility and sewage treatment plants in the campus.

The process has a good foundation through which the faculty provides advice, support, and encouragement to the students. The Institution conducts the mentoring system to make the students excel in both their academic and personal lives. They also discuss with their parents about their academic details, attendance and discipline.

The progress card department maintained by the Institution helps the parents to track the holistic details of their wards. This system provides information about both the curriculum and the progress of the students. Every student has to provide the login information at the commencement of the session to access it.

The faculty members, research personnel, guest speakers, students and parents play important roles in making and improving the academic programs of the College. The stake holders are the best to add commendable value of the best practices of the College, as they depend on many variables. As per the feedback from the students and the stakeholders, the courses are revised. The Institution

dedicates itself for imparting education to meet the national standards and expectations and contribute its part in transforming India as a super power.

### **INSTITUTIONAL SWOC ANALYSIS**

#### **STRENGTHS:**

- ❖ ISO certified Institution
- ❖ Mentoring System
- ❖ Outcome based teaching learning process
- ❖ Very good placement record
- ❖ Conducive Education atmosphere
- ❖ Dedicated, qualified and experienced faculty.
- ❖ Simple, transparent and effective administrative system
- ❖ NBA Accredited departments.
- ❖ Permanent Affiliation obtained for seven departments.
- ❖ Good Admission track record.
- ❖ Round the clock internet facility
- ❖ Homely hostels with vegetarian / non vegetarian mess.
- ❖ Well equipped library.
- ❖ Transport facility
- ❖ Well laid down vision & mission with supportive and providential Management.
- ❖ Good and impressive Institute infrastructure.
- ❖ Consultancy and Entrepreneurship Development Cell (EDC) is operational.
- ❖ Organizing Guest lecturers by eminent academicians from reputed institution and industries.

### **WEAKNESSES:**

- ❖ Number of inadequate qualified technical staff in labs /workshops.
- ❖ Less Faculty development programs for faculty and technical staff.
- ❖ Less Industry Institute Interaction.
- ❖ Limited number of Patents and funding projects.
- ❖ Labs and classrooms need modernization on regular basis.
- ❖ Limited Library accessibility schedule
- ❖ Few numbers of Associate professors.
- ❖ Moderate faculty retention.
- ❖ Inability of new faculty to adopt best practices.

### **OPPORTUNITIES:**

- ❖ New Industry oriented courses can be started.
- ❖ Accreditation shall attract more funds and sponsorship from AICTE and other funding agencies for establishing a finishing school, Entrepreneurship cum R & D and Innovation Centers.
- ❖ Utilization of electricity from renewable sources.
- ❖ Growing economy is continually enhancing opportunities for better placement / employment both in institutes and industry.
- ❖ Potential is constantly growing to enhance Internal Revenue Generation (IRG) through R&D and Innovation Projects from nearby industries.
- ❖ Faculty with Ph.D should be encouraged to register themselves as Ph.D Supervisors and produce more PhDs from existing department's center of research.
- ❖ Large number of AICTE / UGC sponsored faculty development programs / conferences might be organized.

- ❖ Potentials are there for transforming MOUs into Operational relationships with national level institutes and industries.
- ❖ Opportunity through “Make in India” revolution for promoting funding projects.
- ❖ Scope through PIO and NRI admission, for collaboration with International Organizations.

### **CHALLENGES:**

- ❖ Many seats are left vacant at the end of admission drive due to competition with large number of engineering institutions at the state level.
- ❖ Mushrooming growth of Engineering Colleges has resulted in the shortage of competent faculty members.
- ❖ Retaining qualified and experienced faculty members has become a great problem for Engineering Colleges.
- ❖ Voluntary NBA accreditation is discouraged for adopting even minimum quality assurance of services by Professional Colleges.
- ❖ Mandatory UG courses NBA Accreditation to obtain approval for new PG Courses.
- ❖ Inability to attract sponsorship from funding agencies for Interdisciplinary projects.
- ❖ Delayed Scholarship reimbursement fees from State Government.
- ❖ Inclusion of industry demanding relevant topics into curriculum.
- ❖ Creating Eco-Friendly campus and paperless governance.
- ❖ To prepare and submit funding proposals in collaboration with foreign funding agencies.

## PROFILE OF THE INSTITUTION

### 1. Name and Address of the Institution:

Name:	<b>VEL TECH HIGH TECH Dr.RANGARAJAN Dr. SAKUNTHALA ENGINEERING COLLEGE</b>		
Address:	No: 60, Avadi-Veltech Road, Chennai-62, Tamil Nadu.		
City:	Chennai	Pin: 600062	State: Tamil Nadu
Website:	<a href="http://www.velhightech.com">www.velhightech.com</a>		

### 2. For Communication:

DESIGNATION	NAME	TELEPHONE WITH STD CODE	MOBILE NO
Principal	Dr.K.Murugesan	O : 044-26840181	9789037651
Vice-Principal	Mr. S. Raju	O : 044-26840181	9994884707
Steering Member	Dr.G.Saravana Kumar	O : 044-26840181	9789634902

DESIGNATION	NAME	FAX	E-MAIL
Principal	Dr.K.Murugesan	044 - 26840181	vhprincipal@velhightech.com
Vice-Principal	Mr. S. Raju	044 - 26840181	viceprincipal@velhightech.com
Steering Member	Dr.G.Saravana Kumar	044 - 26840181	g.saravanakumar@velhighteh.com

### 3. Status of the Institution

Affiliated College

Constituent College

Any Other (Specify):

Refer Annexure-A1,A2, and A3 for Affiliation



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**4. Type of Institution:**

**a. By Gender :**

1. For Men :
2. For woman :
3. Co-education :

**b. By Shift :**

1. Regular :
2. Day :
3. Evening :

**5. Is it a Recognized minority institution?**

YES  NO

If yes specify the minority status (religious/ linguistic/any other) and provide documentry evidence.

**Please refer Annexure-A4**

**6. Sources of Funding :**

- Government Grant-in-aid
- Self- Financing
- Any Other

**7. a. Date of establishment of the Institution:**

DD MM YYYY  
02 08 2002

Please refer **Annexure-A5** proof for establishment of the Institution

**b. University to which The Institution is affiliated / or which governs the Institution (If it is a constituent College)**

Affiliated to ANNA UNIVERSITY, CHENNAI

**c. Details of UGC Recognition :**

Under Section	Date, Month & Year (dd-mm-yyyy)	Remarks(If any)
2 (f)	26/06/2015	-
12 (B)	26/06/2015	-

**Annexure-A6 -2(f) and 12(B) approval**

**d. Details of recognition/ approval by statutory / regularity bodies other than UGC (AICTE, NCTE, MCI,DCI, PCI, RCI etc.)**

RECOGNITION/APPROVAL DETAILS INSTITUTION/DEPARTMENT /PROGRAMME	DAY, MONTH & YEAR (DD-MM- YEAR)	VALIDITY	REMARKS
B.E-Civil Engineering	05-04-2016	One Year Approval	AICTE Ref. No F. No Southern/1-2451469321/2015/EOA
B.E - Computer Science and Engineering	05-04-2016		
B.E - Electronics and Communication Engineering	05-04-2016		
B.E - Electrical and Electronics Engineering	05-04-2016		
B.E - Mechanical Engineering	05-04-2016		
B.Tech - Biotechnology	05-04-2016		
B.Tech - Chemical Engineering	05-04-2016		
B.Tech - Information Technology	05-04-2016		
Master of Business Administration	05-04-2016		
Master of Computer Applications	05-04-2016		
M.E-Structural Engineering	05-04-2016		

(Please refer Annexure –A7 letters for AICTE recognition/approval copy)

**8. Does the affiliating university Act provide for conferment of autonomy (as recognized by the UGC), on its affiliated Colleges?**

Yes  No

If yes, has The Institution applied for availing the autonomous status?

Yes  No

**9. Is the Institution recognized**

**a. By UGC AS A College with Potential for Excellence (CPE)?**

YES  NO

**b. For its performance by any Governmental agency?**

YES  NO

If yes, name the agency:

**10. Location of the campus and area in sq.mts:**

<b>LOCATION*</b>	Rural
<b>CAMPUS AREA IN SQ.MTS.</b>	1,21,648.50 sq.mts
<b>BUILT UP AREA IN SQ.MTS.</b>	29,164 sq.mts

(\*Urban, Semi-urban, Rural, Tribal, Hilly Area, Any others specify)



**Institution's Building**

### **11. Facilities available on the campus**

(Tick the available facility and provide numbers or other details at appropriate places) or in case the institute has an agreement with other agencies in using any of the listed facilities provide information on the facilities covered under the agreement.

**Auditorium / seminar complex with infrastructural facilities**

Infrastructure	Hall No	Built up Area in Sq.m
Albert Einstein Hall	H002	132
Louis Pasteur Hall	H003	132
Thomas Alva Edison hall	G104	183
Kalpana Chawla Hall	K202	132
Charles Babbage Hall	K203	146
Srinivasa Ramanujam Hall	K204	145
Seminar hall 1	K102	132
Seminar hall 2	K103	146
Seminar hall 3	K104	145
Lord Ayyappan Hall	H101	148
Sri Saravana Vel Auditorium	L101	226
Convention Hall	-	2000



**Tutorial Hall**



**Convention Hall**



**Saravana Vel Auditorium – 250 members seating capacity with A/C**



**Seminar Hall 1**



**Seminar Hall 2**



**Lateral view of H Block**

## Sports facilities

PLAY GROUND	GYMNASIUM
<b>Outdoor Games with courts</b>	All hostels are equipped with gym and fitness centre facilities.
1. Basket Ball	1.Body building equipment
2. Volley Ball	2.Treadmill
3. Ball Badminton	3.Exercise bikes and
4. Kabadi ground	4. Latest fitness equipment

\* Fund allotted to physical education 5% of Annual Budget



**Indoor Games Hall**



**Volley Ball Ground**



**Kabadi Ground**



**Basket Ball Court**



**Badminton court**



**Table Tennis**

### Hostel Facilities

HOSTEL	NO. OF ROOMS	NO. OF INMATES	OTHER FACILITIES
Boys hostel	06	330	Dining hall, Cooperative Stores, Reading Hall, TV Hall, Gym, First-aid,
Girls hostel	02	186	Ambulance, Wi-Fi
Working women's hostel	-	-	Internet Facility, Washing Facility, etc.,

### Residential facilities for teaching and non-teaching staff (give numbers available — cadre wise)

TEACHING STAFF		NON-TEACHING STAFF	
Principal	1	Ministerial	6
Professor	5	Programmer/Lab assistant	8
Asst. Professor	21	Attender	6





**Ladies Hostel**



**Boys hostel**



**Gymnasium**

Administrative and Common infrastructural facilities.

Infrastructure	Hall No	Built up Area in Sq.m
Principal Chamber	K005	77
Principal office	K004	99
Parents Waiting Hall	K002	32
Record Room	K008	23
Accounts section	I001	205
Central library	L001	900
NCC Office	H005	37
Canteen	---	100
P.Ed	K009	23
Girls Common Room	G008	200
Boys Common Room	G308	200
Medical Room	F002	50



**Principal Chamber**



**Meeting Hall**



**Girls Common Room**



**Boys Common Room**

### **Cafeteria**

Hygienic and delicious food and light refreshments is available in The Institution canteen. Four private canteens (6 Fat boyz , Happy Days, Hot'n Cool, Friend's Fries), serving vegetarian and Non-vegetarian food are also available in the Institution campus.



**Happy days cafeteria**



**Fat Boyz canteen**

**Health centre**

**First-Aid unit**

- Availability of Ambulance : 01
- Facility in ambulance : Stretcher, B.P apparatus

**Health Centre Staff**

Qualified Doctor : Full Time	<input checked="" type="checkbox"/>	Part Time :	<input type="checkbox"/>
Qualified Nurses : Full Time	<input checked="" type="checkbox"/>	Part Time :	<input type="checkbox"/>

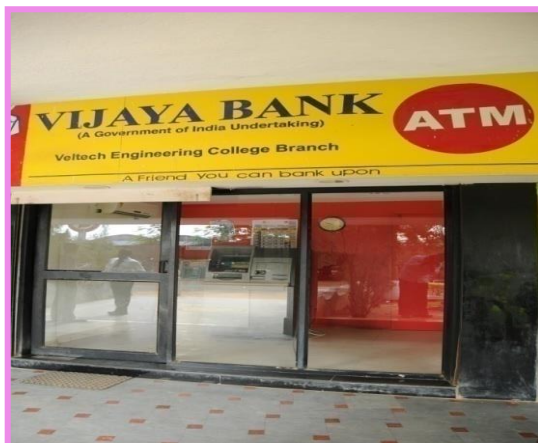
First- aid kit: Available at each department



**Medical Room**

## Bank Facility

**Vijaya Bank, Veltech Branch** operates an extension counter with ATM Facility at College campus.



**Bank ATM**



**Vijaya Bank**

## Post office Facility

The Vellanur post office is located at just  $\frac{1}{2}$  km from the Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College.



**Post Office**

## Transport Facility

The College has 16 buses covering most of the areas in Chennai city and transport the students and Staff at nominal rates. Also 15 MTC buses are available in the morning and evening.



**Bus Facilities**

## Electricity Facilities

24 X 7 Power Backup of 125 KVA & 150 KVA Gensets available.



**Power Back Up (150 KVA)**



**Power Back Up (150 KVA)**

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### Tele communication Facilities

Telecom Lines of 43 line intercom facility available in campus.

Number of EPBX lines - 2 No's, Extn - 32 lines

Mobile phones - 8

Fax - Yes Courier Service - No

### Water Facilities

✓ Total storage capacity: 15000 litres

S.NO	CAPACITY (LITRES)	LOCATION
1	5000	Main block
2	5000	PG block
3	5000	S&H block

- ✓ Underground Sump: 1 No, Back to main block
- ✓ Well – 1 No, 25 ft (inside 180 ft Bore well)
- ✓ Bore well – 1 No, 180 ft
- ✓ 5 hp motor – 2 No's
- ✓ Water coolant unit with direct bore connection – 5 No's

### RO water plant

- ✓ Purifying Capacity: 1300 liters wastage, 1000 liters/hour
- ✓ Membrane – 2 No's
- ✓ Micro filter – 2 No's
- ✓ Storage tank, 5000 liters – 1 No
- ✓ Automatic bubbletop machine, 50 cans/hour filling capacity – 1 No
- ✓ Filter water tank – 1 No

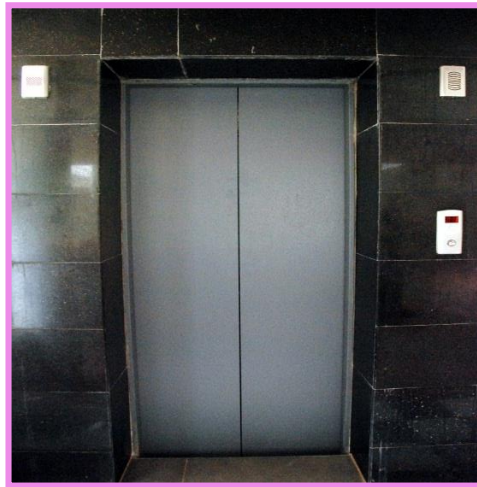
**Security :** dedicated 5 security persons for internal security

### Other Facilities

- ✓ Biological waste disposal
- ✓ Solid waste management facility
- ✓ Waste water management
- ✓ Water harvesting



**Fire Extinguisher**



**Lift**



**Parents/Visitor's waiting Hall**



**Progress Card Section**





**Library-Reading Hall**



**Digital Library**

**12. Details of the programmes offered by the Institution (give data for current academic year)**

S.No	Program me level	Name of the Programme /course	Duration (yrs)	Entry qualification	Medium of instruction	Sanctioned strength	Admitted Strength
1.	Under Graduate	B.E - Civil Engineering	4	HSC (Academic or Vocational)/ Diploma/ B.Sc degree	English	120	116
2.		B.E - Computer Science and Engineering				120	114
3.		B.E - Electronics and Communication Engineering				120	91
4.		B.E - Electrical and Electronics Engineering				60	45
5.		B.E - Mechanical Engineering				120	120
6.		B.Tech - Biotechnology				60	59
7.		B.Tech - Chemical Engineering				30	30
8.		B.Tech - Information				60	50

		Technology				
9.	Post Graduate	Master of Computer Application	3	BCA, B.Sc., (or) B.E/ B.Tech	60	08
10.		Master of Business Administration	2	B.Com, B.A., B.E/ B.Tech, (or) B.Sc.	60	49
11,		M.E - Structural Engineering	2	B.E/ B.Tech	18	18
	TOTAL				828	700

**13. Does the Institution offer self-financed programmes?**

Yes

No

If yes, how many?

8 B.E/ B.Tech , 1-MBA ,1-MCA,1-M.E Courses

**14. New programmes introduced in the Institution during the last five years if any?**

YES

NO

NUMBER

1- M.E (Structural Engineering)

**15. List the departments: (respond if applicable only and do not list facilities like Library, Physical Education as departments, unless they are also offering academic degree awarding programmes. Similarly, do not list the department's offering common compulsory subjects for all the programmes like English, regional languages, etc.)**

Faculty	UG	PG	Research
Science	Not Applicable		
Arts			
Commerce			
AnyOther (Specify)			

**16. Number of Programmes offered under** (Programme means a degree course like BA, BSc, MA, and M.Com...)

- a) Annual System
- b) Semester System
- c) Trimester system

**17. Number of Programmes with**

- a. Choice Based Credit System
- b. Inter/High disciplinary Approach
- c. Any other (specify and provide details)

Semester based Credit (All 11 programmes)

**18. Does the Institution offer UG and / or PG programmes in Teacher Education?**

Yes  No

**19. Does the Institution offer UG or PG programme in Physical Education?**

Yes  No

**20. Number of teaching and non-teaching positions in the Institution**

**\*M-Male\*F-Female**

	TEACHING FACULTY								NON - TEACHING		TECHNICAL STAFF	
	PROFESSOR		ASSOCIATE PROFESSOR		ASSISTANT PROFESSOR		LECTURER					
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Sanctioned by the UGC / University / State Government Recruited	-	-	-	-	-	-	-	-	-	-	-	-
Yet to recruit	-	-	-	-	-	-	-	-	-	-	-	-
Sanctioned by the Management/ society or	16	0	12	3	88	96	0	0	3	7	31	14
Yet to recruit	-	-	-	-	-	-	-	-	-	-	-	-

**21. Qualifications of the Teaching staff:**

HIGHEST QUALIFICATION	PROFESSOR		ASSOCIATE PROFESSOR		ASSISTANT PROFESSOR		LECTURER		TOTAL	
	*M	*F	*M	*F	*M	*F	*M	*F	*M	*F
Permanent teachers - 215										
D.Sc./D.Litt.	-	-	-	-	-	-	-	-		
Ph.D.	16	-	12	2	-	-	-	-	28	02
M.Phil.	0	0	0	0	13	29	-	-	13	29
PG	-	-	-	1	75	67	-	-	75	68
<b>Total:215 (116 Male &amp; 99 Female)</b>										

\*M-Male \*F-Female

**22. Number of Visiting Faculty/ Guest Faculty engaged with the Institution:**

--

**23. Furnish the number of the students admitted to the Institution during the last four academic years.**

CATEGORIES	2015-16		2014-15		2013-14		2012-13	
	M	F	M	F	M	F	M	F
<b>SC</b>	62	42	49	35	34	36	72	45
<b>ST</b>	1	0	0	0	1	1	0	1
<b>OBC</b>	368	195	343	171	379	209	400	218
<b>General</b>	48	26	57	34	92	46	76	37
<b>OTHERS</b>	20	4	17	5	28	0	20	10
<b>TOTAL</b>	<b>499</b>	<b>267</b>	<b>466</b>	<b>245</b>	<b>534</b>	<b>292</b>	<b>568</b>	<b>311</b>

**24. Details on students enrollment in the Institution during the current academic year:**

TYPE OF STUDENTS	UG	PG	M.PHIL.	PH.D.	TOTAL
Students from the same state where the Institution is located	609	101	-	-	710
Students from other states of India	14	3	-	-	17
NRI students	-	-	-	-	-
Foreign students	-	-	-	-	-
<b>Total</b>	623	104	-	-	727

**25. Drop-out rate in UG and PG (average of the last two batches)**

UG  PG

**26. Unit Cost of Education**

*(Unit cost = total annual recurring expenditure (actual) divided by total number of students enrolled)*

(a) Including the salary component

(b) Excluding the salary component

**27. Does the Institution offer any programmes / in distance education mode (DEP)?**

Yes  No

**28. Provide Teacher student ratio for each of the programme / course offered**

S.NO	PROGRAMME	NAME OF THE DEPARTMENTS	TEACHERS STUDENTS RATIO
1	UG	B.E -Civil Engineering	<b>1:15</b>
2		B.E-Computer Science and Engineering	
3		B.E-Electronics and Communication Engineering	
4		B.E-Electrical and Electronics Engineering	
5		B.E-Mechanical Engineering	
6		B.Tech-Biotechnology	
7		B.Tech-Chemical Engineering	
8		B.Tech-Information Technology	
9	PG	M.E - Structural Engineering	<b>1:12</b>
10		Master of Business Administration	<b>1:15</b>
11		Master of Computer Applications	

**29. Is the Institution applying for Accreditation?**

Cycle 1  Cycle 2  Cycle 3  Cycle 4

*(Cycle1 refers to first accreditation and Cycle2, Cycle3 and Cycle4 refer to re- accreditation).*

**30. Date of accreditation\* (applicable for Cycle2, Cycle3, Cycle4 and re-assessment only)**

DETAILS	DATE OF ACCREDITATION	DEPARTMENTS	OUTCOME/RESULT
<b>NOT APPLICABLE</b>			

*\*Kindly enclose copy of accreditation certificate(s) and peer team report(s) as an annexure.*

31. Number of working days during the last academic year. 186

32. Number of teaching days during the last academic year. 158

*(Teaching days means days on which lectures were engaged excluding the examination days)*

33. Date of establishment of Internal Quality Assurance Cell (IQAC)

We have not established IQAC, but however for quality monitoring we had established Internal Quality Assurance System: 16/02/2013

34. Details regarding submission of Annual Quality Assurance Reports (AQAR) to NAAC.

Not Applicable AQAR

(i) ..... (dd/mm/yyyy) AQAR (ii) ..... (dd/mm/yyyy) AQAR

(iii) .....(dd/mm/yyyy) AQAR (iv) .....dd/mm/yyyy) AQAR

35. Any other relevant data (not covered above) the Institution would like to include. (Do not include explanatory / descriptive information)

- ❖ Department of Chemistry, Recognized as a Research Centre by the Anna University, Chennai. (Annexure –A8)
- ❖ ISO 9001:2008 Certified Institution.(Annexure-9)
- ❖ Obtained Permanent affiliation status from the Anna University for Electronics and Communication Engineering, Civil Engineering, Chemical Engineering, Biotechnology, Information technology, and Computer Science and Technology.
- ❖ Grant of about Rs. 15.65 Lakhs sanctioned by AICTE, Govt. of India. (Annexure-A10)
- ❖ Grant of Rs. 25.0 Lakhs Sanctioned by DST, Govt. of India for Civil Engineering and Chemistry. (Annexure-A11)



- ❖ Two Courses (Civil, ECE) has accredited by NBA, New Delhi for the period three years from 2008, re-accreditation applied for civil engineering and Electronics and Communication Engineering and accreditation applied for biotechnology, Computer Science and Technology ,Chemical Engineering, Electrical and Electronics Engineering, Mechanical Engineering, and Information technology departments. (**Annexure-A12**)
- ❖ More than 90% Placement in the last three years.
- ❖ More than 664 papers published / presented in International/ National Journals / Conferences from 2010 to 2015.
- ❖ More than 150 Conferences / Seminars / Workshops / FDPs / Guest Lectures by Industry and Academic Experts from 2010 to 2015.
- ❖ Fully equipped spacious Library with more than 31,515 Books.
- ❖ Member of ICTACT, YRC and NCC.
- ❖ IEEE, ISTE, IETE, CSI, ISOI, ISCA, CSTA, IACST, MISTE and IAENG.SAE INDIA
- ❖ Knowledge Resource Center is established for students to develop their innovative ideas and for reference.

### PROFILE OF THE DEPARTMENTS

CIVIL ENGINEERING					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	Civil Engineering			
2	1 st year of approval by the council	2002			
3	Courses offered	B.E – Civil Engineering			
		M.E- Structural Engineering			
4	University to which affiliated	Anna University, Chennai			
5	Number of teaching post (sanctioned/filled)	Sanctioned : 27 Filled : 29			
6	Number of Technical staff	5			
7	Number of Administrative staff	-			
8	Year-wish Actual admission/sanctioned intake	2015-16	2014-15	2013-14	2012-13
		112	133	138	128
9	% of students passed	-	58.64%	70.29%	84.35%
10	% of students placed	-	25.50%	46.00%	65.62%
11	Number of University Rank holders	-	4	1	3
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	64			
14	Accreditation status (yes/No)	Yes (Applied for Re- Accreditation)			
15	Grants fetched (last 3years)	R&D Grant = 15,65,000/- [AICTE] Conference = 2,00,000/-[AICTE] Seminar = 30,000/-[CSIR]			
16	Professional society Memberships	✓ Indian Society For Technical Education			

		<ul style="list-style-type: none"> <li>✓ Indian Association of Hydrologist</li> <li>✓ Institution of Engineers (India)</li> <li>✓ Indian Association of Air Pollution Control</li> <li>✓ Indian Water Works Association</li> <li>✓ Indian Water Resource Society</li> <li>✓ Indian Association of Public Health Engineering</li> <li>✓ Indian Association of Environmental Management</li> </ul>	
17	Number of national/international seminars (last 5 years)	Organized	National : 7
		Attended	National : 30
18	Number of publication by faculty ( last 5 years)	JOURNALS : 131	CONFERENCE:113
19	Number of book in department library	183	
20	Annual budget (except salary)	Rs. 18,00,000/-	

<b>COMPUTER SCIENCE AND ENGINEERING</b>					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	Computer Science and Engineering			
2	1 st year of approval by the council	2005			
3	Courses offered	B.E - Computer Science and Engineering			
4	University to which affiliated	ANNAUNIVERSITY,CHENNAI			
5	Number of teaching post (sanctioned/filled)	Sanctioned : 24 Filled : 24			
6	Number of Technical staff	4			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		113 /120	91/120	102/120	110/120
9	% of students passed	-	66.08%	70.62%	79.03%
10	% of students placed	85	68%	69%	64%
11	Number of University Rank holders	-	1	-	-
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	25			
14	Accreditation status (yes/No)	No			
15	Grants fetched (last 3years)	Rs.90,000/- (AU Sponsored FDP)			
16	Professional society Memberships	IAENG,CSTA			
17	Number of national/ international seminars (last 3 years)	Organized	National : 1		
		Attended	National: 0		
18	Number of publication by faculty ( last 3 years)	JOURNALS : 87	CONFERENCE:51		
19	Number of book in department library	199			
20	Annual budget (except salary)	Rs. 7,05000/-			

<b>ELECTRONICS AND COMMUNICATION ENGINEERING</b>					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	Electronics and Communication Engineering			
2	1 st year of approval by the council	2002			
3	Courses offered	B.E - ECE			
4	University to which affiliated	Anna University, Chennai			
5	Number of teaching post (sanctioned/filled)	Sanctioned : 24 Filled : 24			
6	Number of Technical staff	4			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		93 /120	75/120	107/120	110/120
9	% of students passed	-	68.3%	90.1%	66.6%
10	% of students placed	42%	37%	17%	43%
11	Number of University Rank holders	-	-	1	1
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	20			
14	Accreditation status (yes/No)	Yes , obtained in year 2008			
15	Grants fetched (last 3years)	NIL			
16	Professional society Memberships	ISTE,IETE, IAENG			
17	Number of national /international seminars (last 3 years)	Organized	National : 5		
		Attended	National :25		
18	Number of publication by faculty ( last 3 years)	JOURNALS : 48	CONFERENCE:35		
19	Number of book in department library	363			
20	Annual budget (except salary)	Rs.1, 31,07,884/-			

<b>DEPARTMENT OF MECHANICAL ENGINEERING</b>					
S.N O	PARTICULAR	DETAILS			
1	Name of the department	Mechanical Engineering			
2	1 st year of approval by the council	2009			
3	Courses offered	B.E. Mechanical Engineering			
4	University to which affiliated	Anna University, Chennai			
5	Number of teaching post	Sanctioned : 24 Filled : 24			
6	Number of Technical staff	6			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		118/120	111/120	118/120	118/120
9	% of students passed	73.9	45.0	84.12	-
10	% of students placed	10.86	5.6	20.63	
11	Number of University Rank holders	-	-	-	-
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	12			
14	Accreditation status (yes/No)	NO			
15	Grants fetched (last 3years)	Rs.75,000/-			
16	Professional society Memberships	SAEINDIA			
17	Number of national /international seminars (last 3 years)	Organized	National : 5		
		Attended	National :125		
18	Number of publication by faculty ( last 3 years)	JOURNALS : 72	CONFERENCE:16		
19	Number of book in department library	225			
20	Annual budget (except salary)	Rs.10,00,000/-			

<b>ELECTRICAL AND ELECTRONICS ENGINEERING</b>					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	Electrical and Electronics Engineering			
2	1 st year of approval by the council	2008			
3	Courses offered	Electrical And Electronics Engineering			
4	University to which affiliated	Anna University, Chennai-25			
5	Number of teaching post (sanctioned/filled)	Sanctioned : 12 Filled : 12			
6	Number of Technical staff	2			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		44/60	34/60	58/60	55/60
9	% of students passed	76.92%	69.44%	90.00%	90.32%
10	% of students placed	31%	17%	16%	20%
11	Number of University Rank holders	-	0	1	0
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	25			
14	Accreditation status (yes/No)	NO			
15	Grants fetched (last 3years)	Rs.28,760/-			
16	Professional society Memberships	✓ The Institution of Electronics and Telecommunication Engineers ✓ International Association of Engineers ✓ Institute for Computer Sciences Social Informatics and Telecommunications Engineering			
17	Number of national /international seminars (last 3 years)	Organized	3		
		Attended	60		
18	Number of publication by faculty ( last 3 years)	JOURNALS : 30		CONFERENCE:20	

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19	Number of book in department library	200
20	Annual budget (except salary)	Rs.11,25,000/-



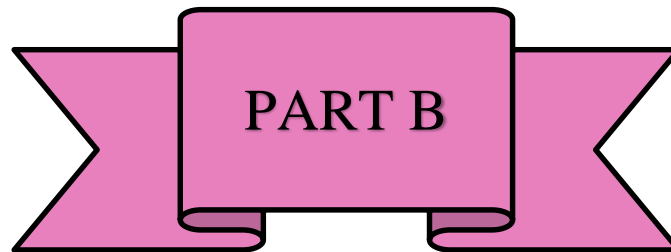
<b>BIOTECHNOLOGY</b>					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	Biotechnology			
2	1 st year of approval by the council	2006			
3	Courses offered	Biotechnology			
4	University to which affiliated	ANNA UNIVERSITY, CHENNAI			
5	Number of teaching post (sanctioned/filled)	Sanctioned : 12      Filled : 12			
6	Number of Technical staff	2			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		50/60	42/60	46/60	50/60
9	% of students passed	-	98%	98%	96%
10	% of students placed	-	22 %	18 %	22%
11	Number of University Rank holders	-	2	2	2
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	49			
14	Accreditation status (yes/No)	No			
15	Grants fetched (last 3years)	RS.15,10,000/-			
16	Professional society Memberships	<ul style="list-style-type: none"> <li>✓ The Indian Science Congress</li> <li>✓ Biotech Research Society of India</li> <li>✓ International association for the engineers</li> </ul>			
17	Number of national/international seminars (last 3 years)	Organized	National : 5		
		Attended	National : 150		
18	Number of publication by faculty ( last 3 years)	Journals : 68	Conference:26		
19	Number of book in department library	256			
20	Annual budget (except salary)	Rs.12,54,000/-			

<b>INFORMATION TECHNOLOGY</b>					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	Information Technology			
2	1 st year of approval by the council	2006			
3	Courses offered	B.TECH (IT)			
4	University to which affiliated	ANNA UNIVERSITY,CHENNAI			
5	Number of teaching post (sanctioned/filled)	Sanctioned : 12 Filled : 12			
6	Number of Technical staff	2			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		52/60	57/60	57/60	58/60
9	% of students passed	-	67.21%	74.24%	72.72%
10	% of students placed	-	50.81%	54.54%	46.96%
11	Number of University Rank holders	-	-	3	1
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	17			
14	Accreditation status (yes/No)	No			
15	Grants fetched (last 3years)	Nil			
16	Professional society Memberships	<b>CSI, IAENG, UACEE</b>			
17	Number of national/international seminars (last 3 years)	Organized	National : 3		
		Attended	National :22		
18	Number of publication by faculty ( last 3 years)	Journals : 24		Conference:15	
19	Number of book in department library	167			
20	Annual budget (except salary)	Rs.11,25,000/-			

CHEMICAL ENGINEERING					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	Chemical Engineering			
2	1 st year of approval by the council	2002			
3	Courses offered	CHEMICAL ENGINEERING			
4	University to which affiliated	ANNA UNIVERSITY, CHENNAI			
5	Number of teaching post (sanctioned/filled)	Sanctioned : 12 Filled : 12			
6	Number of Technical staff	1			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		30/30	29/30	26/30	28/30
9	% of students passed	-	76.4%	86.6%	93.33%
10	% of students placed	-	80%	79%	85%
11	Number of University Rank holders	-	2	2	1
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	19			
14	Accreditation status (yes/No)	No			
15	Grants fetched (last 3years)				
16	Professional society Memberships	<b>IICHE, BRSI, IAENG</b>			
17	Number of national/ international seminars (last 3 years)	Organized	National : 3		
		Attended	National : 20		
18	Number of publication by faculty ( last 3 years)	Journals : 41	Conference: 15		
19	Number of book in department library	130			
20	Annual budget (except salary)	Rs. 16,70,000/-			

<b>MASTERS OF BUSINESS ADMINISTRATION</b>					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	Business Administration			
2	1 st year of approval by the council	2006			
3	Courses offered	MBA			
4	University to which affiliated	ANNA UNIVERSITY,CHENNAI			
5	Number of teaching post	Sanctioned : 8		Filled : 8	
6	Number of Technical staff	NIL			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		45/60	48/60	56/60	51/60
9	% of students passed		87.5%	100%	100%
10	% of students placed		62.4%	70%	
11	Number of University Rank holders	1	1	1	1
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	5			
14	Accreditation status (yes/No)	No			
15	Grants fetched (last 3years)				
16	Professional society Memberships	<b>MMA</b>			
17	Number of national/international seminars (last 3 years)	Organized	National : 3		
		Attended	National :3		
18	Number of publication by faculty ( last 3 years)	Journals : 20		Conference:18	
19	Number of book in department library	226			
20	Annual budget (except salary)	Rs. 3,30,000/-			

<b>MASTERS OF COMPUTER APPLICATIONS</b>					
S.NO	PARTICULAR	DETAILS			
1	Name of the department	MCA			
2	1 st year of approval by the council	2007			
3	Courses offered	Master of Computer Applications			
4	University to which affiliated	ANNA UNIVERSITY, CHENNAI			
5	Number of teaching post (sanctioned/filled)	Sanctioned : 12 Filled : 12			
6	Number of Technical staff	2			
7	Number of Administrative staff	1			
8	Year-wish Actual admission/sanctioned intake	<b>2015-16</b>	<b>2014-15</b>	<b>2013-14</b>	<b>2012-13</b>
		2/60	8/60	9/60	32/60
9	% of students passed	-	100%	100%	100%
10	% of students placed	-	71%	83%	70%
11	Number of University Rank holders	-	1	0	4
12	Staff : Student ratio	1:15	1:15	1:15	1:15
13	Number of students opted for higher studies	4			
14	Accreditation status (yes/No)	No			
15	Grants fetched (last 3years)	-			
16	Professional society Memberships	<b>IAENG</b>			
17	Number of national/international seminars (last 3 years)	Organized	National : 3		
		Attended	National :30		
18	Number of publication by faculty ( last 3 years)	Journals : 45	Conference:10		
19	Number of book in department library	172			
20	Annual budget (except salary)	Rs. 1,76,000/-			



CRITERIA-WISE ANALYTICAL REPORT

## CRITERION I: CURRICULAR ASPECTS

### 1.1. Curriculum Planning and Implementation

1.1.1. State the vision, mission and objectives of the institution, and describe how these are communicated to the students, teachers, staff and other stakeholders.

#### **Vision**

Pursuit of excellence in technical education to create civic responsibility with competency.

#### **Mission**

- ✓ To impart the attributes of global engineers to face industrial challenges with social relevance.
- ✓ To indoctrinate as front runners through moral practices.
- ✓ To attain the skills through lifelong learning.

#### **The quality policy**

The quality policy of our Institution is to nurture excellence in everything. Excellence blended with the supreme virtues of life such as Honesty, Integrity, Hard work, Politeness, Purity of soul and total dedication to the purpose

#### **Objectives:**

- ❖ To equip students with essential career development skills for adopting premier technologies.
- ❖ To get more research related activities towards obtaining more institutional patents
- ❖ To develop an interface with the representatives of collaborating

- ❖ Universities, academic institutions and industries
- ❖ To create a rapport with the leading national and international companies for placement and career growth of the students.
- ❖ To provide quality education to the various sectors of society.
- ❖ To bring the world inside the campus and also make students think out of box.
- ❖ To ensure that all the students admitted in this institute are qualified in the University examinations.
- ❖ To provide placement to all the eligible students.
- ❖ To improve the leadership ability of the students, thereby grooming them as successful entrepreneur.
- ❖ To make students involve in social awareness activities.

#### List to Internal Stakeholders

S. no	Stake holders	Mode of communication
1	Students	Practical Records, College website, Weekly Schedules, Project work books, Sign boards, Student induction program, Student awareness workshops.
2	Alumni	College website, E-mail signatures, feedback forms, Signboards
3	Faculty members	College website, E-mail signatures, Signboards, Faculty meetings.



### List of External Stakeholders

S. no	Stake holders	Mode of communication
1	Parents	Student record notes, Interaction with faculty, College website, Parents feedback forms, Parents meeting.
2	Industry experts	College website, Interaction with students and faculty, E-mail signatures, feedback Forms.
3	Academic experts	College website, Interaction with students and faculty, E-mail signatures, feedback Forms,

- ❖ The vision and mission statement of the Institution is uploaded in the Institution website.
- ❖ The Institution's mission and vision are displayed at the Institution Office, Principal's office, Vice Principal's office and HOD's cabins in all the departments.
- ❖ It is communicated to the students through College academic calendar.

**1.1.2 How does the institution develop and deploy action plans for effective implementation of the curriculum? Give details of the process and substantiate through specific example(s).**

Description of structure of Curriculum for effective implementation

Course code	Course title	Total number of contact hours				Credits
		Lecturers	Tutorials	Practical#	Total Hours	
.....	.....					
Total						

- ❖ Various internship programmes, are organized by the Institution for the students.
- ❖ Principal organizes meetings with all the HODs to develop various strategies for effective implementation of the curriculum framed by Anna University.
- ❖ Faculty are encouraged to impart the curriculum through innovative teaching methods such as multimedia presentations, assignments, workshops, seminars, industrial visits, etc apart from the regular teaching methods.
- ❖ The heads of the departments conduct meetings with the teaching staff members and develop academic plans for the next semester. The syllabi which are to be covered within the given period are decided by the HODs based on the number of working days available.
- ❖ Lesson plans and course files are maintained by each Faculty for the particular subjects allotted, which is reviewed on continuous basis by the HODs and the Principal.
- ❖ The Academic Committee plans the academic schedule as per the University calendar which includes details like the portions to be taught and number of working days allocated to the respective units, the quantum of syllabus to be completed in various classes, conducting periodic tests and semester end examinations.
- ❖ Students with good attendance and academic record are recognized by the class coordinators, student counselors and HODs. Students 'performance, their performance evaluation and attendance details are frequently conveyed to the parents.
- ❖ Parents of non-performing students are called for a meeting. The students are counseled in the presence of their parents. If any

lacuna is identified, corrective measures are taken with the consent of the respective parents.

The process and evidence of Civil Department for implementing the action plan for curriculum.

Course code	Course title	Total number of contact hours				Credits
		Lecturers	Tutorials	Practical#	Total Hours	
HS2111	Technical English -I	45.00	15.00	0.00	60.00	4.00
MA2111	Mathematics – I	45.00	15.00	0.00	60.00	4.00
PH2111	Engineering Physics - I	45.00	0.00	0.00	45.00	3.00
CY2111	Engineering Chemistry - I	45.00	0.00	0.00	45.00	3.00
GE2111	Engineering Graphics	30.00	45.00	0.00	75.00	5.00
GE2112	Fundamentals of Computing and Programming	45.00	0.00	0.00	45.00	3.00
GE2115	Computer Practices Laboratory – I	0.00	0.00	45.00	45.00	2.0
.....	....	Will be continued..,				

### Structure of Course File in curriculum delivery process

S.No	Index
1	Syllabus copy
2	Programme Education Objectives(PEOs)
3	Academic calendar and Course time table
4	Lecture notes
5	Question papers of Internal Examination Tests
6	Anna University question papers of present and previous two years

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7	Attendance register(s)
8	Results and analysis
9	Programme Outcomes (POs)
10	Mapping of POs and PEOs
11	Mapping of course Outcomes and POs
12	Students feedback

**1.1.3. What type of support (procedural and practical) do the teachers receive (from the University and/or institution) for effectively translating the curriculum and improving teaching practices?**

- ❖ The curriculum designed by Anna University, Chennai to which the Institution is affiliated, is communicated to the students
- ❖ Being an affiliated institution we are always in tune with the most modern trends in education and guiding principles. Anna University frequently organizes Faculty development programmes, refresher courses, orientation programs and workshops to develop the potentials and the teaching skills of the teachers.
- ❖ Anna University organizes a programme called EDUSAT (Education through satellite) where students of various Colleges could listen and see the lectures taken by Anna university professors through satellite transmission.
- ❖ Further, the Institution encourages the teachers to take part in the FDP's/ Orientation Courses/ Refresher Courses/ Workshops/ Seminars organized by the affiliating University and other reputed institutions to update their knowledge and to improve their teaching practices.
- ❖ The Institution offers books, other teaching and reference materials like Magazines, online Journals, CDs, Teaching Models

and Multimedia, hardware and software to facilitate its teachers to ensure effective delivery of curriculum. Most of the departments arrange different Faculty development programs, conferences, workshops, seminars for the benefit of staff members to update their knowledge with the most recent emerging trends.

- ❖ Institute encourages the faculty to deliver the curriculum via ICT tools.

**1.1.4. Specify the initiatives taken up or contribution made by the institution for effective curriculum delivery and transaction on the Curriculum provided by the affiliating University or other statutory agency.**

- ❖ The Institution relies on the globally trusted concepts and follows the teaching strategy. However, initiatives have been taken for the effectual delivery of the curriculum.
- ❖ Well planned academic calendar with required instructions are given at the commencement of the semester with all norms and assessment schemes.
- ❖ Providing class notes, Lab manuals, Question banks, Model question papers, transparency in assessment are the key factors. Slow learners are given special consideration by conducting extra coaching for each subject.
- ❖ The Institution faculty are trained to use the modern teaching aids such as LCD projectors, Internet, OHP's and online library, etc. to enhance their class room lectures. All the staff members are well adapted to teach using modern teaching resources like NPTEL, digital library, etc.
- ❖ Class committee is constituted by Head of the Department comprises of Chairperson, Class advisor as the coordinator and four students

[two boys and two girls]. The Class committee is convened by the chair person in the presence of head of the department. The student members are encouraged to express their feed back on course delivery and amenities. The feedback views are consolidated /analyzed and apt course of measures are initiated.

- ❖ In addition to the subject classes, The Institution also conducts special lectures by inviting resource person from various fields to share their knowledge and experiences with the students. The Institution also organizes special Personality Development Programs for its students.
- ❖ The placement department organizes campus recruitment training programs for all students and intensive training to pre-final and final year students.
- ❖ The students are also taken out for educational tours such as industries/trade fairs, exhibitions and places of technical importance to afford them a firsthand knowledge of different engineering aspects.
- ❖ Students also participate in various internship programmes, industry/research oriented projects.
- ❖ College brings some industry and academic experts for guest lectures to overcome the curriculum gap topics, and to review fourth year projects. MSME is providing hands on training to final year projects for students through consulting with SIDCO industries.

**1.1.5. How does the institution network and interact with beneficiaries such as industry, Research bodies and the university in effective operation of the curriculum?**

Our institute maintains a good rapport with industry, research bodies and the university by making as members in The Governing Body of the Institution.

**Industry**

- ❖ The Institution has set up a Training & Placement cell which bridges the professional relations with the representatives of industries.
- ❖ The curriculum is sent to industry experts for identifying the curricular gaps to the industrial needs of present senerio.
- ❖ The industrial experts of different companies are invited to The Institution campus to intract about the recent trends and industry requirements.
- ❖ The students of different departments of The Institution are taken for industrial visits and SDP's to bridge the curricular gaps.

**Research Bodies**

- ❖ Faculty members engage regular interaction with different research bodies such as CSIR, DST etc., and the researchers will provide scope of research associated with the curriculum.
- ❖ Various scientists from research bodies are called to institution to share their views and measures on bridging the currisular gaps on promoting the researching activities.
- ❖ To promote research activities in the campus, scientists from different fields are invited to the Institution to motivate the students via workshops and guest lecturers.

## **University**

- ❖ The Faculty members of the Institution keep in touch with reputed Universities to acquire the latest information about the academic and research trends in curriculum.
- ❖ Faculty from various universities invited to the Institution to deliver guest lecturers for bridging the curricular gaps.
- ❖ The faculty members provide “content beyond the syllabus” by conducting additional curricular classes and laboratory experiments.

### **1.1.6. What are the contributions of the institution and/or its staff members to the development of the curriculum by the University?(number of staff members/departments represented on the Board of Studies, student feedback, teacher feedback, stakeholder feedback provided, specific suggestions etc.**

- ❖ Principal discusses with respective HODs and Stake holders regarding curriculum development meeting. Though he has no provision to modify the syllabus on his own, the affiliating university has a system in place to get recommendations from its affiliated Colleges through Board of Studies. Some value added courses will be given to students to meet industry requirements.
- ❖ The members of the faculty brainstorm and discuss amongst themselves the relevance of the syllabus designed by the affiliating university.
- ❖ While recommending or forwarding the suggestions to the Board of Studies our teachers normally take into consideration the feedback of students and the faculty members of various departments as well.
- ❖ The class committee meetings held periodically enable the students to express their difficulties, their expectations etc., which are then



conveyed to the members after due consultations with the concerned faculty Outcome of parent-teacher meetings as well as report from the administration is also taken into consideration while forwarding suggestions to the Principal.

**1.1.7. Does the institution develop curriculum for any of the courses offered (other than those under the purview of the affiliating university) by it? If 'yes', give details on the process ('Needs Assessment', design, development and planning) and the courses for which the curriculum has been developed.**

No, Only Anna University is the affiliating body to design and develop the curriculum.

**1.1.8. How does institution analyze/ensure that the stated objectives of curriculum are achieved in the course of implementation?**

- ❖ Once the academic session is in full swing all the action plans are being followed; The Institution at different points takes stock of the effectiveness of the action plans.
- ❖ The Institution guarantees that during the course of implementation, the stated objectives of the curriculum are achieved.
- ❖ Different class tests and periodic exams are conducted to monitor the effective delivery of the syllabus. Systematic documentation is maintained to evaluate the outcomes of the curriculum.
- ❖ The Institution follows student mentorship programme in which 20 students of each class are mentored by one Faculty member. He/She will be responsible to provide information about his/her marks and attendance to their parents on a monthly basis. Also counseling is done for a needy student on a continuous basis.

- ❖ Periodic ISO audits also help in analyzing the status quo of the achievements pertaining to the objectives of curriculum. NBA accreditation of the programs guarantees the achievement of the curriculum objectives.

**The institute follows the objectives to be achieved by the students in following ways:**

- ❖ By giving oral tests, unit tests and assignments to analyze whether the students have understood the concept or not.
- ❖ By conducting Group Discussions between students to ensure the comprehend knowledge developed.
- ❖ By analyzing the effectiveness of students in laboratories, mini projects and final year projects.
- ❖ By taking feedback from students on course outcomes, faculty and content delivery.
- ❖ By taking exit feedback from the final year students on the theory and practical of Anna University Curriculum.

**Example Department of Civil Engineering.**

**Programme Educational Objectives**

PEO: 1-Graduates might invoke core knowledge acquired from program to contribute as competent technical professions at entry level / middle level in an Organization.

PEO:2-Graduates might evolve to possessing specialized domain knowledge through higher education

PEO: 3-Graduates might utilize best practices bestowed by the program to excel as comprehensive entrepreneurs.

### Programme Outcomes:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
2. **Problem analysis:** Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
5. **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
7. **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental

contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
9. **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
10. **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
12. **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

### Example of civil department CO-PO Matrix

#### SEM 3: MECHANICS OF SOLIDS- Course Outcome's

<b>C204.1</b>	Thorough understanding of the fundamental concepts of stress and strain in mechanics of solids and structures.
<b>C204.2</b>	The ability to analyse determinate beams and trusses to determine shear forces, bending moments and axial forces.
<b>C204.3</b>	A sufficient knowledge in designing shafts to transmit required power and also springs for its maximum energy storage capacities.

### CO-PO Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
C204.1	3	3	3	3	3	2	1	3	-	3	2	3
C204.2	3	3	3	3	3	3	2	3	2	3	3	3
C204.3	3	3	3	3	3	3	1	2	1	3	2	2

### SEM 4: APPLIED HYDRAULICS ENGINEERING

C213.1	The students will be able to apply their knowledge of fluid mechanics in addressing problems in open channels.
C213.2	They will possess the skills to solve problems in uniform, gradually and rapidly varied flows in steady state conditions
C213.3	They will have knowledge in hydraulic machineries (pumps and turbines).

### CO-PO Matrix

CO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO 10	PO11	PO12
C213.1	3	3	3	3	3	3	-	1	-	2	1	3
C213.2	3	3	3	3	3	3	-	1	-	2	1	3
C213.3	3	3	3	3	2	3	-	1	-	2	1	1

## 1.2. Academic Flexibility

### 1.2.1. Specifying the goals and objectives give details of the certificate/diploma/ skill development courses etc., offered by the institution.

Apart from the regular courses recommended by Anna University, Chennai, the Institution also offers certain value added certificate courses and training to enhance employment opportunities for students.

These are

- ESOL Examinations (BEC) University of Cambridge, UK.
- Microsoft Innovative Center at Campus to expose the students in the latest technologies.
- Cloud computing
- GATE Exam Preparation

- e. Aptitude training
- f. Soft skills and communication skill development
  - ❖ Microsoft Innovative Center at Campus to expose the students in the latest technologies.
  - ❖ Skill development program was conducted regularly for teaching staff on topics such as teaching methodology and Research methodology.
  - ❖ For non-teaching staff workshop on Electrical safety, Fire safety, UPS maintenance, and MS -office automation etc are conducted

**1.2.2. Does the institution offer programme that facilitate twining / Dual degree? If “yes” give details.**

No.

**1.2.3 Give details on the various institutional provisions with reference to academic flexibility and how it has been helpful to students in terms of skills development, academic mobility, progression to higher studies and improved potential for employability**

- ❖ Range of Core / Elective options offered by the University and those opted by the Institution
- ❖ Semester Based Credit System examinations.
- ❖ Pursuing projects in Industrial houses.
- ❖ In Plant training, Internship programs.

**Enrichment courses**

- ❖ The Institution follows the academic programmes/ courses offered by Anna University.

- ❖ As per interest students of final years of B.E/B.Tech, MCA and MBA and first of M.E can choose elective subject form given university subjects.
- ❖ This enables the students to pursue their passion and also choose the subjects that are important from the industries perspective.

#### **Progression to higher studies**

- ❖ Our institute will provides in-house PG graduation classes for students of their interest.

#### **1.2.4. Does the institution offer self-financed programme? If 'yes', list them and indicate how they differ from other programme, with reference to admission, curriculum, fee structure, teacher qualification, salary etc.**

Yes, All programmes offered by College are under self-financing scheme and the Institution is self-financing.

#### **Admissions:**

- ❖ All admissions will be done by the guidelines prescribed Government of Tamil Nadu Anna University and by self-financing consortium Tamilnadu.
- ❖ Councelling Procedure



- ❖ <https://www.annauniv.edu/tnea2016/>

#### **Curriculum:**

- ❖ Anna University prescribed curriculum is strictly implemented, and beyond the curriculum institute provides some guest lecturers and workshops for student's benefits.
- ❖ [https://www.annauniv.edu/academic\\_courses/curr\\_aff.html](https://www.annauniv.edu/academic_courses/curr_aff.html)

### **Fee Structure:**

- ❖ Government of Tamil Nadu approved Fees will be charged from students. Fees structure details will be published in institutional website.
- ❖ [http://www.velhightech.com/admission\\_fees\\_structure.htm](http://www.velhightech.com/admission_fees_structure.htm)

### **Faculty Qualifications and Salary**

- ❖ AICTE prescribed faculty qualification is mandatory for appointing faculty in our institution and VI<sup>th</sup> pay scales salary will be given to all faculty members.
- ❖ <http://www.velhightech.com/manddisc.htm>

### **1.2.5. Does the Institution provide additional skill oriented programme relevant to regional and global employment markets? If 'yes' provide details of such programme and the beneficiaries.**

YES, our institute offers personality development and employability Skills Training programs for all students.

- ❖ The Placement and training cell of the Institution is conducting regular classes to acquire skills on communicative English and aptitude etc.
- ❖ In addition to this, different programmes are organized by the external agencies and professional bodies.
- ❖ Our institution regularly conducts personality development programs for developing IQ level and communication skills.
- ❖ Our institution arranges academic and industrial experts to provide regional and global opportunities for the students.
- ❖ Our institution provides coaching classes for ON/OFF campus recruitment drive to attend the interviews for students.



- ❖ In addition to this, our institution provides various Inplant Training programs from TNEB, ISRO etc.,

**1.2.6 Does the University provide for the flexibility of combining the conventional face-to- face and Distance Mode of Education for students to choose the courses/combination of their choice" If 'yes', how does the institution take advantage of such provision for the benefit of students?**

No.

### **1.3. Curriculum Enrichment**

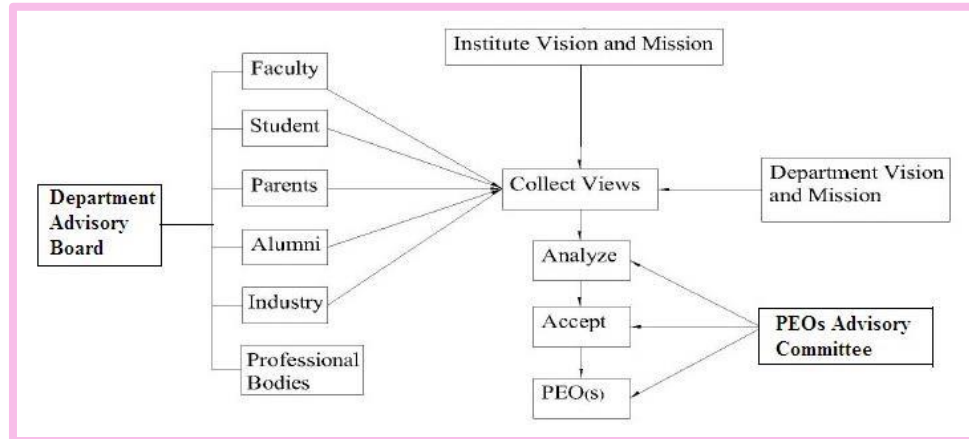
**1.3.1. Describe the efforts made by the institution to supplement the University's Curriculum to ensure that the academic programme and Institution's goals and objectives are integrated?**

Yes.

The following efforts are taken by our institution to supplement Anna University curriculum:

- ❖ Governing Council meeting will be conducted once in a year to review the academic progress, initiatives required to improve the institution's functionality.
- ❖ The institution encourages and provides various co-curricular activities and extra-curricular activities to students through various students' chapters of professional societies such as IETE, CSI, ISA, IEEE, etc.
- ❖ Further, the institution's goal and objectives are integrated with academic programmes through the regular industry oriented programmes, guest lectures, value added programs, seminars and industrial visits.
- ❖ Additional lab experiments are conducted according to industry needs.

- ❖ Students are encouraged to do in-house mini and major projects.
- ❖ Students are encouraged to read Research Articles/Journals to develop and update the technological advancements.



Flow chart of defining PEOs of the Department of Civil Engineering

**1.3.2. What are the efforts made by the institution to modify, enrich and organize the curriculum to explicitly reflect the experiences of the students and cater to needs of the dynamic employment market?**

Being an Affiliating College, our institution adheres to complete the syllabus framed by Anna University. Within specific time period as mandated by the Anna University, the institute is supposed to deliver the syllabus and to conduct mid-term exams and final exams as per the academic schedule published by the university. However, the value added courses, industrial visits and interactions, academic expert lectures, Science Exhibition, KRC etc., helps in enriching the curriculum to our students.

### **1.3.3 Enumerate the efforts made by the institution to integrate the cross cutting issues such as Gender, Climate Change, Environmental Education, Human Rights, ICT etc., into the curriculum?**

The following efforts are made by the institution to integrate the cross cutting issues such as gender, climate change, Environmental Education, Human Rights, ICT etc., into the curriculum

#### **Our Institution:**

- ❖ Provides awareness on environmental issues and build up moral and ethical values among the student community.
- ❖ Has Environmental Cell that organises awareness programmes for the students.
- ❖ Group Discussions are done on curricular topics with boys and girls.
- ❖ Special classes on the environmental issues are conducted to students in continuation of environmental science
- ❖ Provides awareness workshops on societal issues, human rights, and climate change and gender equivalence in/out.
- ❖ Helps the girls and boys to participate in various academic, co-curricular and extra-curricular activities.
- ❖ Has women empowerment cell to encourage and to overcome from problems of girl students and female faculty in/out of institution.

### **1.3.4 What are the various value-added courses/enrichment programme offered to ensure holistic development of students?**

- ✓ moral and ethical values
- ✓ employable and life skills
- ✓ community orientation program
- ✓ Professional Ethics for students of all programmes

- ❖ In the preparation of students for challenging global affairs in addition to academic development, our institution gives utmost importance to physical, mental and emotional well-being of the students.
- ❖ In order to develop the students in employability skills our institution provides special programs for English Comprehensive and Group discussions.
- ❖ Our institution organises sports and games competitions for all the students at College level. In order to promote their physical well-being institution provides evening sections with PE.D staff.
- ❖ In our institution one faculty is assigned for about 20 students for academic and co-curricular activities. Mentor will council the students in discipline and to develop moral and ethical values.
- ❖ Our institution has NCC wing, where they regularly visits nearby rural areas and organize camps for personal health, environmental, clean and green, fire safety awareness and blood donation camp etc.,

### **1.3.5 Citing a few examples enumerate on the extent of use of the feedback from stakeholders in enriching the curriculum?**

Until now, enrichment of curriculum has done based on the feedback and suggestions notified from the internal and external stakeholders and from industries where students visited during industrial visits

Examples:

- ❖ Additional topics have been added as guest lecturers and special classes are conducted to fill the gap between present industrial scenario and curriculum.

- ❖ Based on feedback of stakeholders on laboratories curriculum, additional experiments are made to be done for students by faculty, industrial, and academic experts.
- ❖ Java and Dot Net course classes will be conducted to students, in order to enrich the students in software skills and in placement drive.
- ❖ CAD/CAM lab course for Mechanical and Civil students has been done on the suggestions from the students & the placement cell.
- ❖ Special training provided by placement and training cell in order to develop english comprehensive, aptitude and soft skills from 2nd year onwards.

#### **An Example of Civil Department effort made to enrich the curriculum**

1. A feedback is collected from the stakeholders (parents and industry) to analyze through Departement Advisory Board (DAB) on curriculum.
2. Upon analysis on the feedback, stakeholders opted to include “A Course on CAD/CAM” as an enrichment course and found it as more employabe.
3. This made the faculty to conduct some labs on CAD/CAM to Civil students.

#### **1.3.6 How does the institution monitor and evaluate the quality of its enrichment programme?**

##### **Monitor**

- ❖ The institute is always in the process of enriching the students through feedback collection and analysis from stakeholders.
- ❖ Feedback report is collected through placement cell form industries on current trends and requirements.

## **Evaluate**

- ❖ Inviting experts to institution for conducting special classes and labs in each discipline to enrich the student to understand the industry environment.
- ❖ Encouraging students to conduct laboratory experiments in additional sessions.
- ❖ Placement and training cell will continuously conduct tests department wise in order to evaluate the performance of the students in English language and soft skills.

## **14.Feedback System**

### **14.1. What are the contributions of the institution in the design and development of the Curriculum prepared by the University?**

- ❖ Our institution is affiliated to Anna University, Chennai. The University revises the curriculum syllabus for every four years.
- ❖ Being an affiliated institution there is no scope for framing institution curriculum by its own, however based on feedback from the stake holders, the recommendations will be sent to Anna University during inspection and some carrier development courses will be done as per student community requests. Faculty will attend FDP's regularly in/off campus.

### **14.2. Is there a formal mechanism to obtain feedback from students and stakeholders on Curriculum? If 'yes', how is it communicated to the University and made use internally for curriculum enrichment and introducing changes/new programme?**

Yes. Our institute has an established system of collecting feedback on curriculum.

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**Students:**

- ❖ HOD's will conduct the class committee meetings periodically to discuss on academic affairs.
- ❖ Any suggestions explored by the students are noticed and the same will communicated to the principal.

**Alumni and Parents:**

- ❖ From alumni constructive suggestions will be notified and as per their advice training classes will be conducted to students. Apart of alumni parents meeting will be conducted every semester and any difficulties and suggestions raised from them will be forwarded to principal

**Employers/ Industries:**

- ❖ Representatives of various industries and other research bodies give useful feedback regarding the employability of the students and also their expectation from the students.

<b>Stake Holders</b>	<b>Period of collecting feed back</b>	<b>Feedback analysis and action taken Communicated to University/Principal</b>
<b>Students</b>	Twice in a semester	With in a week
<b>Alumni and Parents</b>	Once in a year	With in a month
<b>Employers/Industries</b>	Twice in a year	With in 15 days.

**1.4.3 How many new programs introduces last four years what was the rationale for introducing new carrier program**

M.E-Structural Engineering-2011-12

Availability of Sturctural Engineering course is very rare in surrounding Districts. Many young people from rural areas, Chennai city, and Thiruvallur district has enquired about the Structural Engineering course, and also it is rare branch with more employability intend to study PG.ME structural Engineering for civil Engineering Students in the Institution. So the institution decided to introduce P.G. programs for the benefit of the students.



## **CRITERION II: TEACHING - LEARNING AND EVALUATION**

### **2.1 Student Enrollment and Profile**

#### **2.1.1 How does the Institute ensure publicity and transparency in the admission process?**

##### **Publicity and Transparency**

The Institution is affiliated to Anna University, Chennai. The institution is Telugu linguistic minority, only 50% of seats can be filled by institute through Tamilnadu Self Financing Consortium. The admission of students is done as per the norms laid by the Government of Tamil Nadu. The admission of students under Government quota (50%) is carried out by Directorate of Technical Education, Tamilnadu through single window counseling process. Both types are based on the reservation policy of the Government of Tamilnadu, including lateral entry scheme (direct second year).

- ❖ The mandatory disclosure details consisting of types of programmes/courses offered, approved intake, Fee structure, hostel and transport facility are made available in the Institution website.
- ❖ Brochures are printed and distributed to students and also kept in the Institution admission office for visitors.
- ❖ On behalf of “Tamilnadu Engineering Admission (TNEA), by DOTE, a separate information booklet is printed and issued to all students aspiring for engineering education in the state. All the above mentioned details are available in the booklet.
- ❖ The current students and alumni of the Institution are provided the admission broucher as they are real ambassadors to provide enough publicity and transparency in the admission process.
- ❖ Major competitive exams like UPSC, RRB, and Microsoft will be conducted in our institution, by the time we will distribute the

Institution admission brochures in order to make the name of institution.

**2.1.2 Explain in detail the criteria adopted and process of admission (Ex. (i) merit (ii) common admission test conducted by state agencies and national agencies (iii) combination of merit and entrance test or merit, entrance test and interview (iv) any other to various programmes of the Institution.**

**Process of admission to UG programmes**

- ❖ Under the government quota, the admission process is usually announced and the process is usually assigned to Anna University, Chennai. The University announces the process in the leading newspapers at the appropriate time and calls for applications.
- ❖ The received applications will be processed and based on merit cut-off marks (proportion of Maths-100, Physics-50 and Chemistry-50); the applicants will be called for single window counseling by TNEA.
- ❖ The students who opt for a particular College to a specific discipline will be awarded with a selection order. These students will be given admission in the Institution, after verifying relevant certificates.
- ❖ Under the management quota, students who come to College are fed with all necessary input about the Institution, courses and infrastructural facilities and taken for College and Hostel visit.
- ❖ If they submit the application for admission, it is processed based on cut-off marks and admission is confirmed after verification of educational and community certificates.

### Process of admission to PG programmes

- ❖ Under the government quota, the admission process is usually announced and the process is usually assigned to Anna University, Chennai. 70% is filled by Anna University through counseling of TANCET. 30% management quota is filled by the management based on consortium entrance exam performance. While applying for PG programmes under management quota candidates are ensured to have minimum of 75%.
- i) As per Norms laid by Government of Tamilnadu 50% of marks are minimum to qualify for Engineering Admission. For SC/ST Candidates minimum 35% of marks are eligible to enroll Engineering Course.
- ii) The institution allocated 5% of management seats for disabled students and 10% for economically weaker sections.

**2.1.3 Give the minimum and maximum percentage of marks for admission at entry level for each of the programme offered by The Institution and provide a comparison with other Colleges of the affiliating university within the city/district.**

Programme	ADMITTED THROUGH AU COUNSELING		ADMITTED THROUGH MGMT	
	MAX.MARKS %	MIN.MARKS %	MAX.MARKS %	MIN.MARKS %
B.E. CIVIL	92.83	52.83	86	46.50
B.E. CSE	92.33	68	99.33	48.33
B.E. ECE	94.17	49.33	95.17	53.00
B.E. EEE	90.00	67.33	77.83	58.00
B.E. MECH	93.17	50.00	84.00	45.00

B.TECH BIOTECH	<b>96</b>	<b>73</b>	<b>93</b>	<b>52.33</b>
B.TECH CHEMICAL	<b>95</b>	<b>84.83</b>	<b>97.83</b>	<b>61.00</b>
B.Tech IT	<b>91.83</b>	<b>64.50</b>	<b>67.17</b>	<b>44.33</b>
MBA	<b>86.85</b>	<b>74.69</b>	<b>73.16</b>	<b>49.77</b>
MCA	<b>79.18</b>	<b>54.86</b>	<b>80.82</b>	<b>56.65</b>
M.E- Structural Engg	<b>82.85</b>	<b>77.03</b>	<b>88.66</b>	<b>64.08</b>

In present scenario, students and parents are deciding to opt popular core branches like Mechanical and Civil engineering instead of opting for application oriented courses. As our institute is located in rural area, though providing bus facility from inner parts of city, parents are likely to choose nearest Colleges. As a result, students' admission is varying every year.

**2.1.4 Is there a mechanism in the institution to review the admission process and student profiles annually? If “yes”, what is the outcome of such an effort and how has it contributed to the improvement?**

Yes.

**Mechanism in the institution to review the admission process**

The process of scrutinizing the student's data base will be done after collecting data from Anna University TNEA counselling, and from self-financing consortium for management students. On every year before commencement of semester classes all freshers will be called to the institution on “Induction Day” to get their data base and interests , weak areas etc., The details of the first year students are entered in the database according to the following:

Gender: state board/ CBSE, Boys/Girls/Transgender

Marks: 60 to 70/ 70 to 80/80 to 90/ 90 to100

Category: General quota / BC/MBC/SC/ST

Medium of instruction: English/ Tamil/ Telugu/ Kannada/  
Malayalam/ Hindi/ others

#### **Outcome of reviews**

- ❖ A committee of faculty members from every department will look into the data base of students to analyze.
- ❖ Arranging freshers course for students

#### **Contributions of reviews to the improvement of the admission process**

- ❖ In circuit branches the girls ratio is higher when compared to core branches; boys ratio is much higher in civil and mechanical branches may be due to job availability.
- ❖ Analysis of students' database of current academic year will make the institution easy to advertise for next academic year.
- ❖ Scrutinizing the students' database will make easier to create additional infrastructure for boys and girls in hostels and in the institution.

#### **2.1.5 Reflecting on the strategies adopted to increase/improve access for following categories of students, enumerate on how the admission policy of the institution and its student profiles demonstrate/reflect the National commitment to diversity and inclusion**

Admission policy of the Institution and its student profiles reflect the National commitment to diversity and inclusion in the following ways:

- ❖ Tamil Nadu Government rules on reservation are followed to admit students belonging to BC, MBC, SC & ST, besides open merit based quota and encouraged to get bank loans for weaker sections.

- ❖ Women students are treated on par with men students.
- ❖ Seats are reserved for disabled students, Sports quota & wards of the Defense employees.
- ❖ Students belonging to economically weaker sections are given fee waiver.
- ❖ Government of Tamil Nadu gives fees waiver to first graduation students
- ❖ Muslim minority students are allowed to pray in College premises on every Friday.
- ❖ Girl students are encouraged with separate hostel, transport facility, SPARSH Committee, and women empowerment cell.
- ❖ 5% of seats are reserved for Disabled persons and 10% seats are reserved for economically weaker sections.

**2.1.6 Provide the following details for various programmes offered by the institution during the last four years and comment on the trends. i.e. Reasons for increase / decrease and actions initiated for improvement.**

Programme		Sanctioned Strength	2012-13	2013-14	2014-15	2015-16
			S.AD	S.AD	S.AD	S.AD
UG	ECE	120	117	110	76	93
	CSE	120	112	102	91	113
	CIVIL	120	117	116	81	114
	EEE	60	55	58	34	44
	ME	120	120	118	111	120
	CHE	30	28	27	29	30
	IT	60	52	51	42	50

	Bio Tech	60	51	46	46	59
PG	M.E.S	18	17	18	18	15
	M.B.A	60	53	56	48	46
	M.C.A	60	39	12	8	2

- ❖ Exhibiting high placements track record for our students made the Engineering Courses for increasing admission.
- ❖ Exponential growth in terms of number of Institutions.

## 2.2 Catering to Student Diversity

### 2.2.1 How does the institution cater to the needs of differently abled students and ensure adherence to government policies in this regard?

Our institution adheres to the policies of the Government of Tamil Nadu and provides required facilities to differently abled students as necessary. Following facilities are provided by the institution for differently abled students:

- ❖ Separate benches are reserved for their convenience.
- ❖ Front row seats in College buses are reserved for such students.
- ❖ Mentors are assigned to such students to motivate them in their studies.
- ❖ Lift.
- ❖ Specially designed toilets.
- ❖ Ramp for physically challenged.
- ❖ Wheel chair & Wheel chair assistance.

### 2.2.2 Does the institution assess the students' needs in terms of knowledge and skills before the commencement of the programme? If yes, give details on the process.

Yes.

Orientation programmes are conducted for newly admitted students with emphasize on the following:

- ❖ Information and opportunities to explore academic success strategies
- ❖ General awareness on different subjects
- ❖ Importance of non-Engineering subjects, fundamental concepts on various issues.
- ❖ Importance of values and ethics, attendance, etiquette, discipline and punctuality of the students
- ❖ Importance of soft skills.
- ❖ Induction program is conducted for the students and the parents
- ❖ A bridge course is organized and an early assessment test is conducted to test the knowledge and skills of the students.
- ❖ Bloom's Taxonomy is applied to evaluate students' knowledge level.
- ❖ Students are segregated based on their performance and they are identified as fast learners, slow learners and medium learners.

**2.2.3 What are the strategies adopted by the institution to bridge the knowledge gap of the enrolled students (Bridge/Remedial/ Add-on/Enrichment Courses, etc.) To enable them to cope with the programme of their choice?**

Yes

- ❖ Bridge course is conducted for 14 days before the beginning of the academic year for the first year students
- ❖ Training on Soft & Communication skills is imparted to the students.
- ❖ Extra coaching is given for Tamil medium students & hostellers.
- ❖ Based on the students' performance remedial classes will be given to students
- ❖ The assessment is done through internal tests and segregated students as slow learners and fast learners. The faculty give separate bridge courses to slow learners.



#### **2.2.4 How does the Institution sensitize its staff and students on issues such as gender, inclusion, environment etc.?**

Special programmes are conducted to highlight women's rights and empowerment. There is a Grievance Cell in the Institution for the benefit of students. Faculty are sensitized about the needs of the girl students, students from SC, ST& Rural students. Anti-Ragging Cell is functioning in the Institution. Girl students are encouraged to join NCC and Youth Red Cross. Girl students are included in the class committees and hostel committees. They are also encouraged to organize seminars and conferences.

- ❖ Various programs are conducted to impart the knowledge and ways of reporting deviations in maintaining equality in gender among staff and student such that no discrimination is tolerated among them.
- ❖ Arrangements are made to receive letters through complaint boxes put in various accessible places in case any such deviation is seen in the campus.
- ❖ Awareness programmes are done annually on World environmental day, to empathize the faculty, and students.
- ❖ As far as religious aspects and gender equality in the institution are considered, both faculty and students will be treated equally without gender discrimination.
- ❖ The institution ensures that it never discriminates on gender and religious basis.
- ❖ The girl students are given equal role in various activities such as class committees, NCC, YRC and so on
- ❖ Environmental awareness is created by staff to the students through various programs.

- ❖ ‘May I help u’ blog is always available in Institutional website to guide and advise the students and faculty.

### **2.2.5 How does the institution identify and respond to special educational/learning needs of advanced learners?**

- ❖ Advanced learners are identified during class hours, through periodical assesment.
- ❖ They are motivated to participate in National and International Conferences and to take up projects in reputed companies like CSIR, TCS, CTS, Wipro, Intel, etc.
- ❖ Such students are motivated to participate in various technical competitions, project contests, assigned challenging tasks and are asked to train the fellow classmates.
- ❖ The Institution has signed MOUs with national and International Institutes and organizations. Students are exposed to advanced learning & research through these institutes/Organizations.
- ❖ The Institution runs Infosys Campus Connect Programme where students are the participants as advanced learners.

### **2.2.6 How does the institute collect, analyze and use the data and information on the academic performance (through the programme duration) of the students at risk of drop out (students from the disadvantaged sections of society, physically challenged, slow learners, economically weaker sections etc. who may discontinue their studies if some sort of support is not provided)?**

- ❖ Such students are given special attention in the following ways:
- ❖ For every twenty students a mentor is assigned to monitor the academic performance of the students.
- ❖ Class teachers take special care about the slow learners. They interact with the parents on a regular basis.

- ❖ HODs take steps to improve the performance of the students.
- ❖ Regular tests, re- tests, Slip tests and Home tests are conducted.
- ❖ Every Faculty member takes interest in the slow learners.
- ❖ Coaching classes are conducted for the slow learners after the completion of the syllabus in a regular manner.
- ❖ Faculty conducts coaching classes in the hostels for weak students.
- ❖ The students who are economically backward are identified by monthly income are given advices for getting scholarships.
- ❖ Physically challenged students are provided with special amenities such as, lift, wheel chair depending on their individual needs

## **2.3 Teaching-Learning Process**

### **2.3.1 How does the Institution plan and organize the teaching, learning and evaluation schedules? (Academic calendar, teaching plan, evaluation blue print, etc.)**

An academic calendar is published by the institute which includes the following:

- a. Assessment Schedule
- b. Academic events
- c. Periodical test Schedule
- d. List of Departments, Faculty and Facilities
- e. Rules and Regulations
- f. Sports Schedule
- g. List of Holidays
- h. Calendar of events

All the faculty members use log books for the theory as well as laboratory courses handled by them. A log book consists of the following details:

1. Student's register number

2. Name
3. Attendance details
4. Period wise syllabus coverage
5. Periodical test
6. Internal assessment mark

The evaluation of students is done periodically and their performance is brought to the knowledge of students by placing the marks secured by them on the notice board and to their parents through progress report.

The lesson plan for teaching is prepared at the beginning of every semester and it originates from the department level. The Head of the Department concerned conducts meeting with all the faculty members and allots subjects based on their interest and expertise. Then the time table is prepared, displayed at the departmental notice board, and circulated to the students. The faculty members are provided with attendance book, continuous evaluation diary which contains the teaching plan to be filled by the faculty member. In this meeting, assessment question papers and practical examination patterns are discussed at length and finalized.

Course-coverage is monitored by HODs and reports the same to the Principal. Wherever a deviation is observed, the HOD seeks clarification from the faculty member concerned. Special remedial class work is planned. The evaluation procedure for both theory and lab exams are kept transparent. The teacher issues answer scripts of the periodical tests to students and internal lab examinations with his / her comments. Discrepancies reported by any student are verified and necessary follow up action is taken before the marks statement is finalized. When a student feels dissatisfied with marks allotted, he / she may seek the intervention of the HOD. If the problem still remains unaddressed, then the student may bring it to the attention of the Principal. The mentoring

programme and Continuous evaluation system are regular features in the academic process.

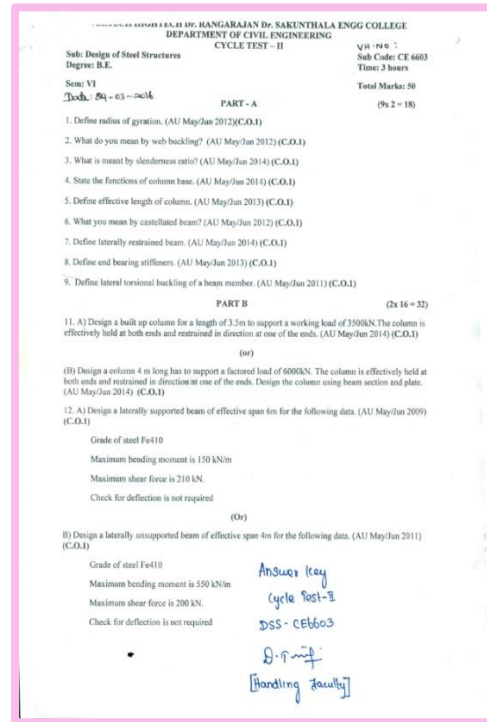
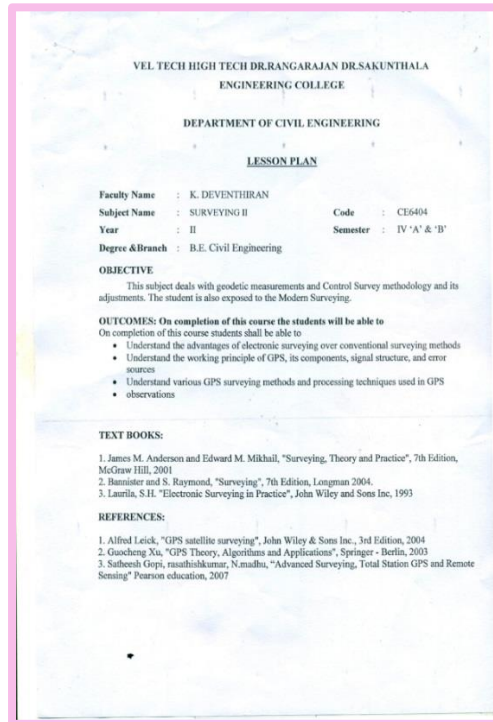
### Academic calendar 2016

EVEN SEMESTER 2015 - 2016 : ACADEMIC SCHEDULE for SEM 4.6 - B.E./B.TECH															
Jan-16				Feb-16				Mar-16				Apr-16			
Sl. No.	Day	Day event	Event	Sl. No.	Day	Day event	Event	Sl. No.	Day	Day event	Event	Sl. No.	Day	Day event	Event
1	Fri			1	Mon	18	Respon for IV Year (all Dept)	1	Tue	41		1	Fri	68	
2	Sat			2	Tue	19	Less than 75% attendance report	2	Wed	42	Less than 75% attendance report	2	Sat	70	Less than 75% attendance report
3	Sun			3	Wed	20	Assignment - 1	3	Thu	43	Assignment - 1	3	Sun	71	Holiday
4	Mon			4	Thu	21		4	Fri	44	Resch Analysis 1	4	Mon	72	Assignment - 1
5	Tue			5	Fri	22		5	Sat	45		5	Tue	73	Assignment - 1
6	Wed			6	Sat	23	Unit 1 to be Completed	6	Sun	46	Holiday	6	Wed	74	
7	Thu			7	Sun	24	Holiday	7	Mon	47		7	Thu	75	Resch Analysis 2
8	Fri	1		8	Mon	25		8	Tue	48		8	Fri	76	Veluppi New Year - Holiday
9	Sat	2		9	Tue	26		9	Wed	49		9	Sat	77	
10	Sun	3	Holiday	10	Wed	27		10	Thu	50		10	Sun	78	
11	Mon	4		11	Thu	28		11	Fri	51	Unit 3 Completed	11	Mon	79	
12	Tue	5		12	Fri	29		12	Sat	52		12	Tue	80	Unit 4 to be Completed
13	Wed	6		13	Sat	30		13	Sun	53	Holiday	13	Wed	81	Model Exam Paper 1 Revision
14	Thu	7		14	Sun	31	Holiday	14	Mon	54		14	Thu	82	Veluppi New Year - Holiday
15	Fri	8		15	Mon	01		15	Tue	55	Assignment - 2	15	Fri	83	Model Exam Paper 1
16	Sat	9	Pongal Holidays	16	Tue	01	Assignment - 2	16	Wed	56		16	Sat	84	Model Exam Paper 2 Revision
17	Sun	10		17	Wed	02		17	Thu	57		17	Sun	85	Holiday
18	Mon	11	Respon for III- CSE, IT & Mech.	18	Thu	03		18	Fri	58		18	Mon	86	Model Exam Paper 2
19	Tue	12	Respon for III- CSE, IT & Mech.	19	Fri	04		19	Sat	59		19	Tue	87	Mahavir Jayanti - Holiday
20	Wed	13	Respon for III-IT	20	Sat	05	Unit 2 to be Completed	20	Sun	60	Holiday	20	Wed	88	Model Exam Paper 2 Revision
21	Thu	14	Respon for IV-CSE & IT, CSE, IT & Mech.	21	Sun	06	Holiday	21	Mon	61		21	Thu	89	Model Exam Paper 3
22	Fri	15		22	Mon	07		22	Tue	62		22	Fri	90	Model Exam Paper 3 Revision
23	Sat	16		23	Tue	08		23	Wed	63	Unit 4 to be Completed	23	Sat	91	Model Exam Paper - 4
24	Sun	17	Holiday	24	Wed	09		24	Thu	64	Cycle Test 1	24	Sun	92	Holiday
25	Mon	18	Respon for III-EE	25	Thu	10		25	Fri	65	Model Exam Paper 4	25	Mon	93	Model Exam Paper 4 Revision
26	Tue	19	Respon for III-EE	26	Fri	11		26	Sat	66	Cycle Test 2	26	Tue	94	Model Exam Paper - 5
27	Wed	20	Respon for III- ECE,EEE,IT&MECH,CSE, IT & Mech.	27	Sat	12		27	Sun	67	Holiday	27	Wed	95	Model Exam Paper 5 Revision
28	Thu	21	Respon for III-EEE	28	Sun	13		28	Mon	68		28	Thu	96	Model Exam Paper - 6
29	Fri	22	Respon for IV- IT & EEE & Chem, CIVIL, IIT	29	Mon	14		29	Tue	69		29	Fri	97	Model Exam Paper - 7
30	Sat	23	Holiday	30	Tue	15		30	Wed	70	Cycle Test 2	30	Sat	98	Model Exam Paper - 8
31	Sun	24	Holiday	31	Wed	16		31	Thu	71		31	Sun	99	Model Exam Paper - 9

Count Lectures : 1 per year per Dept ; Industrial Visits : 1 per year per Dept ; Only 2 days are permitted for Paper Correction

Log Books should be verified by the HOD and signed by the Principal at the end of completion of every unit. System entry should be updated at the end of completion of every topic of every unit.

## Sample Lesson Plan and key plan of Civil Engineering Department



### 2.3.2 How does IQAC contribute to improve the teaching –learning process?

Though we are in first cycle of applying for NAAC, we are not contributing IQAC process; in order to maintain the quality, the institution has Internal Quality Assurance System (IQAS) to measure and maintain the quality of system. The Primary aim of the IQAS is to develop a system for conscious, consistent and catalytic action to improve the academic and administrative performance of the Institution.

The mechanism and procedure of IQAS involves:

- ❖ Ensuring timely, efficient and progressive performance of academic activities in accordance to the academic calendar.
- ❖ The relevance and quality of academic and research programmes will be made accessible and affordable for all sections of society.

- ❖ Optimization and integration of modern methods of teaching and learning.
- ❖ The credibility of evaluation procedures ensuring the adequacy, maintenance and functioning of the support structure and services
- ❖ Research sharing and networking with other institutions in India and abroad.
- ❖ Internal Quality Assurance Cell (IQAC) is mandatory for NAAC accreditation, in order to maintain the quality, IQAS is implemented from 2013-14.
- ❖ The cell comprises of external and internal members and the details are given in College website.

**2.3.3. How is learning made more student-centric? Give details on the support structures and systems available for teachers to develop skills like interactive learning, collaborative learning and independent learning among the students?**

- ❖ The affiliating university / faculty member will define course outcomes for each and every course in the curriculum.
- ❖ To ensure attainment of Course outcome, the faculty member will identify teaching method for each and every topic in the syllabus.
- ❖ The various teaching methods adopted by the faculty members are conventional delivery method, lecture interspersed with discussion to confirm student centric conducive learning environment.

**2.3.4 How does the institution nurture critical thinking, creativity and scientific temper among the students to transform them into life-long learners and innovators?**

- ❖ Institution grooms the ability of the student to study, interpret and introduce improvisation on recent trends. This initiative is accomplished through organizing,

1. Association activities.
  2. Incubator cell
  3. Innovation cell
  4. Entrepreneurship Development Cell
- ❖ This enables the students to pursue
    1. Publication of Manuscripts.
    2. Development of product prototypes.
    3. Participation and achievement in Innovation oriented Competitions
  - ❖ Application of Modern Analytical Techniques, which are not covered in the course curriculum are carried out in the project work in order to generate research aptitude in the students and to stimulate in depth interest in the minds of the students to go for higher studies.
  - ❖ Students who are interested in Research and Development work are continuously motivated and encouraged to present their Project/Research work in different National/International Seminar/Conference/Workshop and publish their work in National/International Journals and Seminar/Conference Proceedings.
  - ❖ Students are rewarded for their outstanding performances in project, research and other relevant fields.
  - ❖ Faculty who are engaged with the funded projects and the research work encourage the potential students and they always try to share their innovative concepts with the students.
  - ❖ The faculty always tries to upgrade themselves to train their students in different areas of Multidisciplinary Engineering & Technological fields.





**2.3.5 What are the technologies and facilities available and used by the faculty for effective teaching? Eg: Virtual laboratories, e-learning- resources from National Programme on Technology Enhanced Learning (NPTEL) and National Mission on Education through Information and Communication Technology (NME-ICT), open educational resources, mobile education,etc.**

Apart from traditional classroom teaching practices, the teachers are encouraged to use ICT-enabled teaching pedagogy. The teachers use the interactive whiteboard in ways that engage students, including students' use of the board, gaming applications and actions based on student responses.

The teachers encourage students to use online resources and help build online research skills, resulting in quality information. The teachers motivate students to use technology to complete assignments that require problem solving skills.

Technologies and facilities available are used by the faculty:

- ❖ Computers with internet facility in all departments

- ❖ Use of multi-media projectors.
- ❖ E-Learning
- ❖ E-Library and Unlimited Access to IEEE transactions.
- ❖ Open educational resources
- ❖ Use of power point presentation
- ❖ Language laboratory
- ❖ NPTEL Videos
- ❖ E-classrooms: Every department has an e-classroom with an LCD projector, audio equipment, computer, internet connection

**2.3.6 How are the students and faculty exposed to advanced level of knowledge and skills (blended learning, expert lectures, seminars, workshops etc.)?**

- ❖ Mandatory Vocational Training for the students studying in 6th semester is conducted in association with industries to get them acquainted with industry work culture.
- ❖ Short term courses are imparted in winter and summer holidays by the relevant industries.
- ❖ Industry personnel are often invited to share their knowledge with students.
- ❖ Regular industry visits are organized by the training and placement cell of the Institution.

**Faculty**

- ❖ Faculty members and students are encouraged to participate in various National, International Seminars, Faculty development programs, Refresher courses & Workshops.
- ❖ Orientation programs are conducted to the faculty members who have less than three years of experience in the institution.

- ❖ College organizes National, International Seminars, conferences & Workshops to motivate and enhance the skills of the faculty members.

**Students:**

- ❖ For upgrading the students' technical skills, students are encouraged to participate in technical symposium, conferences, workshops etc.
- ❖ Placement training is given to the students to develop their skills

**2.3.7 Detail (process and the number of students \benefitted) on the academic, personal and psycho-social support and guidance services (professional counseling/mentoring/academic advise) provided to students?**

**Process on the academic, personal and psycho-social support and guidance services**

- ❖ The mentor of students observes the students' academic performance and attendance, informs their parents to seek cooperation and suggest seeking remedial measures.

**Academic:**

- ❖ Slow learners are identified and are given special care, Counseling /academic advice.
- ❖ Advanced learners are encouraged to attend special classes, seminars, advanced courses, and innovative projects.
- ❖ If students face any academic problems while studying, academic advice is provided to help the students to find solutions by the members of Academic Advisory Committee. The academic advice service is an independent, free and confidential service that is open to all students.

**Personal:**

- ❖ Some of the rural students lacking in self-confidence, having inferiority complex are counseled and confidence to excel in studies is restored.
- ❖ They are made to work along with the rest of the students to achieve academic excellence.
- ❖ Needy students are given financial assistance by the Management.

**Psycho-social:**

- ❖ Students with poor communication skills are advised to train in the Language Lab after College hours.

**Guidance:**

- ❖ Professional Counseling is done by qualified professional Counselors appointed by the Institution. In addition, senior faculty members and administrators in The Institution also help students to accomplish their goals.

**Mentoring**

- ❖ Every individual faculty is allotted 20 students. The faculty members are responsible for all activities carried out by the students. Frequent meetings are conducted by the Principal in every semester to assess the outcome.

**2.3.8 Provide details of innovative teaching approaches/ methods adopted by the faculty during the last four years? What are the efforts made by the institution to encourage the faculty to adopt new and innovative approaches and the impact of such innovative practices on student learning?**

**The following Innovative teaching approaches/methods are adopted by the faculty:**

- ❖ Faculty members continuously do research to evolve innovative teaching methodologies. Innovative Development of smart class rooms with web-based teaching is done. The teachers utilize these facilities to teach the concepts clearly through audio/video mode.
- ❖ The teachers circulate tutorial notes, assignments, lecture notes and other relevant materials to the students.
- ❖ Formation of different groups among the students is done to encourage peer learning, which helps the students who are academically weak.
- ❖ The students are given tasks such as group assignment competitions, problem solving and mini projects. These activities help the students to learn on their own.

**Efforts made by the Institution:**

- ❖ Infosys Campus connect courses.
- ❖ Faculty are encouraged to attend FDPs in/out campus on new trends in teaching learning strategies. Upon the completion of FDP the participants will disseminate to other faculty members through inhouse orientation lectures.
- ❖ Special coaching is provided for Examinations like B.E.C of University of Cambridge

- ❖ Impact of innovative practices on student learning:
- ❖ Learning processes become increasingly personalized, tailored to the individual's needs and interests.
- ❖ Enabling individuals to develop and realize their personal potential.
- ❖ Motivated to allow the learner to enjoy learning, and also acquire skills that empower him/her to actively engage in the development of personal skills and competencies.

### **2.3.9 How are library resources used to augment the teaching- learning process?**

- ❖ Library is enabled with LAN, and Internet facilities.
- ❖ Advanced software is used to make easy access to find required books/journals.
- ❖ E - Library is equipped with the 48 mbps broad band Internet, 48 mbps leased Line connectivity.
- ❖ Open Access System is being followed in the Central Library and all the documents are bar-coded.
- ❖ In addition to the well-stocked Library, each department has its own departmental Library to facilitate easy access to the faculty, students and research scholars.
- ❖ IEL online facilities which provide access to international journals are available.
- ❖ Separate reading sections for faculty and students are available.
- ❖ The library operates beyond College hours.
- ❖ Daily newspapers, magazines and journals are subscribed for the Library.

- ❖ The Institution also has Digital Library with 15 computers, for course study repository NPTEL videos, softcopy of manuscript notes, and advanced learning books are available.

DEPARTMENT WISE BOOKS DETAILS:

S.NO	PROGRAMES	TITLE	VOL'S	JOURNAL		
				NATION AL	INTER NATIONAL	
1	ECE	1335	5341	12	DESIRABLE AS PER UGC NORMS	
2	CIVIL	1120	4480	12		
3	CHEMECAL	720	2880	6		
4	CSE	1023	4092	12		
5	IT	645	2581	6		
6	EEE	602	2408	6		
7	MECHANICAL	868	3472	12		
8	BIOTECH	749	2995	6		
9	S/H	1264	5057	---		
PG PROGRAMS						
10	ME	103	413	5		
11	MBA	1209	4839	12		
12	MCA	1113	4452	12		
	TOTAL	10752	43010	101		

**2.3.10 How does the institution face any challenges in completing the curriculum within the planned time frame and calendar? If “yes”, elaborate on the challenges encountered and the institutional approaches to overcome these.**

**-NO-**

### 2.3.11 How does the institute monitor and evaluate the quality of teaching and learning?

- ❖ Outcome based assessment.
- ❖ It is monitored through feedback from the students every semester and the feedback is also noted for the faculty's appraisal and for corrective actions.
- ❖ The Principal and HODs will convene academic review meeting and audit the outcome attained for each and every assessment test/exam.
- ❖ Corrective and preventive actions are taken through discussions in academic review meetings;

#### **Evaluation:**

- ❖ After the result analysis at the end of every semester, the student performance in each subject is analyzed and where ever the performance is to be improved, the teacher-in-charge is advised by the Principal.
- ❖ Evaluation is done by comparing the teaching process with well documented questionnaire prepared by UGC.

## 2.4 Teacher Quality

2.4.1 Provide the following details and elaborate on the strategies adopted by the Institution in planning and management of its human resource (qualified and competent teachers) to meet the changing requirements of the curriculum.

Highest Qualification	Professor		Associate Professor		Assistant Professor		Total	
	Male	Female	Male	Female	Male	Female	Male	Female
Permanent Teachers:215								



Diploma	-	-	-	-	-	-	-	-
PhD	16	-	12	2	-	-	28	02
M.Phil.	-	-	-	-	13	29	13	29
PG	0	-	-	1	75	67	75	68
TOTAL STAFF							116	99
Temporary Teachers : Nil								
Part-Time Teachers : Nil								

### Recruitment and Promotional Policies:

#### Recruitment of Staff

**1. Recruitment of teaching and technical staff** is normally done by inviting applications from eligible candidates either through paper advertisement or directly from identified candidates, screening applications by a committee and through interviews by an expert committee for the screened candidates.

**2. Recruitment of Principal, Admin/Account Officer** is done by inviting applications from eligible candidates directly. If well qualified persons are identified by the Management, direct recruitment is done by the Chairman.

**3. Recruitment of non-teaching staff** is normally done by inviting applications from eligible candidates either through paper advertisement or directly from identified candidates, screening applications by a committee and through interview by an expert committee for the short listed candidates.

**Qualification and experience-** All recruitments are done as per AICTE rules and regulations.

#### Promotional Policy

- ❖ Performance Appraisals of the employees are done by the Heads of the Departments & Head of the Institution and is reviewed by the Management.

- ❖ On satisfactory completion of probation, an employee is considered for confirmation in service
- ❖ Increment to the staff is given depending upon the performance of his /her working ability, discharge of his/her duties and attendance, self-appraisal & interview. Academic Performances Indicator score (API) is taken as the basis for the sanction of increments.
- ❖ The promotion is effected strictly as per AICTE norms.

**The following factors are taken into account at the time of effecting increments**

- ❖ Past performance record
- ❖ Potential for higher responsibilities and research outputs.
- ❖ Punctuality and good conduct based on recommendations forwarded by the Principal.

**Strategy:**

**Planning of human resources:**

- ❖ Institution is complying AICTE norms ie. 15:1 Student faculty ratio.
- ❖ As per requirement, time to time faculty positions are advertised in the leading newspapers and in College website.
- ❖ Recruitment and selection process will be done according to AICTE Approval Process Hand Book.
- ❖ The salary offered is as per the AICTE sixth pay commission scale, for highly qualified faculty, selection committee will recommend high salary

**Management of human resources:**

- ❖ For each faculty member competency is identified. And competency matrix is formulated.
- ❖ Each faculty member is deputed with a specific activity (academic/administrative) as per the competency matrix.

- ❖ The institution commits to provides facilities like transport, research facilities like library, internet, and staff quarters etc.
- ❖ Institution has promotion policy for staff and teachers, it will be enacted time to time.
- ❖ To encourage faculty, they are provided on duty, TA, and DA for participating in workshops and seminars.

**2.4.2 How does the institution cope with the growing demand/ scarcity of qualified senior faculty to teach new programmes / modern areas (emerging areas) of study being introduced (Biotechnology, IT, Bioinformatics etc.)? Provide details on the efforts made by the institution in this direction and the outcome during the last three years.**

Efforts made by the Institution to fulfill the need of qualified senior faculty:

- ❖ The Institution encourages and provides financial assistance for the senior faculty members to attend the workshops, seminar and national/international conferences within India and abroad.
- ❖ Providing resources for faculty research and development.
- ❖ The Institution arranges training programmes for the faculty members in recent advanced topics and provides more faculty development programmes to satisfy this requirement.
- ❖ For core branches, to attract senior faculty we are providing food and accomodiation with salary package and free transport.
- ❖ The Institution has the required number of qualified and competent teachers in all the departments to handle all the courses.

**2.4.3 Providing details on staff development programmes during the last four years elaborate on the strategies adopted by the institution in enhancing the teacher quality.**

- a) **Nomination to staff development programmes (random data)**
- b) **Faculty Training programmes organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning**

**Teaching learning methods/approaches:**

- ❖ Organizing,
- ❖ Transactional analysis training programme,
- ❖ Faculty induction for fresh teachers,
- ❖ IBM organized programmes etc.
- ❖ Faculty development programs.

Total no. of faculty as resource person/. Total no. of faculty members Participated in external Workshops /Seminars /Conferences recognized by national/ international professional bodies≈ 60% Presented papers in Workshops / Seminars / Conferences conducted or recognized by professional agencies ≈ 40% Number of staff development programmes has been conducted during the last four years in enhancing the teacher quality:

Academic Staff Development Programmes	Number of Faculty Nominated			
	2014 -15	2013-14	2012-13	2011-12
Refresher courses	13	7	8	1
HRD Programmes				
Orientation Programmes	15	27	13	9
Staff training conducted by the University	16	14	4	5
Staff training conducted by other Institutions	34	39	8	11

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Summer / winter schools, workshops, etc.	63	45	50	49
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**a) Nomination to staff development programmes**

b) Faculty Training programmes are organized by the institution to empower and enable the use of various tools and technology for improved teaching-learning

- ❖ Teaching learning methods/approaches
- ❖ Handling new curriculum
- ❖ Content/knowledge management
- ❖ Selection, development and use of enrichment materials
- ❖ Assessment
- ❖ Cross cutting issues
- ❖ Audio Visual Aids/multimedia
- ❖ Teaching learning material development, selection and use

**2.4.4 What policies/systems are in place to recharge teachers? (eg: providing research grants, study leave, support for research and academic publications teaching experience in other national institutions and specialized programmes industrial engagement etc.)**

- ❖ Institution encourages and deutes the faculty to attend refresher programs, conferences, seminars and training programs organized by other institutes, Universities and research organizations.
- ❖ The institution also organizes a number of seminars, workshops and special lectures (65) for the benefit of the faculty and the students.

- ❖ The institution offers incentives for publishing/presenting papers in National/International journals/conferences/seminars.
- ❖ About 31 faculty members are registered for pursuing PHD, and ON DUTY will be given for faculty to pursue Ph.D. work as per request
- ❖ No of conferences attended/presented by faculty and students in last four years are about 900.

**2.4.5 Give the number of faculty who received awards / recognition at the state, national and international level for excellence in teaching during the last four years. Enunciate how the institutional culture and environment contributed to such performance/achievement of the faculty.**

- ❖ The institution encourages the faculty to teach and research in their areas of interest provides necessary facilities like extended research laboratory & library timings and continuous internet facility.
- ❖ Faculty members of our Institute have been rewarded for presenting technical papers in various Seminars/conferences that were conducted by external Professional agencies.
- ❖ Few faculty are appreciated by providing special incentive for those who secure 100% result in their
- ❖ Few faculty of our Institute have been rewarded for presenting technical papers in various Seminars/conferences that were conducted by external Professional agencies.
- ❖ Our institute commits to provide necessary infrastructure support for faculty to emphasize in teaching.
- ❖ Our faculty members are reviewers in various ISI/SOCPUS/Web of Science national International journals.

- ❖ Our faculty members act as one of the editorial board members in various ISI/SOCPUS/Web of Science national International journals.
- ❖ Few faculty members act as an editor in ISI/SOCPUS/Web of Science national International journals.
- ❖ Our faculty members serve as board of study experts for various reputed educational institutions.

**2.4.6 Has the institution introduced evaluation of teachers by the students and external Peers? If yes, how is the evaluation used for improving the quality of the teaching-learning process?**

Yes.

Evaluation of teachers by the students is done through manual method. Students are instructed not to give their names in the feedback papers. Feedback system is followed in each semester. The feedback from the students is received for each individual faculty member.

**Evaluation is done for improving the quality of TLP through**

- ❖ Student feedback analysis
- ❖ Annual Appraisal by evaluating Annual Performance Index
- ❖ Continuous Evaluation Diary on the basis of the report of evaluation counseling of the teachers is done by Senior Professors to make corrective actions.
- ❖ The faculty members are also sent to attend the faculty development programmes on the basis of the evaluation report.

**2.5 Evaluation Process and Reforms**

**2.5.1 How does the institution ensure that the stakeholders of the institution especially students and faculty are aware of the evaluation processes?**

- ❖ The regulations, curricula and syllabi of all the programmes offered by the Institution are available in The Institution and Anna University websites. The regulations contain the details of the evaluation process.
- ❖ The faculty in charge of the Examination Cell of the Institution has prepared an Instruction Manual as per the guidelines of the Controller of Examinations of Anna University about the conduct of examinations and copies are made available to all departments.
- ❖ During the orientation program the newly admitted students are updated about the attendance requirements as well as the pass mark requirements and the grading systems for the internal assessments. Whenever the students are in doubt, they are encouraged to clarify them by discussing with the teachers/HODs.

**2.5.2 What are the major evaluation reforms of the university that the institution has adopted and what are the reforms initiated by the institution on its own?**

**Major evaluation reforms adopted**

- ❖ The evaluation processes are automated through intranet facilities. The faculty enters attendance and marks of the students periodically as per the slot allotted by Anna University. This web portal entry can be seen by the students in Anna University web site.
- ❖ The credit system for each course is introduced for UG and PG degrees.
- ❖ The Institution appoints External examiners for the practical examinations and viva voce examinations as per the University directives



- ❖ The Institution sends its faculty members as Examiners to evaluate semester answer scripts of Anna University in Central Valuation method.
- ❖ University Model question papers & probable questions with answers are given by the respective faculty members to the Students in every semester.

#### **Reforms by College:**

- ❖ Implementing Outcome based Assessment and Evaluation.
- ❖ Internal assessment tests are conducted with the help of neighboring College faculty members.
- ❖ Online entry of marks is made after assessment test to prepare for the outcome well in advance.

#### **2.5.3 How does the institution ensure effective implementation of the evaluation reforms of the university and those initiated by the institution on its own?**

Our institution ensures effective implementation of the evaluation reforms as follows:

##### **Conducting Examinations**

- ❖ The theory and lab examinations are conducted by Anna University in campus in the end of semester and marks are displayed.

##### **Publishing Results**

- ❖ Anna University will declare results in its website, then result analysis will be done. If required students will send request for revaluation of their answer scripts

##### **Reviewing Performance of the Students**

- ❖ The mentors review the performance of individual students and suggest ways to improve their performance in the forthcoming examinations.
- ❖ The HODs will review the performance of the students in examinations and take necessary steps to improve teaching-learning process accordingly.
- ❖ The Principal reviews the performance of the students with all the HODs and initiates further improvements in teaching-learning process.

#### **Maintenance of Records**

- ❖ All results will be updated in report card section and the same will be intimated to parents.

#### **Institute Initiatives**

- ❖ Framing Outcome based assessment question papers.
- ❖ Complete compliance with bloom's taxonomy.
- ❖ Developed an inhouse software to crunch stastical data of assessment exams. This software will provides the course outcome attainment numerical values.

#### **2.5.4 Provide details on the formative and summative assessment approaches adapted to measure student achievement. Cite a few examples which have positively impacted the system.**

- ❖ The performance and achievement of every student is closely monitored by the class coordinator concerned and HOD.
- ❖ The academic performance of a student is measured based on the periodical test conducted by the department and the end semester examination conducted by the Anna University.

- ❖ In addition, the student's achievement by way of paper presentation in conferences/symposium, attendance, individual project is also measured.
- ❖ The students who achieve 100% attendance are encouraged and rewarded. The student's involvements in technical symposium, NCC activity, Sports, etc, are well supported by the Institution.

**Example:**

- ❖ The academic performance has witnessed an upward swing over the years. Many students performed excellently in academics and topped in University examinations. Some students had been sent to attend international workshops/ conferences where students were selected based on their academic performances.
- ❖ Class attendance has improved, because the students become more serious to attend regular classes as the evaluation system contains internal marks for good attendance.
- ❖ Both theory and practical parts are being emphasized and students are doing well in higher studies and employment fields.
- ❖ Continuous evaluation is done to assess the students more accurately.
- ❖ Apart of slip tests, three formative tests during even semester and five formative tests on odd semester will be conducted.

Assessment Details	Theory	Practical's	Project work
Internal marks	20	20	40
External marks	80	80	160

**2.5.5 Detail on the significant improvements made in ensuring rigor and transparency in the internal assessment during the last four years and weightages assigned for the overall development of students (weightage for behavioral aspects, independent learning, communication skills etc.**

- ❖ Parents are informed about the performance of their wards through College websites and SMS.
- ❖ Parent- Teacher meetings are conducted every semester.
- ❖ There is a Progress card cell in the Institution which maintains the academic record of the students.
- ❖ The Corrected answer scripts are sent to the parents for their information about their wards' progress and performance.

**Result Analysis**

- ❖ For the internal tests, the results are declared within 3 days after the last examination.
- ❖ For end semester examination, the results are declared within 30 days after the last examination by Anna University.
- ❖ The following table (i) Students appeared (ii) Students passed and (iii) Overall Result analysis gives the result analysis of the past four years

**2.5.6. What is the graduate attributes specified by the Institution/ affiliating university? How does the College ensure the attainment of these by the students?**

In our institution all the undergraduate programmes went for National Board of accreditation since it follows Washington Accord, All the undergraduate programmes adopt the Washington Accord Graduate Attributes:

1. Engineering Knowledge
2. Problem analysis
3. Design/development of solutions

4. Conduct investigations of complex problems
  5. Modern tool usage
  6. The engineer and society
  7. Environment and sustainability
  8. Ethics
  9. Individual and Team work
  10. Communication
  11. Project management and finance
  12. Life-long learning
- ❖ These graduate attributes are attained through program curriculum (Theory, Practical, project work), co-curricular and Extra-curricular activities.
  - ❖ The course outcomes are attained through instructional Delivery, conducting practical sessions and project works and each has to be correlated with respective program outcome.

#### **2.5.7. What are the mechanisms for redressed of grievances with reference to evaluation both at the Institution and University level?**

In the case of grievance with evaluation, an application from the student is forwarded by the Head of the Department to the COE. The COE makes arrangements for the grievance redressal.

- ❖ **Internal Assessment:** All grievances regarding evaluation, including the internal assessment marks awarded for the students, are redressed by the examination cell and the various Heads of Departments. If there is any clarification the student can approach the concerned faculty. If a grievance cannot be addressed by the course faculty, the student has the option to take it up with the Head of the Department to get an explanation for the marks or weight age given.
- ❖ Retests are conducted for students who are absent due to health conditions.

### **Semester End Examination:**

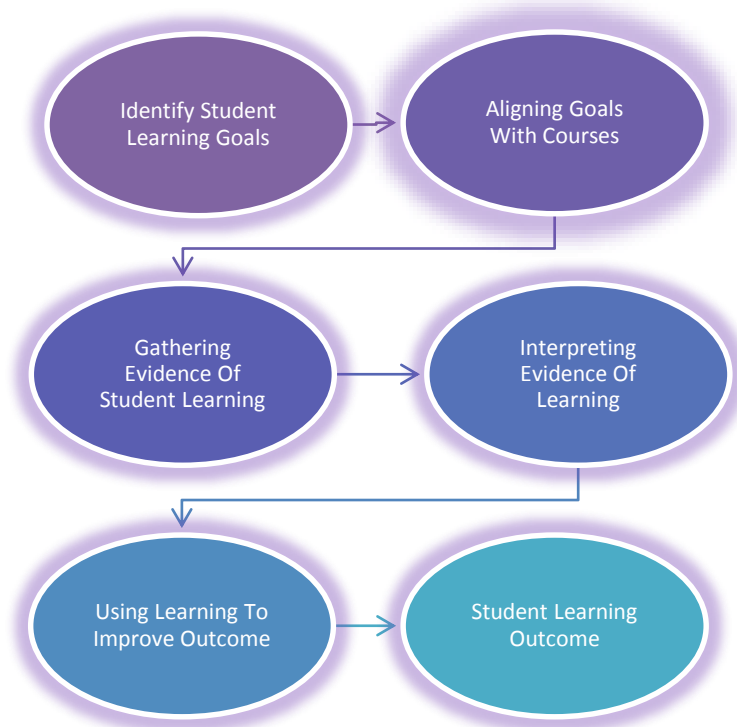
- ❖ If the grievance is against the Semester End examination results, the institution assists the students by helping them to apply for revaluation or Rechecking to the office of the Controller of Examination of Anna University through administrative office of the Institution.
- ❖ The administrative staff under instructions from Principal forward applications for revaluation to the office of the Controller of Examinations and follow it up regularly to ensure the speedy redressal of grievances.
- ❖ Within 10 days of the announcement of the results, students can apply for re-evaluation. Right to Information is also active which is availed by many students.
- ❖ Within 15 days of revaluation results students are also invited to go for challenge evaluation of answer manuscripts with 15 days.
- ❖ After the test marks are ready, Result analysis is done for every subject and the reasons for the failures are identified. Corrective measures are undertaken at once. Remedial exercises and special intensive coaching are given to the slow learners.

## **2.6. Student performance and Learning Outcomes**

### **2.6.1 Does the Institution have clearly stated learning outcomes? If “yes” give details on how the students and staff are made aware of these?**

Yes. The Institution has formulated its own Vision and Mission documents. These are displayed in the Institution website and in prominent places in the campus. Each program has its generic learning outcomes and one or two programme specific learning outcomes. These outcomes are derived from the graduate attributes of undergraduate engineering. These are disseminated to

all stakeholders by publishing them in websites, bulletin, display boards, weekly schedule etc.




The Programme Outcomes are displayed at all important places of the Institution in respective department. These are also posted on the Institution website. The programme Outcomes are also mentioned in the Hand Book provided to students.

Sample copy of Civil Department weekly schedule with course outcomes

DEPARTMENT OF CIVIL ENGINEERING IV SEMESTER

**VEL TECH HIGH TECH**  
**Dr.RANGARAJAN Dr.SAKUNTHALA ENGINEERING COLLEGE**  
 (Owned by R.S Trust)



**WEEKLY SCHEDULE**  
**2015 – 2016 EVEN SEMESTER**

**SEMESTER IV**  
**DEPARTMENT OF CIVIL ENGINEERING**  
**REGULATION 2013**

**B.E CIVIL ENGINEERING**  
**4 YEAR COURSE**

**#60, Avadi-Alamathi Road, Chennai-600 062**  
**Phone: 044 - 26840181**  
**E-mail : emailto@velhightech.com**  
**Website: www.velhightech.com**

DEPARTMENT OF CIVIL ENGINEERING IV SEMESTER

**CERAM - CONSTRUCTION MATERIALS**

**OBJECTIVES:**  
 To introduce students to various materials commonly used in civil engineering construction and their properties.

**WEEK 1**  
**UNIT I STONES - BRICKS - CONCRETE BLOCKS**  
 Stone as building material - Criteria for selection - Tests on stone - Description and Preservation of stone work

**WEEK 2**  
**Bricks - Classification - Manufacturing of clay bricks - Tests on bricks - Compressive Strength - Water Absorption**

**WEEK 3**  
**Bricks for concrete - Bricks for special use - Refractory bricks - Concrete Concrete blocks - Light weight concrete blocks (Unit I to be completed)**

**WEEK 4**  
**UNIT II LIME - CEMENT - AGGREGATES - MORTAR**  
**Lime - Preparation of lime mortar - Cement - Ingredients - Manufacturing process - Types and Grades - Properties of cement and Cement mortar**

**WEEK 5**  
**Mortars - Compressive strength - Tensile strength - Fineness - Soundness and consistency - Setting time - Industrial applications - Fly ash - Aggregates - Natural stone aggregates - Crushing strength**

**WEEK 6**  
**Impact strength - Fluohness Index - Elongation Index - Abrasion Resistance - Grading - Sand Bulking (Unit II to be completed)**

**WEEK 7**  
**UNIT III CONCRETE**  
**Concrete - Ingredients - Manufacturing Process - Batching plant - B.M.C - Properties of fresh concrete - Shrink - Flow and compaction Factor - Properties of hardened concrete - Compressive, Tensile and shear strength**

**WEEK 8**  
**Modulus of rupture - Tests - Mix specification - Mix proportioning - BIS method - High Strength Concrete and HPC - Self compacting Concrete - Other types of Concrete - Durability of Concrete (Unit III to be completed)**

**WEEK 9**  
**UNIT IV FIBER AND OTHER MATERIALS**  
**Fibres - Market forms - Industrial timber - Plywood - Veneer - Thermosets - Panels of laminates - Steel - Aluminium and Other Metallic Materials**

**WEEK 10**  
**Composites - Aluminium composite panel - Uses - Market forms - Mechanical treatment - Paints - Varnishes - Disinfectants (Unit IV to be completed)**

**WEEK 11**  
**UNIT V MODERN MATERIALS**  
**Glass - Composites - Substrates for fibres - Fiber glass reinforced plastic - Clay products**

**WEEK 12**  
**References - Composite materials - Types - Applications of laminar composites**

**WEEK 13**  
**Fibre textiles - Geotextiles and Geotextiles for earth reinforcement (Unit V to be completed)**

**OBJECTIVES**  
 On completion of this course the students will be able to:

- Compare The Properties Of Mass Concrete And Advanced Building Materials,
- Understand The Typical And Potential Applications Of These Materials
- Understand The Relationship Between Material Properties And Structural Form.
- Understand The Importance Of Experimental Verification Of Material Properties.

**TEXT BOOKS**

- Varghese P.C. "Building Materials", PHI Learning Pvt. Ltd, New Delhi, 2012.
- Singh, B.K. "Engineering Materials", B. Chandel and Company Ltd., 2008.
- Bhatti M.L. "Concrete Technology (Theory and Practice)", S. Chand and Company Ltd., 2008.
- Ghoshal M.L. "Concrete Technology", 3rd Edition, Tata McGraw Hill Education, 2004
- Nagpal R.K. "Building Materials", 4th Edition, New Age International, 2008.

**REFERENCES:**

- Jagdish K.S. "Advanced Building Materials Technology", New Age International, 2007.
- Ghoshal M.L. & Nishu Kumar, "Building Materials, products, properties and systems", Tata McGraw Hill Education Pvt. Ltd, New Delhi, 2012.
- IS456 - 2000 Indian Standard specification for plain and reinforced concrete, 2011
- IS4926 - 2001 Indian Standard specification for ready-mixed concrete, 2012
- IS381 - 1976 Indian Standard specification for coarse and fine aggregate from natural sources for concrete, 2011
- IS1342 - 1992 Indian standard specification for sand for plaster, 2009

**2.6.2 Enumerate on how the institution monitors and communicates the progress and performance of students through the duration of the course/ programme? Provide an analysis of the students’ results/achievements (Programme/course wise for last four years) and explain the differences if any and patterns of achievement across the programmes /courses offered.**

The Institution monitors the performance of students via assessment tests, tutorial classes, project review and special coaching classes through mentors. Continuous assessment examinations are done as per the exam schedule and special coaching classes are conducted for underperforming and slow learner students. Test results will be updated in progress reports and are sent to the parents after the completion with attendance %. Cumulative attendance reports are displayed on the department notice board time to time. Parents are asked to meet the concerned HOD if there is any long absentee and low performing.



**Percentage of students passed.**

Branch Name	2014-15	2013-14	2012-13
ECE	68.30%	90.10%	66.60%
CIVIL ENGG	58.64%	70.29%	84.35%
CHEMICAL ENGG	76.40%	86.60%	93.33%
BIOTECH	98.00%	98.00%	96.00%
IT	67.21%	74.24%	72.72%
CSE	56.00%	70.60%	79.00%
EEE	69.44%	90.00%	90.32%
MECH ENGG	45.00%	84.12%	-
MBA	87.50%	100.00%	100.00%
MCA	100.00%	100.00%	100.00%

**2.6.3 How are the teaching, learning and assessment strategies of the institution structured to facilitate the achievement of the intended learning outcomes? Overall teaching, learning and assessment strategies of the institution are structured in the form of strategic plan.**

- ❖ The Institution aims at helping students to reach their potential through the provision of a supportive, vibrant and challenging learning environment. Accordingly, the curriculum, teaching, learning and assessment at College are student-centric.
- ❖ The Institution has formed several academic committees that aim at enhancing the quality of learning, teaching and assessment in the Institute by providing academic leadership for the continued development of excellence in academic practice.
- ❖ The Institution is committed to creating an environment, where students are supported to achieve their potential and then working towards creating an inclusive learning community.
- ❖ Students are active partners with shared responsibilities for their own learning and achievement. Outcome based learning is emphasized.

This strategy recognizes the need to develop progressively self- directed and confident learners with the knowledge, skills, attitudes and values, which enhance their employability and progression opportunities

#### **Teaching methods**

- ❖ Lecture with discussion and demonstration
- ❖ Group discussion, Case Study, Tutorial
- ❖ Project
- ❖ Seminar
- ❖ Assignments
- ❖ Technical Reports Writing and oral presentations.
- ❖ Industrial Visits
- ❖ Internships
- ❖ Conference/ Workshops
- ❖ Research Publications
- ❖ Student Clubs and Professional bodies

#### **Assessment methods**

- ❖ Exams
- ❖ Lab reports
- ❖ Graduate Survey
- ❖ Alumni Surveys
- ❖ Employer Survey
- ❖ Other Informational Classroom Assessment methods.

**2.6.4 What are the measures/initiatives taken up by the institution to enhance the social and economic relevance (student placements, entrepreneurship, innovation and research aptitude developed among students etc.) of the courses offered?**

- ❖ The students are exposed to various activities like presentations, projects, assignments etc and moreover they are allowed to take responsibility in conducting many activities/events so that they develop confidence, better problem solving skills, better decision making capacity and leadership qualities which help them to undertake challenging assignments in the future.
- ❖ The institution has social as well as economic responsibility. The courses run by the institution have both social and economic relevance. It understands the responsibility in the socio economic parameters.
- ❖ The Institution has structured committees like Training and Placement Cell, R&D Committee, Cultural committee, Mentor committee etc. to help students to achieve educational, social and economic objectives.
- ❖ The Institution has Enterprenuer Development Cell to stimulate entrepreneurial sprit among the students.

**Student Innovation Project List:**

- ❖ Finding of creative ideas from the students
- ❖ Every department encourages the students to give their new ideas a big splash. Quality of the project should be the main criterion instead of quantity.
- ❖ The proposals are entered in various events and in some of the events, the students got prizes and certificates of merit.

- ❖ The following lists show the events participated by the students and departments.

S. No	Date	Contest Name	Department											Total	
			CIVIL	MEC	ECE	EEE	BIO	CHE	CSE	IT	MCA	MBA	ME		
1	31/9/14	Infosys	-	-	-	-	-	-	-	9	1	2			217
2	27/6/14	Microsoft	-	-	-	-	-	-	-	4	3	5			48
3	27/6/14	TCS Code Vita	-	-	-	-	-	-	-	1	-	5			15
4	21/09/14	Nokia Apps	-	-	-	-	-	-	-	3	-	2			5
5	15/10/14	CII Wheebox	5	-	2	2	2	2	4	2	3	1			239
6	19/10/14	Vellammal Apps	-	-	-	-	-	-	-	-	2	-			2
7	31/09/14	Intel Apps	-	-	-	-	-	-	-	-	3	-			3
8	15/10/14	Motorola	4	2	1	6	3	1	5	1	1	2			35
10	31/08/14	TNSCST	2	9	4	1	1	3	3	9	2	6	3		61

11	15/10/14	IBM TGMC	-	-	-	-	-	-	18	-	15			33
12	14/08/14	Design ACE	2	-	-	-	-	-	-	-	-	-		2
13		TIFAC-MSME	3	-	1	-	-	-	-	-	-	-		4
14	15/08/14	Texas	-	-	2	-	-	-	-	-	-			2
15	15/10/14	Vel Tech university(Inter College Competition)	-	-	-	-	-	-	-	-	-	2		
16	24/11/14	TAFE	1	2				1						4

**2.6.5 How does the institution collect and analyze data on student performance and learning outcomes and use it for planning and overcoming barriers of learning?**

- ❖ Slow learner and fast learner students are identified through outcome based performance evaluation. Slow learners are provided by ICD and remedial classes so that the barriers of learning are overcome.
- ❖ A part from the internal exams, the regular end semester evaluation results are analyzed and more attention is given to the students as per their requirements.
- ❖ Teachers ensure that students attend their classes regularly. This is monitored by the monitoring committee composed of teachers. Attendance is made compulsory to appear for semester examination, projects etc. Teachers ensure that every student actively takes part in all around activities conducted by College. Parents are regularly informed if any student is having inadequate attendance.

The Institution places more emphasis on outcome based education in which students ‘skills and abilities to apply concepts are measured.

### 2.6.6 How does the institution monitor and ensure the achievement of learning outcomes?

The Institution monitors the performance of the students and ensures the achievement of learning outcomes in the following ways:

- ❖ This program considers MARKS SCORED BY THE STUDENT as an evaluative measure for assessment of course outcome attainment.
- ❖ The course outcome attainment is evaluated by assessment of student's performance in two types of methods,
- ❖ MARKS SCORED IN IN UNIVERSITY EXAMINATION.
- ❖ Marks scored in Internal Assessment Examination and Marks scored in Assignment Exercises completion and submission.
- ❖ For Evaluation of Course Outcome Attainment for University Examination considers this program follows **SIX ATTAINMENT LEVELS** in terms of marks scored.

#### Attainment Levels for University Examination

S.No.	MARKS SCORED	GRADE AWARDED
1	91 to 100	S
2	81 to 90	A
3	71 to 80	B
4	61 to 70	C
5	57 to 60	D
6	50 to 56 is	E

- ✓ This program defines TARGET LEVEL:60% OF THE STUDENTS SCORING C-GRADE
- ❖ For Evaluation of Course Outcome Attainment for in Internal Assessment Examinations and Assignment Exercises considers **THREE ATTAINMENT LEVELS** in terms of marks scored.

S.No.	MARKS SCORED	GRADE AWARDED
1	50 to 60	1
2	55 to 65	2
3	> 65	3

- ✓ This program defines TARGET LEVEL:60% OF THE STUDENTS SCORING GRADE 3
- ❖ The course outcome attainment is calculated by assigning, 60% weightage to University Examination and 40 % weightage to Internal Assessment Tests.
- ❖ Programe Outcome attainment level will be based on attainment level of direct assessment and indirect assessment.
- ❖ Over all attainment level equals to the sum of 80% of the direct assessment and 20% to indirect assessment.

**2.6.7 Does the institution and individual teachers use assessment/ evaluation outcomes as an indicator for evaluating student performance, achievement of learning objectives and planning? If “yes” provide details on the process and cite a few examples. Any other relevant information regarding Teaching-Learning and Evaluation which the Institution would like to include.**

**Graduates attribute specified by the Institution and the attainments of these by the students are followed closely.**

**Engineering Knowledge:** Apply knowledge of Mathematics, Science, Engineering fundamentals and an Engineering specialization to offer the solutions for complex engineering problems.

**Problem Analysis:** Identify, formulate, research and analyze complex engineering problems reaching substantiated conclusions using principles of mathematics, natural sciences and engineering sciences.

**Design/ Development of Solutions:** Design solutions for complex engineering problems and design system components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal and environmental considerations.

**Conduct investigations of complex problems** using research-based knowledge and research methods including design of experiments, analysis and interpretation of data and synthesis of information to provide valid conclusions.

**Modern Tool Usage:** Create, select and apply appropriate techniques, resources and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

**The Engineer and Society:** Apply reasoning informed by contextual knowledge to assess societal, health, safety, legal and cultural issues and the



consequent responsibilities relevant to professional engineering practice. The Engineer must understand the needs of the society and work for the upliftment of the weaker sections of the society.

**Environment and Sustainability:** Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.

**Ethics:** Apply ethical principles and be committed to professional ethics and responsibilities and norms of engineering practices.

**Individual and Team Work:** Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.

**Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations and give and receive clear instructions.

**Life-long Learning:** Recognize the need for and have the preparation and ability to engage in independent and life- long learning in the broadest context of technological change.

**Project Management and Finance:** Demonstrate knowledge and understanding of engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**Any other relevant information regarding Teaching-Learning and Evaluation which The Institution would like to include.**

- ❖ The Institution has a dedicated Academic Committee to track the academic performance of the students. This forum meets every month to review and strategize academic issues. The minutes of the Committee are recorded.

- ❖ The students are placed under a teacher mentor who keeps in constant touch with the students thereby looking after their academic, personal requirements / problems. Every mentor is required to maintain the Mentors Register of the mentees as a record of activities.
- ❖ The Institution encourages and motivates students to publish research papers under the guidance of faculty members.

These are disseminated to all stakeholders by publishing them in websites, bulletin, display boards etc

Sample 1:

<b>Name of the Programmer</b>	<b>VH No:</b>	<b>Student Name:</b>	<b>Batch:</b>		
CGPA:					
Sem:1	Sem:2	Sem:3	Sem:4	Sem:5	Sem:6
Final CGPA:			University Rank:		

Sample 2:

<b>Name of the Programmer</b>	<b>VH No:</b>	<b>Student Name:</b>	<b>Batch:</b>				
CGPA:							
Sem:1	Sem:2	Sem:3	Sem:4	Sem:5	Sem:6	Sem:7	Sem:8
Final CGPA:				University Rank:			

Student Program Outcome Attainment Analysis:

Dept: Civil Engineering

Name of Student	College ID Number	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
Ms.Gayathri G	VH5354	3	3	3	4	3	3	2	3	4	3	4	4
Mr.Gokulnath.V	VH5092	4	4	4	4	3	4	4	4	3	3	2	3
Ms.Keerthana.P.C	VH5089	4	4	4	4	4	4	4	4	3	3	3	3
Mr.Gurumoorthy.P	VH5152	3	3	4	3	2	4	4	4	3	3	4	3
Ms.Lavanya.B	VH5114	4	4	4	4	3	4	3	4	3	4	4	
.....	.....												
.....	.....												

Marks rated from 1 to 4.

### CRITERION III - RESEARCH, CONSULTANCY AND EXTENSION

#### 3.1 Promotion of Research

**3.1.1 Does the institution have recognized research centers of the affiliating University or any other agency/organization? If so, list the research centers and its achievements.**

Yes. The following department in the Institution has been recognized as a research centre by the Anna University, Chennai

❖ Department of Chemistry- Anna University –letter reference Lr.No 118/IR/Chemistry/AR1.

Details of scholars pursuing PhD in the different research centers in the years are given below:

S.No	Name of the faculty member who	Name of University	Tentative Area of	Status
1	Ms.A.V.Deepa	Bharathiyar University	Chemistry	Pursuing
2	Ms.Priya	Anna University	Chemistry	Pursuing
3	Ms.Anuradha	Bharathiyar University	Chemistry	Pursuing
4	Ms.Sasikala	Bharathiyar University	Chemistry	Pursuing

#### **Project related prizes/awards won by the students:**

- ❖ Many students have bagged first prize in the competitions held outside the Institution premises.
- ❖ After checking the ongoing research, on-duty permission will be given to the students.

**3.1.2 Does the Institution have a research committee to monitor and address the issues of research? If so, mention a few recommendations made**

Yes. The institution has a “Research Committee” to monitor and address the

issues of research. The research monitoring committee comprises of a Chairperson, a Research Coordinator and members from various departments.

S.No.	Name	Department	Designation
1.	Dr.K.Murugesan	ECE	Principal/Chairperson
2.	Dr.G.Deenadayalan	Mechanical	Professor/Research Coordinator
3.	Dr. M. Thiruvengadam	Civil	Professor
4	Dr. R. Henry Xavier	Mechanical	Professor
5	Dr. G. Saravanakumar	ECE	Dean
6	Dr.K.Somasundaram	CSE	Professor
7	Dr. D. Yuvaraj	Biotech	Professor
8	Dr. R. Rajamani	Chemical	Professor
9	Dr. H. Moideen Basha	MBA	Professor
10	Dr.R. Muralidharan	Physics	Professor
11	Dr. B. Vijayakumar	Chemistry	Professor
11	Dr. S. Ganesan	English	Professor
12	Dr. C.Mohan	Maths	Professor

#### Recommendations:

- ❖ To forward / reject / modify suitable research proposals to appropriate /respective funding agencies depending on their field of specialization.
- ❖ To motivate young researchers to involve in preparation of technical reports, review papers, participate in conferences, etc.
- ❖ To motivate researchers to publish two technical papers in international journals of repute on their research outcomes every semester.
- ❖ To recommend financial Incentives to faculty for publications and decide on purchase decisions on funding received.

- ❖ The Impact of the above committee enhances the quality of research proposals and also stimulates research spirit among the teachers.

**Impact of recommendations made by the committee:**

1. Faculty members are encouraged and supported to apply for research projects under various government funding agencies like AICTE, UGC, ICMR, DST, MoWR (Ministry of water resources), MoEF (Ministry of Environment Forest and Climate Change) and CSIR etc...
2. Many papers were published in Scopus/SCI/Science direct journals of high impact factor with enhanced citations.
3. One research center was established.
4. Meeting is conducted every Monday for PhD qualified faculty members who helped in identification of interdisciplinary research. This enabled the institution to obtain funded projects from agencies supporting interdisciplinary research.
5. Inter-departmental harmony is improved through this R&D meeting towards interactions between different departments which also made more faculty members to participate in workshops, seminars organized in the reputed institutions.

**3.1.3 What are the measures taken by the institution to facilitate smooth progress and implementation of research schemes/ projects?**

**Measures taken by the Institute to facilitate research scholars.**

The institution sanctions 15 days on-duty leave every academic year to those who are pursuing their Ph.D or working on research projects. Currently, 15% of faculty utilizes this provision for carrying out their research activities.

The faculty who availed of such encouragement given by the Institution have contributed in the form of

- ❖ Submission of more project proposals for various funding agencies
- ❖ Quality research through research publications
- ❖ Active involvement in research activities
- ❖ Dissemination of their enhanced knowledge levels in research activity to the peers and students thereby improving teaching learning process and research environment.

#### **Autonomy to the principal investigator**

- ❖ The institution grants total freedom to the faculty members who have received research funding. The Institution provides all the necessary man-power and infrastructure facilities to carry out their research work and take utmost care in submitting the project report on time.
- ❖ Faculty with research funding is given reduced teaching load and is permitted to attend various conferences and seminars pertaining to their research.
- ❖ The faculty members are provided with separate computers with internet facilities. If required, they will be given benefit of attendance to pursue their research.
- ❖ Each principal investigator holds a separate bank account in the name of the institute for release of funds and successful completion of the project in time.
- ❖ The departments have established adequate lab facilities to carry out the research projects.
- ❖ The Central library of the institute is enhanced with online journals in DELNET etc. The library has joined INDEST consortium for e-journals access at discounted rates fixed by MHRD. This enables the researchers to access the journals online.

### **3.1.4 What are the efforts made by the institution in encouraging students to develop scientific temper and research interest?**

- ❖ The Institution always encourages faculty and students to attend various seminars, conferences, workshops and symposia organized by different organizations and Industry. Students are encouraged to organize National level conferences funded by the institution.
- ❖ The institute has a separate innovation cell, which grooms young minds in undertaking research and publish their works. The students are encouraged to participate in various competitions including Software development Final year students are given free hand in selecting their research stations for completing their final year research.
- ❖ Regular guest lectures are organized and the students are permitted to interact with the resource persons. Regular industrial visits are organized for the students to provide them with the awareness of the issues faced by industries.

### **3.1.5 Give details of the faculty involvement in active research (Guiding student research, obtaining funded projects, engaged in individual/collaborative research activity, etc.)**

All the faculties are actively involved in in-house research as well as collaborative research with other institutions and research centers. Two funded project are being carried out by our faculty members. The institution has to its credit 25 Doctorate's who actively involve in research work and who continuously publish articles in highly indexed, impact factored journals. Each faculty members will guide two student batches (6-8 students).



Nature of the Project	Duration Year From To	Title of the project	Name of the funding agency	Total Grant	
				Sanctioned	Received
RPS	2013-2016	A Study of Flow through Porous Media in Converging Boundaries	AICTE	15,65,000	13,35,000
Fast Track	2013-2016	Development of eco-friendly synthetic methods for organic compounds of commercial importance	DST- SERB	25,00,000	17,00,000

**3.1.6 Give details of workshops/training programmes conducted/ organized by the institution with focus on capacity building in terms of research and imbibing research culture among the staff and students.**

S.No	Academic Year	Department (s)	Event	Name of the staff / investigator
1	2012-13	Biotech & Chemical	Conference	Mr.M.Chandran
2		Biotech	Seminar	Mrs.P.Aarthi
3			Conference	Dr.S.Arokiaraj
4			Seminar	Mr.M.Chandran
5			CSE	FDP
6		CSE, IT & MCA	Conference	.M.B.A.Salai Aaviyamma
7		Mechanical & Civil	Conference	Dr. D. Siva Kumar
8		MBA	Conference	Mrs. K.Alka Pinto
9		ECE & EEE	Conference	Mr. M.Maria Rajiv
10		ECE	FDP	Mrs. N.D Bobby
11	2013-14	CSE, IT & MCA	Conference	Ms.C. Chandravathi
12		CSE	FDP	Ms.M.B.A.Salai Aaviyamma
13		Mechanical & Civil	Conference	Mr.S.Rajamanickam

14		Mechanical	Seminar	Mr.S.Rajamanickam	
15		Biotech & Chemical	Conference	Mrs.P.K.Gayathri	
16		Biotech	Seminar	Mr.M.Chandran	
17			FDP	Mr.M.Chandran	
18		Civil	Seminar	Dr.D.Sivakumar	
19		MBA	Conference	Mr.E.Baskaran	
20		Civil	Seminar	Dr.D.Sivakumar & Dr.M.Thiruvengadam	
21		EEE	Seminar	Mr.K Kumarasamy	
22		ECE & EEE	Conference	Mr. N.Prabhakar	
23		2014-15	Biotech & Chemical	Conference	Mr.M.Chandran
			Biotech	FDP-SWSS	Mr.M.Chandran
24			Mechanical	Workshop	Mr. Karthigairajan
	Mechanical		Seminar	Mr.Rajamanikam	
25	Mech & Civil		Conference	Mr. Karthigairajan	
26	IT		FDTP	Mr. P.Vinoth Kumar	
27	CSE & IT		Workshop	Ms.C.Chandravathi	
28	MBA		Conference	Mr.Kalyana Sundaram & Dr.S. Nakiran	
29	ECE & EEE	Conference	Mr. Mohammed Niyas		

**3.1.7 Provide details of prioritized research areas and the expertise available with the institution.**

S.No.	Department	Specialization
1	Civil	Water Engineering, Environmental & Water Resources Engg.
2	Mechanical	Product Design, Manufacturing Science, Composite Materials, Manufacturing, Material Sciences
3	ECE	Biosignal Processing, Optical Signal Processing
4	CSE&IT	Data Mining, Networking
5	Chemical	Chemical Reaction Engineering
6	MBA	Social Welfare and Community Well-being
7	Chemistry	Environmental Chemistry, Green Chemistry, Instrumentation
8	Physics	Crystal Growth
9	Biotech	Drug discovery, Plant Biotechnology, Marine Biotechnology

**3.1.8 Does the Institution attract researchers of eminence to visit the campus and interact with teachers and students? If so, list the scientists who visited the institution.**

- ❖ The Institution regularly organizes conferences, seminars and workshops in order to create a common ground, for researchers of eminence to interact with faculty and students.
- ❖ Every week an eminent Professor/scientist is invited to scrutinize the research ideas of faculty from each department.

Researchers of eminence whose visit enabled the significant outcomes are

- ✓ Dr.A.P.J. Abdul Kalam
- ✓ Shri.Lakshmi Narayanan
- ✓ Dr.N.R Narayana Muthy
- ✓ Shri.Gopal Srinivasan

- ✓ Dr.V.Sumantran
- ✓ Dr.T.Hemalatha (SCIENTIST,CSIR -SERC)
- ✓ Dr.Ramachandra Murthy(Senior Scientist &Project Leader,Serc - Chennai)
- ✓ Ms.Bhavana Chandar Das,Reg.Mgr Octamec Engg.Ltd.
- ✓ Mr. Ramesh, Managing Director, Insfired Solutions, Chennai
- ✓ Dr.Krishna Kumar, Senior Technical Officer, Drdo, Cvrde, Chennai
- ✓ Mr.E.Iniya Nehru, Senior Technical Director, National Informaticvs Center
- ✓ Mr. K. Babu, Retd. Manager Rane Engine Valves Ltd, Chennai
- ✓ Mr.M.Ravindran, Sub Divisional Engineer, Rgmttc, Chennai
- ✓ Mr.S.SiddharthM.S.( USA), Program Manager, six sigma black belt, TAFE Tractors, Sembiam, Chennai.
- ✓ Dr. Melvin, Senior Resident, Dept of Pharmacology, JIPMER, Pondicherry
- ✓ Mr. Alwyn Ebanazer, IISc Bangalore, Bangalore
- ✓ Mr. Barath manikanth, Dr. Reddy's Lab, Hyderabad
- ✓ Dr.A.Gnanamani, Senior scientist, CLRI, Chennai
- ✓ Mr V.K.Srivastava Deputy General Manager (Safety), Mars, Range Operation. Sathish Dhawan Space Centre.
- ✓ Mr.P.Thiagarajan Senior Manager, Chennai Petroleum Corporation Lt
- ✓ Mr. Veerappaji Bittanakurike Shivanna, Senior Team Leader, Infosys.

### 3.1.9 What percentage of the faculty has utilized vacation Leave for research activities? How has the provision contributed to improve the quality of research?

The institution sanctions 15 days on-duty every academic year to those who are pursuing their Ph.D or working on research projects. Currently, 15% of faculty utilizes this provision for carrying out their research activities.

The faculty who availed of such encouragement given by the Institution has contributed to improve the quality of research in the following ways.

- ❖ Submission of more project proposals for various funding agencies
- ❖ Quality research through research publications
- ❖ Active involvement in research activities
- ❖ Dissemination of their enhanced knowledge levels in research activity to the peers and students thereby improving teaching learning process and research environment.
- ❖ 30 faculty members have utilized vacation Leave for research activities until the academic year 2015-16 after they were involving actively in research. It makes an average of about 15% of the total number of teaching faculty members.

#### List of (Ph.D) pursuing Faculty registered in our Institution :

S. No	Name of Faculty	Dept	Name of University	Year of Registration
1.	Mr.K.Kumarasamy	EEE	Anna University	July 2007
2.	Mr.S.SrikrishnaKumar	EEE	Vel Tech University	Jun 2014
3.	Dr.S.Harshavardan Naidu	EEE	Vel Tech University	Aug 2010
4.	Mr.K.R.Sugavanam	EEE	Anna University	Jan 2015
5.	Mr M.Chandran	BioTech	Anna University	Jun2010
6.	Mrs.P.K.Gayathri	BioTech	Anna University	Jun 2013
7.	Ms.sumalatha	Physics	University of Madras	Jan 2016
68.	MrA.Saravana Raj	Chemical	Anna University	Jan 2013

9.	Mr A.Vishnukumar	IT	Anna University	Jan2013
10.	Mr J.Velmurugan	IT	Anna University	July 2012
11.	C.Chanravathi	IT	Anna university	July2013
12.	Ms.N.Duraichi	ECE	Anna university	Dec 2011
13.	Mrs.S.Krishna kumari	ECE	Anna University	Jan 2015
13.	Mr N.Prabhakaran	ECE	Anna University	Jan 2015
14.	Mr B.Mathusudhana Reddy	ECE	Anna University	Jan 2012
15.	Mr H.K.Singh	ECE	Anna University	July 2010
16.	Ms.N.Gayathri	Mechanica l	Anna University	July 2011
17.	Mr M.Karthigairajan	Mechanica l	Anna University	July 2011
18.	Mr R.Palani	Mechanica l	Anna University	June 2014
19.	Mr S.Rajamanickam	Mechanica l	Anna University	July 2014
20.	Mr K.Arumugam	Mechanica l	Anna University	Jun 2008
21.	Mr S.Raju	Physics	Bharathiyar University	July 2011
22.	Ms.K.Tamizhselvi	Physics	Anna University	July 2011
23.	Ms.Alamelu Mangai	Physics	Anna University	July 2011
24.	Ms.A.V.Deepa	Physics	Bharathiyar University	July 2013
25.	Ms.Priya	Chemistry	Anna University	Sep 2011
26.	Ms.Anuradha	Chemistry	Bharathiyar University	Sep 2013
27.	Ms.Sasikala	Chemistry	Bharathiyar University	Sep 2014
28.	Mr Kothandaraman	Maths	Veltech University	Jan 2011
29.	Ms.Shanthi	Maths	Veltech University	April 2015
30.	Mr.S.K.Manikandan	MCA	Anna University	July 2012
32	E.T.Evangeline	MBA	Bharathiar University	January 2013

**3.1.10 Provide details of the steps taken by the institution in transfer of relative findings of research of the institution and elsewhere to students and community (lab to land)**

- ❖ Technical Awareness programmes on state of art developments are arranged for Small Scale Industries and Entrepreneurs through SIDCO and other Industry bodies
- ❖ Students are allocated to a faculty who shall transfer the research ideas into laboratory scale. Hands on trainings regarding the principle behind the research ideas are provided by the respective faculty to the students.
- ❖ Socially relevant research works like CO<sub>2</sub> sequestration, bio-fertilizers, solid/liquid waste management, ground water reclamation, dye removal from tannery effluents, Data mining, signal processing, bio-fuels, alternative energy etc are carried out by faculty and students.

Sl. No	Name of the Inventors	CBR No.	Reference Number / Application Type	Application Number	Title / Remarks
1.	Dr.D.Sivakumar Dr.B.S.Thandaveswara	23266	Ordinary Application (E-2/5457/2014-CHE)	<b>6275/CHE/2014</b>	Lumped Landfill Leachate Production Model For Leachate Flow
2.	Dr.D.Sivakumar Dr.B.S.Thandaveswara	23267	Ordinary Application (E-2/5458/2014-CHE)	<b>6276/CHE/2014</b>	Analytical Model Development On Leachate Volume Computation From

					Solid Waste
3.	Dr.D.Sivakumar	1016 1	Ordinary Application E- 2/1515/2015 -CHE	2572/CHE/20 15	Adsorption, Isotherm And Kinetic Studies On Electroplating Industry Wastewater Using Albizia Lebbeck

### 3.2 Resource Mobilization for Research

College allocates an annual outlay for providing Research and Development efforts. External funding is obtained from Collaborating Industries and also through AICTE, UGC, University, CSIR, etc.

#### 3.2.1 What percentage of the total budget is earmarked for research?

The Institution generously supports research in the form of invited lectures, conducting seminars, workshops and conference. Regular guest lectures are organized to enhance and update the current trends in `engineering science and technology.

	Annual Budget in Rs.Lakhs.	Expenditure in Rs.Lakhs.	% of amount allotted to R&D	Amount allotted for R&D in Rs.Lakhs.
2013-14	2155	2403	0.98%	21.26
2014-15	2229	2475	0.76%	17.12
2015-16	2584	2307	0.80%	20.88



**3.2.2 Is there a provision in the institution to provide seed money to the faculty for research? If so, specify the amount disbursed and the percentage of the faculty that has availed the facility in the last four years?**

Our institution has provision to provide seed money to the faculty for research. The Governing Body may consider the proposal forwarded by the faculty for the financial help. If any faculty seeks financial help for research the institution may consider the proposal positively on the basis of the merits of proposal. For PhD pursuing researchers in Veltech Technical University they are given 100% scholarship in tuition fees. For Anna University, staff are given about 10% of their salary as scholarship.

**3.2.3 What are the financial provisions made available to support research projects by students?**

The student projects shall be carried out in the departments with all necessary utilities. Their projects are forwarded to funding agency like TNSCST for research funding. The funded projects are given additional supports.

**3.2.4 How does the various departments" staff of the institute interact in undertaking inter-disciplinary research? Cite examples of successful endeavors and challenges faced in organizing interdisciplinary research.**

Interdisciplinary National conference is conducted every year. Two to three departments work together for the successful organization of the conference. For example : The Bio-Technology and Chemical department join together to conduct the conference, The Electronics and Communication department and The Electrical and Electronics Department join together to conduct the conference. This event acts as a joint venture for the development and learning of new ideas.

**3.2.5 How does the institution ensure optimal use of various equipment and research facilities of the institution by its staff and students?**

There are separate lab assistants in each and every lab, they work even after the Institution hours. The Staff and the Students can utilize the facilities provided by their respective departments even after regular academic time schedule to carry out their research. The research labs and their equipments are always open to all faculty and students for their projects. Our central library provides open access to various leading international journals for the students and faculty. High speed internet connectivity has also been provided in all departments to help them review their academic as well as research programs.

**3.2.6 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facility or research centers? If “yes” give details**

Yes. The institution has received grants from research centers to conduct seminars and workshops. The institute has signed MOUs with some industries and other agencies for promoting training, research and extension activities in technical education.

**MOUs signed**

S. No.	Title	Industry / institution
1	Emc <sup>2</sup> academic partner	Emc <sup>2</sup>
2	Academic partner with Manjra soft for cloud computing and research	Manjra soft – aneka software , Australia
3	For setting up centre for robotics & embedded systems excellence (crese).	Icarnegie inc., (carnegie mellon university pittsburgh, usa ) & technophilia systems Pvt. Ltd., Mumbai

**3.2.7 List the support provided to the faculty in securing research funds from various funding agencies, industry and other organizations. Provide details of ongoing and completed projects and grants received during the last four years.**

The institution provides all the necessary financial assistance, computer assistance, photocopying facilities etc., for the preparation of the project proposals. Further in the case of funding agency, the chief-investigator is required to make the presentation of the project proposal and give clarifications. The necessary travel and other expenses in that regard are provided by the institute.

Nature of the Project	Duration Year From To	Title of the project	Name of the funding agency	Total Grant		Total grant received till date
				Sanctioned	Received	
<b>Major projects</b>						
RPS	2013-2016	A Study of Flow through Porous Media in Converging	AICTE	15,65,000	13,35,000	Rs. 30,35,000
Fast Track	2013-2016	Development of eco-friendly synthetic methods for organic compounds of commercial	DST-SERB	25,00,000	17,00,000	

### 3.3 Research Facilities

#### 3.3.1 What are the research facilities available to the students and research scholars within the campus?

Every lab functions till 5.00 p.m, so even after College hours, the students and research scholars are permitted to work in their respective labs for their research projects and publications of their works. College provides fully equipped laboratory facilities in every department to undertake basic research by Students.

S.No.	Dept	Name of equipment	Equipment specifications
1	CSE	Multiserve Access Gateway	Cisco 1841
2	CSE	LAN Trainer Hardware	L-SIM LANprotocol
3	ECE	FPGA Kit	SPARTAN III
4	ECE	Tanner Software	T-Spice Pro-12
5	CSE	Mentor Software	FPGAKit
6	MCA	Numeric UPS	20 KVA
7	BioTech	Gel Documentation system	IUVT-01 - GENEI
8	BioTech	UV-VIS Spectrophotometer	SPEC-01- ELICO
9	BioTech	Bioreactor	BR-01- PISCES
10	BioTech	Fermentor	FM – 001
11	BioTech	Sonicator	SONI - 01
12	Chemistry	FTIR	JASCO

#### 3.3.2 What are the institutional strategies for planning, upgrading and creating infrastructural facilities to meet the needs of researchers especially in the new and emerging areas of research?

The institute upgrades itself with the latest technologies and provides all the necessary facilities for research to support faculty and students. It has well established laboratories to cater to the needs of advance research in emerging

fields of science, Engineering and technology. All the laboratories are fully equipped with latest equipments. Some departments apply for research funding through government agencies to improve the infrastructure and laboratory facilities.

**3.3.3 Has the institution received any special grants or finances from the industry or other beneficiary agency for developing research facilities?? If “yes”, what are the instruments / facilities created during the last four years.**

Yes. The department of Chemistry has received research funding from DST, Government of India and facilities are created for green synthesis of nano particles and installed a new Fourier Transform Infrared Spectroscopy (FTIR).

**3.3.4 What are the research facilities made available to the students and research scholars outside the campus / other research laboratories?**

- ❖ Anna University recognized research centre for Chemistry was established in 2012. Many research activities were initiated for students and faculty. Research oriented softwares were purchased for real time project work.
- ❖ UG and PG students are encouraged to do their project work at Research organizations and Industries.
- ❖ Faculty members who have registered for PhD programme are allowed to avail Anna University research facilities.

**3.3.5 Provide details on the library/ information resource center or any other facilities available specifically for the researchers?**

Carpet area of library(inm <sup>2</sup> )	900 sqm
Reading space(inm <sup>2</sup> )	400 sqm
Number of seats in reading space	120
Number of users(issue book) per day	130(Average)
Number of users(reading space)per day	200(Average)
Timings: During working day, weekend, and vacation	Week day 7.45am to 4.45pm
Number of library staff	5
Number of library staff with a degree in Library	5 No's, All staff with M.L.I.S
Records Bar coding used	AVAILABLE

**Titles and volumes per title**

Number of titles:	10752
Number of e-books:	40000
Number of volumes:	43010

**Library expenditure on books, magazines/journals, and miscellaneous content**

Year	Expenditure			
	Books	Magazines/journals (for hardcopy subscription)	Magazines/journals (for softcopy subscription)	Misc. Contents
2012-13	15,97,750	2,92,410	15,50,448	75,000
2013-14	14,04,203	2,69,078	15,50,448	58,000
2014-15	10,48,328	2,82,707	11,500	60,000
2015-16	4,50,446	4,02,464	11500	50,000

**3.3.6 What are the collaborative research facilities developed/ created by the research institutes in the Institution For eg. Laboratories, library, instruments, computers, new technology etc.**

With the help of 11 research parks in Vel Tech Dr.RR & Dr.SR Technical University, our laboratories have improved in their infrastructure and made research possible by utilizing facilities from them. The institute has also developed many research facilities for faculty and students through collaborative programs with Central Government organizations like AICTE & DST research funding.

**3.4 Research Publications and Awards**

**3.4.1 Highlight the major research achievements of the staff and students in terms of Patents obtained and filed (process and product)**

Patents obtained and filed are:

- ❖ Original research contributing to product improvement
- ❖ Research studies or surveys benefiting the community or improving the services
- ❖ Research inputs contributing to new initiatives and social development

Sl. No	Name of the Inventors	CBR No.	Reference Number / Application Type	Application Number	Title / Remarks
1.	Dr.D.Sivakumar Dr.B.S.Thandaveswara	23266	Ordinary Application (E-2/5457/2014-CHE)	6275/CHE/2014	Lumped Landfill Leachate Production Model For Leachate Flow
2.	Dr.D.Sivakumar Dr.B.S.Thandaveswara	23267	Ordinary Application	6276/CHE/2014	Analytical Model

	ara		(E-2/5458/2014-CHE)		Development On Leachate Volume Computation From Solid Waste
3.	Dr.D.Sivakumar	10161	Ordinary Application E-2/1515/2015-CHE	2572/CHE/2015	Adsorption, Isotherm And Kinetic Studies On Electroplating Industry Wastewater Using Albizia Lebbeck

S.No	Name	Department	Particulars
1	Dr.D.Sivakumar	Civil Engineering	Patent Number : 6275/CHE/2014 & 6276/CHE/2014
2	Dr.B.Vijayakumar	Chemistry	DST sanctioned research project on Development of eco-friendly synthetic methods for organic compounds of commercial importance (2013-2016)

**3.4.2 Does the Institute publish or partner in publication of research journal(s)? If “yes”, indicate the composition of the editorial board, publication policies and whether such publication is listed in any international database?**

-NO- Institute is not a partner in publishing of any research journal



### 3.4.3 Give details of publications by the faculty and students:

Dept/ Year	2013-14		2014-15		2015-16	
	Students	Faculty	Students	Faculty	Students	Faculty
ECE	1	9	1	20	5	40
EEE	21	12	24	12	22	7
CHEM	0	7	6	25	1	10
MECH	1	6	12	33	7	7
CSE	1	10	1	12	40	53
IT	7	13	4	8	5	6
BT	8	16	4	11	7	17
CIVIL	13	9	85	32	45	51
MBA	5	2	39	2	65	9
MCA	4	5	10	15	12	15
S&H	0	13	0	28	0	27
<b>TOTAL</b>	<b>61</b>	<b>102</b>	<b>186</b>	<b>201</b>	<b>209</b>	<b>242</b>

### 3.4.4 Provide details (if any) of research awards received by the faculty. 2012-2013 (in Rupees)

Our institution provides incentives to faculty for every international publication and a percentage oriented incentive for every research funds received. Our faculty has received many honors and recognitions from professional bodies

1. Dr.H.Sekar Babu has received “Best Teacher Award - 2014” organized by Education Today, Pondicherry
2. Dr.Arokiyaraj has received “Best Teacher Award - 2013” organized by Education Today, Pondicherry
3. Dr.B.Vijayakumar has received the “Young Scientist award” from DST.

### **3.5 Consultancy**

#### **3.5.1 What is the stated policy of the institution to promote consultancy?**

##### **How is the available expertise advocated and publicized?**

The Departmental Advisory Board Committee meeting is an event where the the faculty will be exposed to the experts from industry and academics. Similarly in workshops, seminars and guest lecturers the institution make them to interact to encourage our faculty members to undertake consultancy services. Such interactions help the faculty to update with external experts and thus their expertise is publicized.

Details of the policy to share the benefits between institution and individual

- ❖ For availing institutional facilities: 100% percentage to College, 100% percentage to individual
- ❖ For not availing institutional facilities: 7% percentage to College, 5% percentage to individual
- ❖ The policy for private consultancy is different from the policy for government consultancy.
- ❖ Procedure for making available the expertise details to the faculty members of departments.
- ❖ Head of the department contacts expertise for rendering consultancy services
- ❖ A formal letter is written to the industry stating availability of institutional facilities for consultancy
- ❖ The person associated with the consultancy work is notified and information will be collected from him.

#### **3.5.2 How does the institution encourage the staff to utilize their expertise and available facilities for consultancy services?**

- ❖ Our faculty members are given on duty to visit various industries, identify their problems and provide solutions.

- ❖ Faculty members are actively involved in industry relationships in providing turnkey solutions.
- ❖ Regular plyers are sent to different organizations stating our expertise in their respective area of requirement.
- ❖ By reducing the Academic workload of faculty involved in consultancy works.
- ❖ By sponsoring the faculty to attend important workshops and seminars arranged by the leading technology consultants in relevant fields.
- ❖ Offering monetary benefits to faculty involved in consultancy as perThe Institution policy.
- ❖ Faculty members are permitted to utilize the infrastructure and lab facilities for research and to utilize software for solving and analyzing their consultancy projects after College hours as well as on holidays.

### **3.5.3 List the broad areas and major consultancy services provided by the institution and the revenue generated during the last four years.**

Our faculty members are given on duty to visit various industries, identify their problems and provide solutions. Faculty members are actively involved in industry relationships in providing turnkey solutions. Regular plyers are sent to different organizations stating our expertise in their respective area of requirement.

College encourages institute industry interaction for various research activities as well as students' internship programmes. The Institute invites experts from various industries to provide guest lecture to students and faculty members to update their knowledge on recent trends in their respective fields. MOUs are signed between industries and our institute to impart knowledge

sharing and consultancy services.

Title of the project	Funding agency	Amount in rs
Planning and scheduling	Napc limited	1,50,000
Soil bearing capacity test	Vel tech trust	1,40,000
Estimation and quantity survey	Vel tech trust	1,20,000
Ground water testing	Dynamic tech	75,000
Proposal of grade separator	Stup consultant	2,50,000
Surveying of land	New gen instrument	1,20,000
Design and analysis for building	Vel tech trust	1,25,000
Engine valves division	Rane engine valve ltd.	1,50,000
Manufacturing of injectors	Delphi tvs	2,00,000
Fuel tank manufacturing	Ragam metal products private limited	2,00,000
Dashboard instrument	Pricol ltd.	1,50,000
Composite materials for transmission case	Tractor and farm equipment ltd.	1,30,000
Sheet metal welding	Mrp limited	2,00,000
Composite switches	Lucas indian service ltd	1,50,000
Welding (mig)	Brakes india ltd.	1,50,000
Machining	India piston rings	1,30,000
Composite materials	Ashok leyland	2,40,000
Website designing & maintenance	Vi microsystems	35000
Website designing & maintenance	Aadhityaa tech	32000
Erp software	Uniq technologies	20000
Website designing & maintenance	Carrer soft solution,	25000
Erp software	Indoasian Novateur electrical & digital systems pvt.ltd.,	25000
Designing and developing a real estate	Global iwebbs	26000

website		
Utility form pvt. Ltd	Payroll processing system	20,000
M/s.k.n. Vending services	Coffee vending machine embedded system	37,945
Apexis private limited	Web page creation and maintenance	5,000
Bestow packaging pvt ltd	Attendance monitoring system	13,000
Pantech solutions	Ensuring confidentiality with concurrent access by providing dbaas to cloud database	23,000
Globarena	Caps-candidate positioning and spotting	29,000
Uniq technologies	Smart mobile status recovery	20,000
Aadhitya infomedia solutions	Biometric system	32,000
M/s.immanuel heat treaters	Attendance monitoring system	90,800
Chase technology Avadi	Data hiding in encrypted message	30,000
Blue ship technologies	Adhoc network for aircraft landing	50,000
Apexix global network t.nagar	Monitoring scheme based on android smart phone	35,000
G tech solution T.nagar	Vehicle control using brake throttle sensor and servo actuator unit	30,000
Orchid systems Valasaravakkam	Performance evaluation methodologies for historical document image binarization	25,000
Chase technology Avadi	Design and implementation of eco-bot using smart host microcontroller	25,000
Pantech solutions T.nagar	Wireless camera monitoring and harmful gas detection system	30,000
Apexix nungambakkam	Automotive image tagging using viola johns algorithm	35,000
Safety and security systems	Fpga implementation of highly reconfigurable paralld prefix adder	30,000

Nungambakkam	based mac for dsp applications	
A.k.s engineering pvt.ltd padi	Animal detection& moisture sensing using dip & wireless communication	20,000
Safety and security systems Nungambakkam	Human age estimation& alcohol detection for vehicle access	18,000
Orchid systems, valasaravakkam	Image copy -move forgery detection using affine transform	19,000
Advantech instruments and services, arumbakkam	Bone conductive hearing aids	40,000
A.k.s engineering pvt.ltd padi,chennai	Office automation using vb-excel program	20,000
A.k.s engineering pvt.ltd padi,chennai	Electronic notice board using gsm technology	30,000
Chase technologies	Motor fault detection using mems sensor	2,45,000
Deccan enterprices ltd	Fault detection of underground cable	1,70,000
Bhagayalakshmi industries	solar electric lights	3,50,000
Mnr electricals	Inspection of street lighting works	1,80,000
Brakes india ltd	Solenoid valve localization feasibility and cost optimation	5,60,000
Advantech	Reverse metering for domestic energy generation	4,40,000
Erection and commissioning	Penchant agro product	72,000
Quality control	Penchant agro product	48,000
Unit operation quality control	Nizar industries private limited,andipatti	84,000
Quality control	Penchant agro product	48,000
Unit operation quality control	Nizar industries private limited,andipatti	84,000
Green earth technologies	Papain extraction technology	75,000
Marina labs	Histo pathology studies	20,000
Amrutha foods, hyderabad	Marine aquarium	20,000
Armats biotek training & research institute	Biomarker screening	18,000
Liberty aquarium	Fresh water ornamental fish farm	60,000

Mercury manufacturing company ltd, tambaram	Strategic plan	40,000
Majestic engineering, ambattur industrial estate	Performance appraisal	30,000
Annai dates	Market potential	30,000
Sri narayana fireworks industries ltd,sivakasi	Swot analysis	60,000
Madras radiators and pressing ltd, gummudippondi	Financial management	40,000
Sri narayana fireworks factory pvt ltd,sivakasi	Swot analysis	70,000
Majestic engineering, ambattur industrial estate	Share trading	30,000
Sakthi software solutions,chennai	Performance appraisal	40,000
Sri narayana sparkles industries pvt ltd,sivakasi	Strategic plan	60,000
Global techo solutions	A multichannel streaming system based on clustered social relationship	73,000
Googol soft	Transparent user identity verification for secure internet services	27,000
Midhras it solutions	Controlling denial of service attacks using clock drifts	28,000
Netgene technologies	Finding experts in collaborativ e environment for gaining better knowledge	72,000
Ilogix	Certificateless effective key management in dwsn	65,000
Globin technologies	Secure multiplex data sharing for quick batch in cloud computing	35,000
Midhras it solutions	Scalable and effective audit services for storages data in clouds using iht	60,000
Globin technologies	Privacy-preserving multiple storage with multiple-sharing	40,000

### **3.6 Extension Activities and Institutional Social Responsibility (ISR)**

#### **3.6.1 How does the institution promote institution-neighborhood-community network and student engagement, contributing to good citizenship, service orientation and holistic development of students?**

- ❖ The Institute has an YRC unit which inculcates the spirit of service in the students by conducting various programmes like blood donation camps etc. The students of various departments form social service groups and take up service activities independently with the guidance of the faculty.
- ❖ The Institution organizes personality development programmes for the students and faculty by various philanthropic /service organizations like RS trust, YRC club, NCC etc.,
- ❖ The placement cell also organizes programmes for overall student development by arranging guest lectures by experts from industry on the topics like leadership, team work etc.
- ❖ The entrepreneurship development cell also organizes various programmes which motivate the students to become job providers rather than job seekers.
- ❖ All such activities develop a sense of responsibility in the minds of students towards social causes.
  - ✓ Annadhanam
  - ✓ Organ donation awareness camp
  - ✓ Renovation of library
  - ✓ Improvement in sanitation facilities for a school (Morai village).
  - ✓ Beach and neighborhood cleaning
  - ✓ Saplings plantation in and around Avadi.



### **3.6 What is the Institutional mechanism to track students' involvement in various social movements' activities which promote citizenship roles?**

Mechanism to track students' involvement in various social movements

- ❖ The Head of the Department keeps a track of students' activities which is relevant to social movements.
- ❖ Any social activity taken up by the students will be in consultation with the respective Heads of the Departments and Director of the Institution monitors the activity on site.
- ❖ Mechanism to track student activities which promote citizenship roles
- ❖ For every 15 students, a mentor is assigned by the respective head of the department
- ❖ A register is maintained to record co-curricular and extra-curricular activities. The mentor permission is sought for participation in an event.
- ❖ If the student gets Best prize or First place the mentor nominates the student to the Head of the department to verify if the achievement is academic or non-academic.
- ❖ Award for the student/ students is decided with the permission of the Principal
- ❖ If students are entitled to get combined prizes, they are awarded suitably.

#### **3.6.3 How does the institution solicit stakeholder perception on the overall performance and quality of the institution?**

- ❖ Through the conduct of parents meetings, feedback collection from parents every year and suggestions are taken into cognizance for further development.

- ❖ The Institution takes feedback from recruiters during campus placement and utilizes them to hone up the skills of the students.
- ❖ The Institution Management takes decisions and policies keeping in view the perceptions of all stake holders and recommends to the Governing Body.
- ❖ A registered Alumni association of the Institution has been established which provides feedback on College. An alumni meet has been conducted every year and their career growth is monitored. They are also extending their activities by interacting with present students in the form of lectures on placement opportunities and what the industry expects from them and what are the skills required in the industry of their domain.
- ❖ The details of the interactions in order to get the perception of students are as follows :

Name of the event	Frequency of meeting
Alumni Association	Twice in a year
Board of Governance	Twice in a year
Parent -Teacher meeting	Twice in a year
Industry meeting	Whenever the institution meets with the industry person

#### Major inputs from the stakeholders

1. Strengthening of industry institution relation
2. Students should in co-curricular activities
3. Students discipline related aspects are more important than the academic related aspects
4. Students should be more holistic

**3.6.4 How does the institution plan and organize its extension and outreach programmes? Providing the budgetary details for last four years, list the major extension and outreach programmes and their impact on the overall development of students.**

The Institute had organized the outreach programs like “Swatch Bharath”, “Yoga Programs”, “Anti Tobacco awareness Programme”, “Organ Donation Awareness “and “Blood Donation Camps” etc., under the governance of YRC and NCC cells.

Year	Budget used for	Budget
2015-16	NCC AND YRC	Rs.135000/-
2014-15	NCC AND YRC	Rs.109000/-
2013-14	NCC	Rs.28000/-

**Annexure –A13 NCC and YRC Achievements.**

**3.6.5 How does the institution promote the participation of students and faculty in extension activities including participation in NSS, NCC, YRC and other National/ International agencies?**

The policy of the institution regarding the extension activities is mandatory. Participation in NCC, YRC or other National/ International agencies event, to make each student to get benefitted is practiced. The benefits available to participants are

- ❖ Institutional awards are given by College to performing students every year
- ❖ Financial support is given by the institution.
- ❖ Our students attend regular camps throughout India and participate in Independence Day and Republic Day parades at New Delhi.
- ❖ Our students are recognized and rewarded for their performance and participation.

**3.6.6 Give details on social surveys, research or extension work (if any) under taken by the College to ensure social justice and empower students from under-privileged and vulnerable sections of society?**

- ❖ Our institute facilitates our neighborhood people to undertake organic farming.
- ❖ Physically Challenged students are given special care and allowances by our institution.
- ❖ Our institution provides scholarship for under privileged students.

**3.6.7 Reflecting on objectives and expected outcomes of the extension activities organized by the institution, comment on how they complement students' academic learning experience and specify the values and skills inculcated.**

By inculcating ethics and moral values inside students, our institution makes it a point to enhance the values for their bright future.

S.NO	Co-Curricular Activity	Outcome
1	IEEE	Manuscript drafting
2	ISTE	Manuscript drafting, Effective Oral communication
3	Workshop	Knowledge Aquistation
4	Inplant Training	Knowledge Aquistation, hands on training
5	Industrial Visit	Exposure to contemporary industrial practices
6	Symposiums/Conferences	Manuscript drafting, Effective Oral communication

**3.6.8 How does the institution ensure the involvement of the community in its reach out activities and contribute to the community development? Detail on the initiatives of the institution that encourage community participation in its activities?**

Organizing short term technical/Non technical Courses for lower income strata people. This activity will bring financial prosperity to the participants. Our institution actively involves the local people regularly during their green initiatives like tree plantation, neighborhood cleaning and awareness campaigns.

- 1) Construction of community marriage hall for the benefit of morai village people
- 2) Conducting Computer awareness programs for neighbor rural areas people.
- 3) Production of bio fertilizer techniques (Vermi Compost) to farmers.
- 4) Recent improvement in biogas production using farmed algae (Azolla).
- 5) Bio remediation of polluted ponds.
- 6) Awareness of sewage treatment.
- 7) House hold water treatment.
- 8) Awareness of rainwater harvasting preparation.
- 9) House hold soap/detergent/phenyl manufacturing.
- 10) Motor pump repair on their own.

**3.6.9 Give details on the constructive relationships forged (if any) with other institutions of the locality for working on various outreach and extension activities.**

The Institution has constructive relationships with neighbouring rural areas and conducted various camps regarding awareness programs and other.

1. Tobacco awareness programme.
2. Yoga programme.
3. Swatch bharaat programme
4. "Vote" awareness programme.
5. Fire extinguisher awareness programme.
6. Blood donation camp.
7. Tree plantation.

**3.6.10 Give details of awards received by the institution for extension activities and/contributions to the social/community development during the last four years.**

- i. ISTE Best member award.

Awarded as "Best Social Upliftment Award" for contributing to MORAI village welfare, through

- ii. Production of bio fertilizer techniques (Vermi Compost) to farmers.
- iii. Recent improvement in biogas production using farmed algae (Azolla).
- iv. Bio remediation of polluted ponds.

### 3.7 Collaboration

**3.7.1 How does the institution collaborate and interact with research laboratories, institutes and industry for research activities. Cite examples and benefits accrued of the initiatives collaborative research, staff exchange, sharing facilities and equipment, research scholarships etc.**

The interaction of the institution with the research laboratories and industry:

Kind of interaction	Details of collaboration /	Benefits accrued
Memorandum of Understanding	Sharing of Consultancy and research facilities	Industrial exposure to faculty and students

Benefits accrued of the initiatives of collaborative research:

- ❖ Collaboration with industries and external research laboratories results in students' industrial visits, summer internships and students projects.
- ❖ Collaboration with industries helps in conducting placement training programmes, personality development and other soft skills.
- ❖ Deputing faculty members for exposure to industrial practice, in plant training and industrial visits for students
- ❖ Guest lectures by industry experts on state of art technologies
- ❖ Association with institutions, Chennai to arrange Teacher Training Programs on "Teaching – Learning processes".

INDUSTRIAL VISIT COMPANY	DEPARTMENT	PLACE
Bioklone Oferr	BIOTECH	Navalur, Chennai
IIBAT		Padapai, Chennai
E.I.D-Parry (I) Ltd,	CSE	Nellikuppam

		Cuddalore District
The India Cements Limited	CIVIL	Ariyallur
Hatsun Agro Pdt	BIOTECH	Kancheepuram.
Kalpakkam Atomic Power Station	EEE	Kalpakkam
Kalpakkam Atomic Power Station		Kalpakkam
Neyveli Lignite Corporation		Neyveli
Neyveli Lignite Corporation		Neyveli
BSNL	ECE	Maraimalai Nagar, Chennai
BSNL RTTC		Maraimalai Nagar
Iv -573 Amalgamation Repco Ltd		Madavaram
Iv -573 Amalgamation Repco Ltd		Madavaram
Iv-601 MTC (Mtc)		Central Deport
Iv 603 Vikis Industry (P) Ltd		Nungambakkam
Madras Port Trust	MBA	Chennai

**3.7.2 Provide details on the MoUs/collaborative arrangements (if any) with institutions of national importance/other universities/industries/Corporate (Corporate entities) etc. and how they have contributed to the development of the institution.**

S. No.	Title	Industry / institution
1	Students project	Ramco steels Pvt Ltd
2	Library n/w	Developing library n/w
3	Students training placement, Industrial visit	Co-India



4	Development of joint research proposals & projects Faculty & student development programmes Joint conferences, seminars and workshops.	Birdkit.com ( the ornithopter zone, rachester NY 14609 USA)
	In plant training Students project Joint seminar	HCL – CDC, Chennai
5	Industrial visit, guest lectures, final year academic project work, joint seminar, workshop, conference, placement	Bangalore integrated system solutions Pvt Ltd (biss)
6	Language lab. Initiative to give training to students to improve their employability.	Sutherland global services
7	Industrial visits, seminars, In-plant training, placements	Fl smidth Pvt Ltd
8	Placement training	Element k
9	Computer lab facilities for conducting entrance tests	Everonn education Ltd.

**3.7.3 Give details (if any) on the industry-institution-community interactions that have contributed to the establishment / creation / up-gradation of academic facilities, student and staff support, infrastructure facility of the institution viz. laboratories / library/ new technology /placement services etc.**

Industry-institution-community interactions:

- ❖ By inviting scientists and industrialists to deliver guest lectures and by organizing workshops and seminars, Industry-Institute Community interactions takes place.

- ❖ To meet the technological needs of industry and society, faculty and students are trained.
- ❖ Awareness on importance of collaborative research projects and live projects for students is created by inviting eminent scientists and industrial personnel.
- ❖ Both faculty and students are benefited by organizing Industry oriented workshops/ Seminars wherein they gain hands-on experience and industrial exposure.
- ❖ These are the lists of industries / organization through which we have succeeded in getting placements for the students

- ✓ Indian Navy
- ✓ Tech Mahindra Ltd
- ✓ Kone Elevator India Pvt Ltd
- ✓ Zoho Corporation Pvt Ltd
- ✓ Wipro Technologies
- ✓ Cognizant Technology Solutions
- ✓ Celia InfoTech Software Solutions Pvt. Ltd
- ✓ Web Step India
- ✓ IBM India
- ✓ Jaro Education
- ✓ Kone Elevator India Pvt Ltd
- ✓ Bajaj Capital
- ✓ Tech Mahindra Ltd (BPO)
- ✓ Nile Stream Info Technologies Pvt Ltd
- ✓ CommVault Systems

- ✓ MphasiS
- ✓ OSI Consulting (OSIUS)
- ✓ SIM Technologies Pvt Ltd
- ✓ L&T Infotech
- ✓ Housing Home Pvt Ltd
- ✓ Glenwood Micro Systems Private Limited
- ✓ Hexaware Technologies
- ✓ Nakuri.com
- ✓ TNQ Books & Journals P Ltd
- ✓ Sanmar Group
- ✓ Shriram Value Services Pvt. Ltd
- ✓ Vortex Engineering Pvt. Ltd
- ✓ Ample Technologies Private Limited (Apple)
- ✓ Quest Global
- ✓ Lucid Software Limited
- ✓ Sundaram Clyaton
- ✓ Maestro Steel Detailing Private Limited
- ✓ Infosys Technologies Limited
- ✓ Cognizant Technology Solutions
- ✓ Indian Army
- ✓ Angel Broking Pvt Ltd
- ✓ Covenant Consultants Pvt Ltd
- ✓ M R F Ltd
- ✓ Covenant Consultants Pvt Ltd
- ✓ IBM India

- ✓ Infosys BPO Limited
- ✓ SrinSoft Technologies Pvt Ltd
- ✓ IBM India
- ✓ NTT Data
- ✓ HP - Hewlett-Packard
- ✓ Shasun Pharmaceuticals Limited
- ✓ Aditya Trading Solutions Pvt Ltd
- ✓ Cognizant Technology Solutions
- ✓ Cognizant Technology Solutions
- ✓ Tech Mahindra Ltd
- ✓ Computer Science Corporation Limited
- ✓ 42 Hertz Software India Private Limited
- ✓ ICICI Securities Limited
- ✓ Athenahealth, Inc
- ✓ 135 Tech Labs Pvt. Ltd
- ✓ Lucid technologies & Solutions Pvt. Ltd
- ✓ Citrisys Solutions Ltd
- ✓ Hexaware Technologies
- ✓ The Royal Bank of Scotland
- ✓ Infosys Technologies Limited
- ✓ India Japan Lighting Pvt Ltd
- ✓ Systech Solutions, Inc
- ✓ First Flight Couriers Ltd
- ✓ SrinSoft Technologies
- ✓ HDFC Bank

- ✓ Pon Pure Chem (P) Ltd
- ✓ Dell
- ✓ The New Indian Express
- ✓ Rajsriya Automotive Industries (P) Ltd
- ✓ Object Frontier Software Pvt Ltd
- ✓ Reliance Retail Ltd
- ✓ India Cements Capital Ltd
- ✓ L&T ECC
- ✓ Pointel Solutions
- ✓ Data Track Pvt Ltd
- ✓ Rialto Engineering Pvt. Ltd
- ✓ Harley-Davidson Motor Company
- ✓ SAEINDIA
- ✓ Rameshwar Engineering
- ✓ Serco Global Services
- ✓ Dymos Lear Automotive India Pvt Ltd
- ✓ IBM India
- ✓ Reliance Anil Dhirubhai Ambani Group
- ✓ URC Construction Pvt Ltd
- ✓ WukiLabs Technologies
- ✓ Rajsriya Automotive Industries (P) Ltd
- ✓ Glenwood Micro Systems Private Limited
- ✓ Young Buhmwoo India Company Pvt Ltd
- ✓ Roche Diagnostics India Private Limited
- ✓ EMRILL SERVICES LLC

- ✓ Addison & Co Ltd
- ✓ Changepond Technologies
- ✓ Flextronics International
- ✓ HCL BSERV
- ✓ FSS
- ✓ Embed UR Systems
- ✓ ING Vysya Bank
- ✓ Hitachi Consulting
- ✓ Maestro Steel Detailing Private Limited
- ✓ Genie Consultants Pvt Ltd
- ✓ Sobha Developers Ltd
- ✓ Prizm Payments Services Pvt Ltd
- ✓ Dong Sung Automotive India Pvt Ltd
- ✓ BNB Infotech Pvt. Ltd
- ✓ Client Scapez Technologies Pvt Ltd
- ✓ JMA IT Solutions
- ✓ Hakuna Matata Solutions Pvt. Ltd
- ✓ C - Tech Rc Design (I) Private Limited
- ✓ Young Buhmwoo India Company Pvt Ltd
- ✓ CGI Information Systems & Management Pvt. Ltd
- ✓ Mitosis Technologies Pvt. Ltd
- ✓ Kotak Mahindra Bank
- ✓ Tube Products Of India
- ✓ NIIT
- ✓ Mind Ocean Technologies Pvt Ltd

- ✓ SRM Technologies
- ✓ Tata Elxsi Limited
- ✓ Hyundai Mobis India Ltd
- ✓ KARYA Technologies
- ✓ Lakshmi Vilas Bank
- ✓ Serwell Medi Equip (P) Ltd

The following are the ideas contributed through industry-institution-community interaction:

- ❖ Smart Class rooms
- ❖ Better conduct of examination
- ❖ Use of the state of the art instruments in improves manner
- ❖ Establishment of infrastructure such as placement cell, Gym, Bank.
- ❖ Etc.
- ❖ Provision of social space for few students who get benefitted
- ❖ The impact created by the interactions are,

S.No	Details of interaction	Impact created
1	During visit by students	Made aware of state of Art facilities
2	During visit by faculty	Made aware of state of Art facilities

**3.7.4 Highlighting the names of eminent scientists/participants, who contributed to the events, provide details of national and international conferences organized by the Institution during the last four years.**

S.No	Name of the academicians and scientists/visitors	Designation	event
1	Dr.S.Shanmugasundaram	PhD, Professor, Transportation Division, CEG, Anna University	Conference/workshop/DAB meeting
2	Ms.Bhavana Chandar Das	Regional Manager, Octamec Engg.Ltd, Chennai.	workshop
3	Mr.A.Siva	Research Associate, Anna University, Chennai.	Guest lecturer
4	Mr.Muralitharan	Engineer, KKM Software, Chennai.	Conference/workshop
5	Dr.N.G.Anuthaman	Associate Professor, CWR, CEG, Anna University	Conference/workshop
6	Dr.R.Saravanan	Assistant Professor, CWR, CEG, Anna University	Conference/workshop
7	Dr.R.Sakthivadivel	Ph.D, Emeritus Professor, CWR, CEG, Anna University	Guest lecturer
8	Dr.A.R.Santhakumar	Emeritus Professor, Structural Engineering, IIT-Madras	Conference/workshop
9	Prof .Nammalwar.R	Professor, Ocean Engineering Dept, CEG, Anna University	Conference/workshop
10	Mr.C.Kamaraj	Scientist, CLRI, Chennai-25	Conference/workshop
11	Dr.R.Baskaran	Asso.Professor Anna University	Guest lecturer
12	Dr.T.Mala	Sr,Assist. Professor, Anna University	Guest lecturer
13	Dr.Dhananjay Kumar	Asso Professor Anna University	Guest lecturer
14	Dr.J.Indhumathy	Asso.Professor Anna University	Guest lecturer
15	Dr.Uday Baskaran	Professor Vel Tech Technical University	Guest lecturer
16	Mr.Thanasekar	Asst.Professor Anna University	Guest lecturer



17	Dr. Krishna Kumar	Associate Professor, Anna University	Guest lecturer
18	Dr.Abirami	Asst.Professor, Anna University	Guest lecturer
19	Dr.R.Baskaran	Associate Professor, Anna University	Guest lecturer
20	Dr.Chitrakala	Associate Professor, Anna University	Guest lecturer
21	Dr.Abirami	Asst.Professor, Anna University	Guest lecturer
22	Mr.Benjamin	Asst. Professor, Anna University	Guest lecturer
23	Dr.Rathna Kannan	Asst.Professor, Anna University	Guest lecturer
24	Dr.K.Gunaseelan	Assistant Professor, Annauniversity,Chennai	Conference/workshop
25	Dr.P.Nirmal Kumar	Associate Professor, Annauniversity,Chennai	Conference/workshop
26	Mr.M.Ravindran	Sub Divisional Engineer, RGM TTC, Chennai	Conference/workshop
27	Mr.V.Sakthivel	Sub Divisional Engineer, RGM TTC, Chennai	Conference/workshop
28	Mr.G.Kanagaraj	Divisional Engineer, RGM TTC, Chennai	Conference/workshop
29	Mr.S.Rajakumar	Sub Divisional Engineer, RGM TTC, Chennai	Conference/workshop
30	Mr.M.Ravindran	Sub Divisional Engineer, RGM TTC, Chennai	Conference/workshop
31	Mrs.D.Vaidehi	Sub Divisional Engineer, RGM TTC, Chennai	Conference/workshop
32	Mr.T.Senthil Kumar	Sub Divisional Engineer, RGM TTC, Chennai	Conference/workshop
33	Dr. B. Krishna Kumar	Associate Professor, Anna University, Chennai	Guest lecturer
34	Dr. Gunaseelan	Associate Professor, Anna University, Chennai	Guest lecturer
35	Dr. P. Nirmal Kumar	Associate Professor, Anna University, Chennai	Guest lecturer
36	Dr. Dhananjay Kumar	Associate Professor, Anna University, Chennai	Guest lecturer

37	Dr.Dhananjay Kumar	Associate Professor, Annauniversity,Mit, Chennai	Guest lecturer
38	Dr. C.Sharmeela	Associate Professor, Anna University, Chennai	Guest lecturer
39	Dr.Siva Kumaran	Professor, NIT, Trichy	Guest lecturer
40	Mr. P. Suresh	DGM-PCMS., Pricol Ltd., Coimbatore	Guest lecturer
41	Dr.K.Jayaraman	MIT,Anna University	Guest lecturer
42	Dr.K.MalarMohan	Anna University	Guest lecturer

**3.7.5 How many of the linkages/collaborations have actually resulted informal MoUs and agreements? List out the activities and beneficiaries and cite examples (if any) of the established linkages that enhanced and/or facilitated-**

<b>1</b>	Curriculum development/enrichment	1
<b>2</b>	Internship/On-the-job training	4
<b>3</b>	Summer placement	2
<b>4</b>	Faculty exchange and professional development	1
<b>5</b>	Research	2
<b>6</b>	Consultancy	13
<b>7</b>	Extension	5
<b>8</b>	Publication	2
<b>9</b>	Student Placement	2
<b>10</b>	Introduction of new courses	NA
<b>11</b>	Student exchange	2
<b>12</b>	Any other	15

### **3.7.6 Detail on the systemic efforts of the institution in planning, establishing and implementing the initiatives of the linkages/ collaborations. Procedure for following up with the person visiting from industry/Other institution**

The systemic planning is categorized as below:

- ❖ First and the foremost, our institute identifies the various industries related to different courses that are offered by us and our curriculum.
- ❖ The institute would organize meetings with the industries based on the requirements of specific department for research as well as consultancy.
- ❖ In-plant Training, Internship Program; Curriculum based Projects, Academic projects, Consultancy projects and so on are the Outcome of the meetings
- ❖ In order to facilitate the above activities, MoUs would be signed between the industry and the institution.
- ❖ Few industries would offer Placement opportunities for students based on the performance of students during their visit to industry.
- ❖ When the MoUs yield fruitful results, it would be decided to extend the MoUs further.

## **CRITERION IV: INFRASTRUCTURE AND LEARNING RESOURCES**

### **4.1 Physical Facilities**

#### **4.1.1 What is the policy of the Institution for creation and enhancement of infrastructure that facilitate effective teaching and learning?**

- ❖ Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College is established to promote strong sense of passion for education and commitment to build a better tomorrow and ensure overall development of the students. The institution is established in Avadi, Chennai.
- ❖ The institution's development of the infrastructure like classrooms, zero defective laboratories, seminar halls, tutorial halls, computer facility hall, library, auditorium, playgrounds and separate hostel for boys and girls is to enable a better ambience for teaching-learning process.
- ❖ Besides these things, each and every department has its own seminar hall, tutorial hall, library and computer Lab.
- ❖ In addition to these, students' health is taken into special care and medical facilities are available for everyone in the campus.
- ❖ Internet facility and Power supply are available in the campus.
- ❖ Additional infrastructure for all departments is created for Research & Development.
- ❖ Separate hostel accommodation is available for boys and girls.
- ❖ Institute maintains hygienic atmosphere, greenery within the campus with proper upkeep of amenities.
- ❖ Infrastructure created for sports and games
- ❖ Proper maintenance of amenities in the campus

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#### 4.1.2 Detail the facilities available for

a) Curricular and co-curricular activities – classrooms, technology enabled learning spaces, seminar halls, tutorial spaces, laboratories, botanical garden, Animal house, specialized facilities and equipment for teaching, learning and research etc.

S.NO	Infrastructure	No of rooms	Builtup area available of each room in Sq.mtrs
1	Classrooms	53	66 Sq.mtrs
2	Tutorial rooms	17	33 Sq.mtrs
3	Seminar halls	11	132 Sq.mtrs
4	Laboratories	83	66 Sq.mtrs
5	Drawing halls	3	132 Sq.mtrs
6	Central Library	1	900 Sq.mtrs
7	Auditorium	1	1000 Sq.mtrs
8	Conference Hall	1	33 Sq.mtrs

i) **Class rooms:** Our institution has 53 well – ventilated classrooms. The details of every Class room are given below:

- ❖ Area: 66 Sq.mtrs.
- ❖ Tables: 25
- ❖ Fans: 7
- ❖ Tube lights: 6

ii) **Technology Enabled learning facility:** Every department will be provided with OH Projector, and LCD Projector to use of technology enabled learning facility.

iii) **Seminar Hall:** Our Institution has 11 seminar halls, well-equipped with LCD projector, mic etc. Four seminar halls are fully air-conditioned. The details of each Seminar Hall is given below:

- ❖ Area: 132. Sq.mtrs.
- ❖ Individual chair: 140
- ❖ Fans: 14
- ❖ Tube lights: 8

iv) **Tutorial rooms:** Our institution have 17 Tutorial rooms which are used for special remedial classes for slow learners. The details of each Tutorial rooms are given below:

- ❖ Area:33 sq.m
- ❖ Table:10
- ❖ Fans:3
- ❖ Tube lights:2

v) **Laboratories/Workshops:** **The Institution** has totally 83 well equipped laboratories. All labs and workshops are maintained as per Anna University Curriculum with zero % deficiency and defects.

**vii) Specialized Facilities and equipment available for teaching, learning and research:**

Our institution provides specialized facilities like NPTEL videos of almost all courses and every department has LCD Projector and which they can use it in Seminar halls to enhance teaching and learning. If any faculty are in need of any special equipment for research propose, immediately institution will provide with the help of department advisory board representation.

**Annexure-A14 Major Equipment List**

**b) Extra-curricular activities – sports, outdoor and indoor games, gymnasium, auditorium, NSS, cultural activities, Public speaking, communication skills development, yoga, health and hygiene etc.**

**Sports, outdoor and indoor games, gymnasium**

Our institution encourages faculty and students to involve in various associations and cultural activities. A qualified Physical Director is available for sports and cultural activities. A gymnasium and yoga centre is available in hostels which is taking care by Physical Director and Hostel in-charge.

**NCC:** Various socially relevant services are done by students like blood donation camp periodically. Details of NCC are as follows:

- ❖ Area: Well furnished 33 Sq.mts.
- ❖ Fans: 02
- ❖ NCC was started in the year of 2013 with 35 volunteers. They participated in special camps across the district for doing social works and creating awareness programs. Social responsibilities such as Planting Trees, awareness program Anti- Tobacco Rally, Flood Relief Activity and AIDS awareness program are conducted.
- ❖ Number of students involving: 50 students

**Cultural Activities:** The Institution has carved out a special niche for itself in the field of cultural activities. The students are organizing & participating in many cultural activities like music orchestration, traditional dance, singing, script writing and enacting etc., during Annual day celebrations held every year in the Institution. The Institution has also been regularly participating in the zonal and inter zonal youth festivals. The Institution is also organizing an Annual Day function and

gamut of festival celebrations every year where the students participate with zeal in many cultural activities.

**Public speaking communication skills development:** Personality development programs are conducted in the Institution by experts from various industries which involves various activities like public speaking and communication skills development etc. Besides this, the Institution faculty also keep enriching the students with the art of communication skills.

**The following sports facilities available in our institution.**

Volleyball Court

Basketball Court

Tennicoit Court

Badminton Court

Table Tennis

Kabadi Court

Kho-Kho Court

Tennis Court

**4.1.3 How does the institution plan and ensure that the available infrastructure is in line with its academic growth and is optimally utilized? Give specific examples of the facilities developed/augmented and the amount spent during the last four years (Enclose the Master Plan of the Institution/ campus and indicate the existing physical infrastructure and the future planned expansions if any).**

**Plan and optimal utilization of the available infrastructure.**

Our Institution activities have been certified by the ISO 9001:2008 quality system. Common facilities like computer laboratory, library, Seminar halls etc. are utilized by all departments. Library has long working hours (07:45



AM to 05:00 PM) with internet facilities on all days including Saturday. Facilities/infrastructure have been developed/augmented to keep pace with its academic growth and the amount spent during the last four years.

Category	2012-13 Amount spent (lakhs)	2013-14 Amount spent (lakhs)	2014-15 Amount spent (lakhs)	2015-16 Amount spent (lakhs)
Building	3,19,16,315	1,85,56,166	3,98,68,029	2,92,29,050
Furniture	30,57,227	19,84,612	4,24,246	11,21,839
Equipment	49,03,147	48,81,342	4,54,460	12,79,074
Computers	28,31,057	22,56,067	65,48,988	7,40,000
Vehicles	-	5,17,000	-	11,40,000

#### **4.1.4 How does the institution ensure that the infrastructure facilities meet the requirements of students with physical disabilities?**

The institution has provided lift facility for the physically challenged students in all the High-storied buildings. The institution has also developed other facilities like ramp, wheel chair etc to all blocks.

#### **4.1.5 Give details on the residential facility within them various provisions available**

- ❖ Separate boys and girls hostels accommodating 516 students, named Vel Vinayaga Hostel and Goddess Padmavathi Ladies Hostel function for the outstation students.
- ❖ The hostels provide library, news-papers, gym, indoor and outdoor games.
- ❖ Safe drinking water and hot water facility is provided.
- ❖ Wi-Fi facility is provided for all students for their laptops and the hostels have been provided with central computer labs.

- ❖ 24/7 medical facility with ambulance is available in the hostels.
- ❖ Security guards are always available at the gates of the hostels.
- ❖ Canteens, stationery shop and parking space are available.
- ❖ Laundry and Spa facilities are available.

### **Staff Quarters**

Staffs are provided with fully furnished Quarters. Guest House and Bachelors accommodation are also provided.

#### **4.1.6 What are the provisions made available to students and staff in terms of health care on the campus and off the campus?**

First Aid kits are made available in all departments. Our institution provides medical insurance for staff. Institution has ambulance facility 24x7 for emergency cases. Two Nurses and a Doctor are available in hostel-nearby institutional hospital with well-equipped medical facilities.

#### **4.1.7 Give details of the Common Facilities available on the campus – spaces for special units like IQAC, Grievance Redressal unit, Women’s Cell, Counseling and Career Guidance, Placement Unit, Health Centre, Canteen, recreational spaces for staff and students, safe drinking water facility, auditorium, etc.**

- ❖ The institution has established IQAS, Entrepreneurship Development Cell, Women’s Empowerment Cell, Career guidance and Higher Education Cell for the welfare and development of the students’ future development.
- ❖ The institution has a placement cell which works all day for the students’ development and helps them to get placed in leading MNCs.
- ❖ Good hygienic food is available in canteens in addition to hostel

canteen inside the campus.

- ❖ Vijaya Bank, Vel Tech Branch functions within the campus with ATM facility.
- ❖ Safe drinking water is provided to students through water purifiers.
- ❖ Post office is available at 1km distance.
- ❖ College has also constructed an open and semi covered auditorium to conduct student activities
- ❖ College is equipped with medical room and ambulance facility

## **4.2 Library as a Learning Resource**

### **4.2.1 Does the library have an Advisory Committee? Specify the composition of such a committee. What significant initiatives have been implemented by the committee to render the library, student/user friendly?**

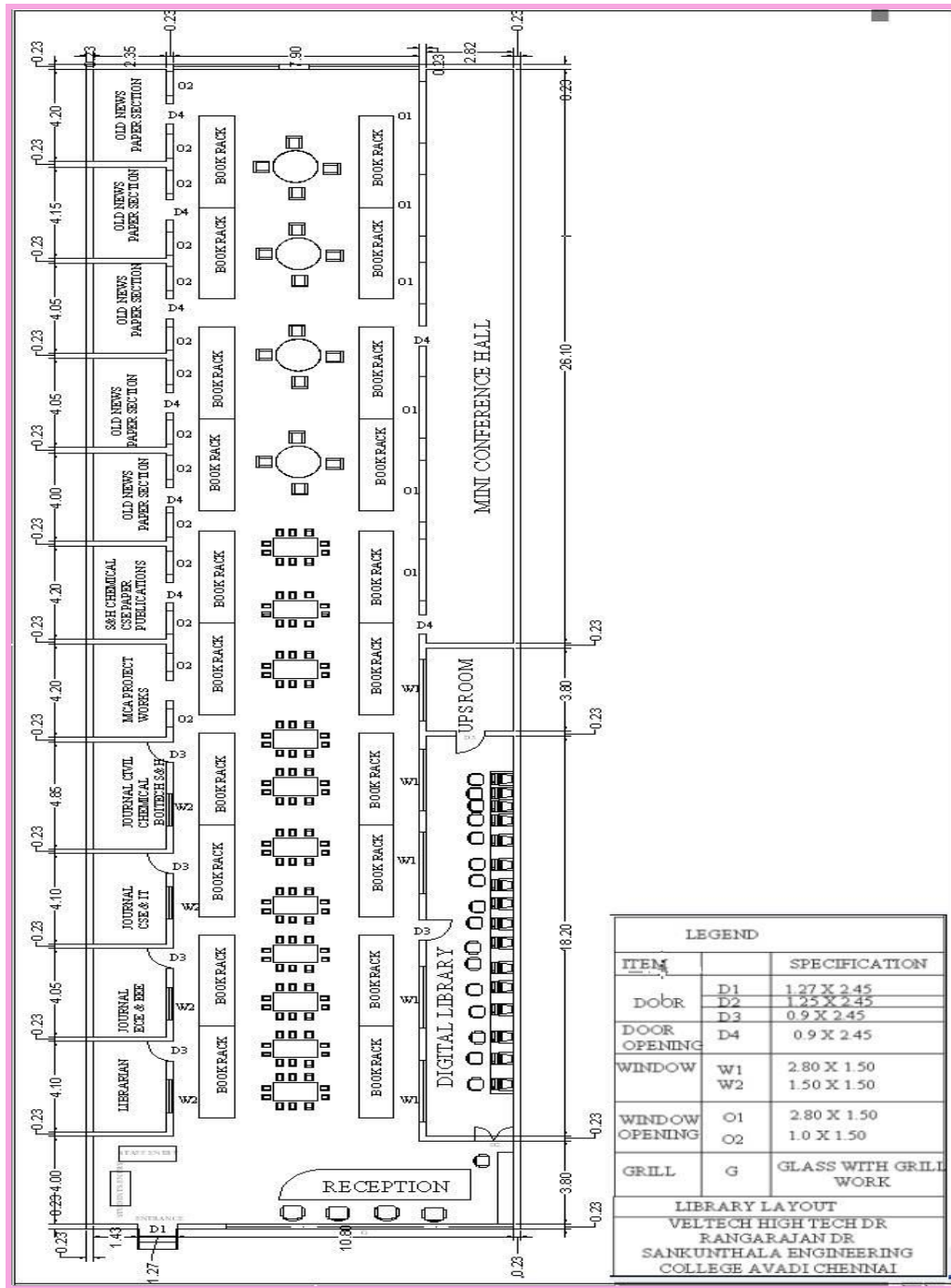
Yes, it has been headed by the library coordinator; each department has its own coordinator to ensure the availability of books for students and staff for the development of teaching and research. The Institution has a library advisory committee, composed of faculty from various departments; its aim is to ensure systematic functioning of library. The library purchase of additional books, journals, etc are the outcome of the suggestive measures of the advisory committee.

#### **Library advisory committee**

1. Principal.
2. Academic Dean.
3. All department HODs.
4. Library Head.

**4.2.2 Provide details of the following:**

- ❖ Total area of the library (in Sq.mtrs.) - 900 sq.mtrs
- ❖ Total seating capacity - 200
- ❖ Working hours- from 7.45am to 5:00pm
- ❖ Layout of the library (individual reading carrels, lounge area for browsing and relaxed reading , IT zone for accessing e-resources)



4.2.3 How does the library ensure purchase and use of current titles, print and e-journals and other reading materials? Specify the amount spent

on procuring new books, journals and e-resources during the last four years.

Purchase procedure:

- ❖ All books have been purchased by the library as per AICTE norms and Anna University Curriculum.
- ❖ The library data base has been updated each year as per the requirement of Anna University to include books and journals.

Library holdings	2015-16		2014- 2015		2013-2014		2012-2013	
	No's	Total Cost	No's	Total Cost	No's	Total Cost	No's	Total Cost
Text and Reference Books	1441	450446	4090	10,48,328	3823	14,04,203	4808	15,97,750
Journals/ Periodicals	101	4,02,464	101	2,70,080	101	2,69,070	102	2,92,410
E-resources	IEI, Delnet		IEE, Delnet	-	11	-	11	-
Total cost	8,52,910		13,18,408		16,73,273		18,90,160	

**4.2.4 Provide details on the ICT and other tools deployed to provide maximum access to the library collection?**

- ❖ **OPAC** - The Library is having Online Public Access Catalog (OPAC) facility.
- ❖ **Electronic Resource Management package for e-journals**  
Our Institution possess electronic resource management package for e-journals.
- ❖ **Federated searching tools to search articles in multiple databases**  
Our Institution have online access to journals and e-resources in our digital library, which consists of 15 computers.

❖ **Library Website**

Yes, Library has its own website attached with our College website.

❖ **Library automation**

Yes, Library automation is available.

❖ **Total number of computers for student access**

There are 15 computers for student access.

❖ **Total numbers of printers for student access**

There is a printer for student access

❖ **Internet bandwidth/ speed- 48 Mbps**

❖ **Institutional Repository**

The Institution has project reports of UG and PG courses and back volumes of periodicals.

❖ **Participation in Resource sharing networks/consortia(like In flibnet)**

The Library is having membership in DELNET, British Council Library, American Library, NPTEL-IIT MADRAS and Anna University Library.

**4.2.5 Provide details on the following items**

- ❖ Average number of walk-ins – approximately 200 per day
- ❖ Average number of books issued/returned – 300 books per month
- ❖ Ratio of library books to students enrolled – 14:1
- ❖ Average number of books added during last three years: 3100 books
- ❖ Average number of log into OPAC - 2 per day
- ❖ Average number of log into e-resources – 15 per day
- ❖ Average number of e-resources down loaded/printed - 4 per day
- ❖ Number of information literal cytrainings organized - one per semester

- ❖ Details of “weeding out” of books and other materials - Old newspapers are kept in safer place through proper channel. Old magazines are kept for at least two years and the same are done as above.

#### 4.2.6 Give details of the specialized services provided by the library

- ❖ **Manuscripts** – Handwritten course files and materials are available for students and faculty
- ❖ **Reference** - All reference books are maintained in proper way of easy access for both UG and PG students and faculty.
- ❖ **Reprography** - Reprography facility is available in library
- ❖ **ILL(Inter Library Loan Service)**  
ILL services in British Library, IITM, Anna University and Vel Tech Institutions are available.
- ❖ **Information deployment and notification (Information Deployment and Notification)**  
Other than our Institution Library, we are allowed access to Vel Tech University Library, Anna University Library British Library, IITM and College libraries in our group of institutions.
- ❖ **Download**  
All e-resources can be downloaded. NPTEL online and other resources are available
- ❖ **Reading list/ Bibliography compilation**  
The Institution has an electronic catalogue system
- ❖ **In-house/remote access to e-resources**  
The Institution gives In-house/ remote access to e-resources



❖ **Use orientation and awareness**

Facilities such as NPTEL videos are used to give special lectures to enhance learning.

❖ **Assistance in searching Databases**

OPAC is used to know the status of the book or volume of journal which has been issued.

**4.2.7 Enumerate on the support provided by the Library staff to the students and teachers of the Institution.**

Books are issued to staff and students at any time of the working hours of library. Books are made available as soon the Institution gives the requirement of text books or reference books. Digital library access is provided to access international professional bodies for getting e-journals or e-resources. Library remains open from 07:45 AM to 05:00 PM on all working days. Library also maintains a copy of previous years university questions papers and internal examination question papers. Library staffs help the students and faculty to take photocopy of books and other materials, if required.

**4.2.8 What are the special facilities offered by the visually/physically challenged persons? Give details.**

Library staffs offer the necessary assistance to select, borrow and return the library books for physically challenged persons.

**4.2.9 Does the library get the feedback from its users? If yes, how is it analyzed and used for improving the library services. (What strategies are deployed by the Library to collect feedback from users? How is the feedback analyzed and used for further improvement of the library services?)**

In order to improve the library services, feedbacks from the faculty and students are collected and then they have been analyzed in library committee meetings with planning department and remedial steps are taken to improve the services.

### **4.3 IT Infrastructure**

**4.3.1. Give details on the computing facility available (hardware and software) at the institution.**

The Institution has 1,030 computers configured with Core 2 Duo/Dual Core and Core i3 processors.

- ❖ **Computer-student ratio** -The computer-student ratio for PG is 1:2 and UG is 1:4
- ❖ **Standalone facility** - 230 systems
- ❖ **LAN facility** – 800 computers are connected with LAN with Internet facility.
- ❖ **Wi Fi facility** - Wi-Fi facilities are available in both hostels.
- ❖ **Licensed software**
  - System Softwares : 15 No.s
  - Application Software: 50 No.s
- ❖ **Number of nodes/computers with Internet facility**

More than 300 computers are accessed to Internet facility spread over different departments.
- ❖ **Intercom facility**

Each Department is equipped with Intercom facility.

❖ **Domain Email**

Each faculty and student is provided with domain Email ID.

**4.3.2 Details on the computer and internet facility made available to the Faculty and students on campus and off-campus?**

For the usage of WI-FI all faculty and students are provided internet with separate username and password. All departments are well equipped with computers, having the latest configuration & operating systems. They are provided to students for their laboratories, project works, etc. Internet facility [48Mbps] for students is available in all departments. Faculty is provided with systems and internet facility. There is a separate department to maintain the hardware and software of the Institution.

**4.3.3 What are the institutional plans and strategies for deploying and upgrading the IT infrastructure and associated facilities?**

Technology changes day by day, in keeping with its progress, the institution plans to develop the IT infrastructure by providing computer facility with internet of large bandwidth. And to deploy the e-governance maintenance system in management information system, and to alter the classroom to become smart class rooms. To develop e-learning and multimedia based educational modules for all courses.

**4.3.4 Provide details on the provision made in the annual budget for procurement, up gradation, deployment and maintenance of the computers and their accessories in the institution (Year wise for last four years).**

	<b>UP-GRADATION AND MAINTENANCE BUDGET (RS. IN LAKHS)</b>			
<b>ACADEMIC YEAR</b>	<b>2014-2015</b>	<b>2013-2014</b>	<b>2012-2013</b>	<b>2011-2012</b>
Spent amount (in Lakhs)	<b>30.35</b>	<b>36.03</b>	<b>29.66</b>	<b>27.49</b>

**4.3.5 How does the institution facilitate extensive use of ICT resources including development and use of computer-aided teaching/ learning materials by its staff and students?**

The institution has adequate computer facility by providing computers with internet facility for preparing teaching materials. For each department Computer facilities with internet are available for both staff and students. Students refer the systems for completing their assignments, research queries and get clarifications. Staff refers to their lecture topics through internet and updates their lecture notes and delivers the lectures effectively. The institution has provided a smart board, Wi-Fi facility for class rooms where the staff can connect the classroom to the virtual world. Digital library, NPTEL CDs' etc are available and they are used by the students and staff.

Seminar halls are also equipped to deliver the lectures through LCD projectors. The Lab Manuals of all Lab courses are prepared & the softcopy is sent to the students through their group email IDs.

**4.3.6 Elaborate giving suitable examples on how the learning activities and technologies deployed (access to on-line teaching - learning resources, independent learning, ICT enabled classrooms/learning spaces etc.) by the institution place the student at the centre of teaching-learning process and render the role of a facilitator for the teacher.**

- ❖ To make students attentive and to make them listen in class throughout section is a challenging assignment to every faculty. This can be done by making class sessions more attractive through teaching methodologies implementation and interactive teaching. The air conditioned seminar halls with PA system & projection systems cater to the needs of mass presentation.

- ❖ For better interaction, faculty will make lesson plan before the commencement of every semester/academic year, in which it has ICT enabled classrooms with internet and intranet facility.
- ❖ E-learning materials (Video and PPTs), and online materials from various reputed organizations and institutions are made available for students in library for easy understanding of the concepts.

**4.3.7 Does the Institution avail of the National Knowledge Network connectivity directly or through the affiliating university? If so, what are the services availed of?**

Yes, the services of NPTEL [National Programme on Technology Enhanced Learning] are used regularly. Resources like EDUSAT and DELNET are used to avail national knowledge Network Connectivity through Anna University.

**4.4 Maintenance of Campus Facilities**

**4.4.1 How does the institution ensure optimal allocation and utilization of the available financial resources for the maintenance and upkeep of the following facilities (substantiate your statements by providing details of budget allocated during the last four years)?**

STUDENTS ANNUAL INTAKE					
YEAR		2011-2012	2012 -2013	2013 2014	2014-2015
Amount spent (lakhs)	Land	-	-	-	-
	Building	-	366.73	39.66	-
	Furniture	17.58	15.91	5.37	13.02
	Equipment	12.52	8.92	12.48	14.02
	Computers	6.74	3.60	5.59	23.59
	Vehicles	15.26	0.20	22.24	150.00

#### **4.4.2 What are the institutional mechanisms for the maintenance and upkeep of the infrastructure, facilities and equipment of the Institution?**

The institution has separate teams for maintaining the campus green and to upkeep the infrastructure, facilities and equipment of the Institution.

##### **General hygiene**

Institution maintains campus with greenery by using a team of supervisors, sweepers which are sourced through an external agency. An administrative officer is in-charge of all buildings to monitor the work of this team. This team daily cleans the floors and swabs the corridors of all buildings before commencement of College work.

- ❖ Classrooms and other areas are swabbed daily.
- ❖ Restrooms are cleaned periodically.
- ❖ Roads inside the campus are cleaned every morning and evening.
- ❖ Plants trimming and gardening are done regularly by experienced gardeners.

##### **Security**

- ❖ For the students safety in our institution security is sourced through external security agency for 24x7x365 days in College premises

##### **Equipment**

- ❖ The Institution maintains all labs with nil deficiency and 0% defects, and upkeep stock register and verifies stock and infrastructural facilities like computers, desks , benches, fans, lights etc.,
- ❖ All departments are reported to give estimated annual budget for upgrading equipments and to buy consumables for labs and workshops

### **Computing Equipment**

- ❖ The Institution has separate department called Computer Maintenance Cell (CMC), for computer installations, checks and license renewals etc.,

### **Suggestions & Complaints**

- ❖ The Planning office checks the suggestions/ Complaints every day and takes action immediately, by informing the issue to Principal and Management

#### **4.4.3 How and with what frequency does the institute take up calibration and other precision measures for the equipment/instruments?**

The Institution has a centralized policy for upgrading the equipments and instruments when it is needed. For practices, Lab In-Charge takes dry run test for every experiment before commencement of semester to measure the precision of equipments. Minor repairs and adjustments are taken care of by Lab Technicians, who are trained by equipment manufacturers. Requirements are reported to the Principal and necessary actions are taken up.

#### **4.4.4 What are the major steps taken for location, upkeep and maintenance of sensitive equipment (voltage fluctuations, constant supply of water etc.)?**

##### **Electricity Supply:**

A Dedicated 11 KV Substation with three-phase electricity connection is available in this institution. An exclusive HT service with 500 KVA transformers is available in this institution premises which is operating by electrical maintenance department to ensure 24x7 power supply. The institution provides a panel board room, UPS for the computers, etc. to address the problems regarding voltage fluctuations. On every month in Tamil Nadu, one

day will be kept as Power Shutdown for EB maintenance and services. To overcome this, institution is provided with 2 Generators of 125 KVA and 250 KVA to ensure constant supply of electricity. The Institution has a provision for firefighting system for occupational safety and fire safety certificates were received. In each floor, a panel board of ELCB (Earth Leakage Circuit Breaker) & MCB (Miniature Circuit Breaker) is fixed to ensure the protection from short circuit and earth leakage.

**Constant Supply of Water:**

The Institution has overhead tanks on roof top of every buildings, and the tank will be filled 2 times every day. If consumption is more, it be filled 3 times every day. Water will be used for gardening purpose, cleaning and flushing purpose. The Institution has RO system to get purified water for drinking purpose. On every floor, water coolers are available for drinking purpose. The Institution has **PCB (Pollution Control Board) clearance certificate** for maintaining campus greenery and providing hygienic atmosphere in campus.



## **CRITERION V: STUDENT SUPPORT AND PROGRESSION**

### **5.1 Student Mentoring and Support**

**5.1.1 Does the institution publish its updated prospectus/handbook annually? If „yes“, what is the information provided to students through these documents and how does the institution ensure its commitment and accountability?**

Yes. The institution publishes its updated prospectus / handbook annually. The information includes:

- ❖ Vision and mission
  - ❖ Programme Educational Objectives
  - ❖ Message from Management & Principal
  - ❖ Profile of the departments & faculty
  - ❖ Courses offered
  - ❖ Admission Procedure
  - ❖ Academic calendar
  - ❖ Attendance Regulations
  - ❖ Evaluation Procedure (Internal & External)
  - ❖ Administrative committee
  - ❖ Disciplinary regulations
  - ❖ Other facilities like libraries, hostels etc.,
  - ❖ Training & Placements details
  - ❖ Industry collaborations
  - ❖ Achievements of the institution
  - ❖ Co-curricular and Extra-curricular activities
- ✓ The Vision and Mission of the Institution is clearly stated in the Academic Calendar, to convey the ideas of the institution to the students.
  - ✓ The handbook provides a detailed account of the members of the Teaching and Non-Teaching staff. The rules and regulations of the Institution are

stated clearly in the handbook. The book also explains the description of the location of The Institution and various courses offered and the approved intake.

Standard format is available to record their absence and it is maintained in the book. The soft copy of the 'Academic Calendar' is available in the Institution website for organizing intra-institution and inter-institution events for honoring the skills of the students and staff and creating an atmosphere where students get inspired to learn on their own and from others.

**5.1.2 Specify the type, number and amount of institutional scholarships / free ships given to the students during the last four years and whether the financial aid was available and disbursed on time?**

The institution provides financial assistance to the deserving wards of the employees of the VELTCH Group of Institutions. These are granted in the form of Tuition Fee Waivers and Scholarships. The Government of Tamil Nadu offers financial assistance to students from economically weaker sections in the form of fee reimbursement.

Total amount (in Lakhs.) of scholarship received academic year wise

Sl. No	Year	No of Students	Amount
1	2011-12	791	47.63
2	2012-13	967	94.15
3	2013-14	909	119.86
4	2014-15	793	137.96

In addition to this, the institution provides cash awards and merit certificates for the following:

Sl.No	Awards
1	Award for Toppers
2	Best Project - Student
3	Students Mini Project
4	Students Project under TNSCST scheme - Guide
5	Max. Library Utilization
6	Sports Activity
7	Cultural Activity
8	Best Outgoing student of the Department
9	Best Outgoing student of The Institution - UG
10	Best Outgoing student of The Institution - PG
11	Highest percentage - UG
12	Highest percentage - PG

### 5.1.3 What percentage of students receives financial assistance from state Government, central government and other national agencies?

The following table represents students' details who received financial assistance from State Government and Central Government from 2011-2015.

S.No	Year	BC/MBC		SC/ST	
		No. of Students	Amount	No. of Students	Amount
1	2011-12	628	28,03,433	163	19,60,350
2	2012-13	600	25,77,251	367	68,38,650
3	2013-14	570	30,76,510	339	89,10,000
4	2014 - 15	575	31,59,290	218	1,06,37,150
5	2015-16	490	24,47,235	249	1,23,33,200

About 45% of students received scholarship from central and other national agencies.

**5.1.4 (a) What are the specific support services /facilities available for students from SC/ ST , OBC and economically weaker sections**

The students belonging to SC/ST/OBC avail the scholarship provided by the government. Institute has Scholarship officer to advice the students for scholarship facility for the SC/ST students. For students of economically weaker sections institution is providing fees concession.

**(b) What are the specific support services /facilities available for Students with physical disabilities?**

Physically challenged students will be provided front seats in college busses and in classrooms. In addition to which lift and ramp facilities inside the campus are available for their convenience.

**(c) What are the specific support services/facilities available for overseas students?**

As per the AICTE norms.

**(d) What are the specific support services/facilities available for Students to participate in various competitions/ National and International?**

- ❖ Students are encouraged by making them to participate/present in national/International level conference/symposiums, Seminars, workshops, motivational lectures etc., and they will be provided benefit of attendance.

- ❖ Our institute will guide the students for preparation of above and financial support for registration and transport facility through department associations.

**(e) What are the specific support services/facilities available for Medical assistance to students: health centre, health insurance etc?**

- ❖ The institution has a Medical Center with two nurses appointed by the Institution.
- ❖ First aid facility is available at the Medical Center.
- ❖ One nurse will be available during night time also for the sake of hostel students.
- ❖ Ambulance is made available to meet the emergency medical needs of the students

**(f) What are the specific support services/ facilities available for organizing coaching classes for competitive exams?**

Training and placement department will provide special classes for students to upgrade their learning standards for appearing competitive exams. Aptitude training programmes cater to support their skill to do well in competitive exams. Reference books are also made available in the department library.

The students are motivated and trained by the faculty members to appear for the functional English, group discussions and competitive exams, TOEFL, GRE, CAT, GATE, MAT, NET, SET exams. Faculty guide the students to apply for higher education and conduct different coaching classes like Communication skills, aptitude training program etc. Competitive exam Books are available in the library.

**(g) What are the specific support services/ facilities available for Skill development (spoken English, computer literacy, etc)?**

Students are given special training to improve their spoken English. We conduct an out sourced technical training that encompasses for students. We have an exclusive browsing center in addition to the core labs to help students to practice programmes during their lunch hours or leisure time. To help students get to know about the Industrial work practices collaborated with ICTACT for grooming the students and to orient them towards skill development. Some of our faculty members have also attended such programmes and inturn training our students in the Institution. The Institution regularly conducts Personality Development Program to improve the communication skills of the participants. The Institution also organizes Guest lecturers delivered by industrial experts which provides regional and global employment opportunities and for developing soft skills of rural back ground students for the students also. Besides this the Institution offers Personality development program (PDP) for first year students and Pre Placement Talk (PPT) for final year students. In addition to the above the Institution has taken initiatives for conducting CCNA certification programs and other certification courses in MICROSOFT, CATIA, RTOS, Airlines /Airport management.

**(h) What are the specific support Services/ facilities available for Support for “slow learners?”**

Slow learners are identified through the various assessment processes like weekly test, Continuous Assessment Test, Laboratory Viva session, interaction during the lecture delivery, etc. For slow learners, the institution conducts remedial classes in different subjects to enhance their knowledge levels. Group Discussions are also held to test their understanding of the subjects. Slow learners are also asked to take up the retests for the respective

subjects. They are also given special attention by solving the important problems in the form of additional worksheets and assignments.

**(I) what are the specific support services /facilities available for Exposures of students to other institution of higher learning/corporate/business house etc.**

- ❖ The students are encouraged to participate in different workshops, seminars organized in collaboration with reputed industries conducted by other institutions which exposes to the current trends.
- ❖ The students are encouraged to do their final year project in various industries is relevance to their interested area of study. The students are also encouraged to take up in plant training to get handson experience about the industrial processes.
- ❖ The institute arranges for guest lecturers and industrial visits to the students to provide them information about the various industrial practices and current technologies.

**(j) What are the specific support services/facilities available for Publication of student magazines?**

- ❖ Student magazines and department news letters are published once in six months with contributions from the students and the faculty.
- ❖ Department associations will collect all the published details of the students, articles and projects etc for better encouragement to publish in magazines.

**5.1.5 Describe the efforts made by the institution to facilitate entrepreneurial skills, among the students and the impact of the efforts.**

Our institution has set up an Entrepreneurship Development Cell (EDC), to encourage the students by motivating them to explore innovative ideas to

implement and become entrepreneurs. The “Entrepreneur Development Cell which enrolls students every year and supports them with guidance from proprietors and businessmen from other organizations to motivate them and enlighten them about the shades of business and encourage them to opt to install their own brand rather than working for other banners.

The Cell also arranges visits to industries for exposure and on the job training.

We also have small scale proprietor’s walk-in to speak about business options that would support core companies. We have also conducted a special ‘Women’s entrepreneur workshop’ conducted to motivate girls towards business.

“Innovative Project Cell” conducts seminar for the students, to promote their innovative ideas for project development, getting Patents, resulting in entrepreneurial ventures. Entrepreneurship development Cell and Placement Cell encourages the students to be self-employed. Entrepreneurship Development Programmes are conducted every semester, identifying the Government Enterprises that promote self-employment and building a relationship between the organization and the budding entrepreneurs of the Institution.

**5.1.6 Enumerate the policies and strategies of the institution which promote participation of students in extracurricular and co- curricular activities such as sports, games, Quiz competitions, debate and discussions, cultural activities etc.**

We have established a strong platform for students to involve with whole enthusiasm in sports, games, quiz, debate and other cultural activities to enable them to chisel their individuality and inculcate the art of exhibiting their skills. Every department focuses on guiding students to hone their integrated skills. We have various clubs like ISTE, IEIE, CSI, ISA, National Sports Organization,



Renewable energy Club, English Literary Association, Youth Red Cross Society in the campus to cater to the needs of the faculty and students. We encourage students to register in clubs of their choice. Many competitions and discussion fora are held to enable students to interact and learn more in addition to the syllabus. These clubs effectively shoulder the students' overall grooming. Students who are encouraged to participate in extracurricular and co-curricular activities are supported with additional notes and lectures for the classes missed. Economically limited students who participate in sports are taken good care with efficient training, nutritional food and free stay in the hostel by College Management.

**The institute:**

- ❖ Organizes participation in inter collegiate tournaments and in intra-departmental and intra-College activities and competitions (co-curricular & extra-curricular) to sharpen the skills of the students.
- ❖ Presents merit certificates and mementoes to winners and runners in institutional competitions for boys & girls at College Annual & Sports Day celebrations.

**5.1.7 Enumerating on the support and guidance provided to the students in preparing for the competitive exams, give details on the number of students appeared and qualified in various competitive exams such as UGC-CSIR- NET, UGC-NET, SLET, GATE/ CAT/ GRE/ TOFEL/ GMAT /Central/ State services, Defense, Civil Services, etc.**

In addition to the curriculum, students are advised to upgrade themselves for competitive exams and the departments support students with reference books and materials for preparation. These credits are of great boost for their higher studies.

ACADEMIC YEAR	TYPES OF EXAMS	NUMBER OF STUDENTS APPEARED	NUMBER OF STUDENTS QUALIFIED
2015-16	GATE	230	03
	GRE	01	-
2014-15	GATE	159	09
	GRE	06	06
	CAT	01	-
2013-2014	GATE	82	18
	GRE	03	02
2012-2013	GATE	63	11
	GRE	02	02

#### **5.1.8 What type of counseling services are made available to the students (academic, personal, career, psycho-social etc.)**

The institution offers a well-structured counseling service which facilitates students' convenience and helps needy students. Academic and personal counseling is conducted by specially appointed staff. Class coordinators, who are in regular contact with students and parents, also contribute by counseling students. Students gain special attention during their First Year as they are new to the Institution life. Parents are regularly updated of their wards' performance. Students are met often to ensure smooth functioning of the system and convenient learning for the students. Special attention is paid to limited English Proficient Students who come from mother tongue medium schools and rural background.

**5.1.9 Does the institution have a structured mechanism for career guidance and placement of its students? If “yes” ,detail on the services provided to help students identify job opportunities and prepare themselves for interview and the percentage of students selected during campus interviews by different employers ( list the employers and the programmes) .**

The institution has a Placement and Training Cell which trains students and equip them to face interviews. We have a team of Staff members who take classes on regular time-table basis to keep students abreast of aptitude and reasoning, English and Maths. Periodic tests are conducted to assess the level of students. We also conduct online tests to enhance the performance every year. We also train students by professional trainers of reputed companies to enable them to perform better in interviews and to gain confidence.

The Training and Placement Department organizes regular training, intensive week-long training on a need basis and also conducts mock placement drives to prepare the students for campus selections.

- ❖ Functional English and Quantitative Aptitude
- ❖ Logical Reasoning and Group Discussions,
- ❖ Personal Effectiveness and Interview facing skills
- ❖ Computer languages – C, C++, Java, Dot Net for ECE, CSE and EEE students.
- ❖ CAD/CAM for Civil and Mechanical engineering students.

#### **Placement Details Year and Branch wise**

<b>Year Branch</b>	<b>2012-13</b>	<b>2013-2014</b>	<b>2014-2015</b>	<b>2015-16</b>
<b>BIOTECH</b>	14	15	12	42
<b>CIVIL</b>	8	9	8	14
<b>CSE</b>	58	74	55	56

<b>CHEMICAL</b>	1	3	3	7
<b>ECE</b>	15	19	18	45
<b>EEE</b>	8	16	12	20
<b>IT</b>	6	21	8	31
<b>MECH</b>	13	5	15	15
<b>MBA</b>	20	3	5	20
<b>MCA</b>	8	2	3	4

### 5.1.10 Does the institution have a student grievance redressal cell ?

**If yes ,list (if any)**

Yes.The Institution has a grievance redressal cell with 50 % of women as members of it and headed by senior faculty. The students can drop grievances in suggestion box or can directly give to concerned cell. The students are also free to share their suggestions with their mentors and class teachers and necessary remedial measures will be initiated by the cell after discussion of the grievances.

S.NO	Name of the member	Designation	Position
1	Dr.K.Murugesan	Professor	Principal
2	Mr.P.Raju	Associate professor	Vice-Principal/ Member
3	Mr.Vishnu kumar	Assistant Professor	Planning/ Member
4	Dr.M.Chandran	Associate Professor	Senior Member: Biotech
5	Mrs.Chandravathi	Assistant Professor	Senior Female Faculty Member
6	Ms.Shanmuga Priya	Assistant Professor	Senior Female Faculty Member
7	Ms.Alamelu Mangai	Assistant Professor	Senior Female Faculty Member

**5.1.11 What are the institutional provisions for resolving issues pertaining to sexual harassment?**

The institution has constituted women empowerment cell to take necessary measures to ensure the safety and dignity of the female students. The cell is headed by a senior female of the Department with senior lady faculty as members. Till date no such case of sexual harassment has been reported in the institute. Continuous vigilance by all the staff and women empowerment cell and strict punishment provisions have prevented sexual harassment of girl students and female faculty.

**5.1.12 Is there an anti-ragging committee? How many instances (if any) have been reported during the last four years and what action has been taken on these?**

Yes. The institution has constituted anti-ragging committee of senior and junior students and parents to prevent ragging inside the institution premises and also to create awareness among the students so as to prevent the same from happening outside the campus also.

In addition, the institution has taken the following measures to prevent ragging from happening:

- ❖ The institution has displayed the evil effects of ragging and punishment for ragging at prominent places.
- ❖ Awareness is created among the senior students of the effects and consequences of ragging. The local police and officials from judiciary are invited to speak with the students to apprise them of the consequences of ragging.

Anti-Ragging committee members

Sl. No	Name	Position (Chairman/ Member)	Category
1	Dr.K.Murugesan	Chairman	Principal
2	Mr.Devandran	Member	Police Inspector
3	Mr.Senthil Kumar	Member	Revenue / Taluk / Civil / Officers
4	Mr.Manikandhan	Member	Official of NGO
5	Mrs.Noorjahan	Member	Representatives of parents
6	Mr.Selva Moorthy	Student Member	Representatives of Students
7	Ms. Jayakirthika Devi	Student Member	Representatives of Students category
8	Mr.Prem Kumar	Member	Representatives Non-Teaching

No instances have been reported during the last four years.

**5.1.13 Enumerate the welfare schemes made available to students by the institution.**

Yes. In addition to the Government scholarships to BC/MBC, SC/ST, Minority and Prime Minister's scholarship, we have given a special fee deduction for 22 students affected by Thane Cyclone. We provide financial support for attending Conferences, Seminars, Sports and other major events. Life Insurance scheme is offered to students. Free education, Fee concession and Free Hostel facilities are offered to economically weaker students.

The following schemes are always active stage to deploy at any time

- ❖ Institution allows payment of fees in installments to needy students.
- ❖ Subsidized canteen facilities for all the students.
- ❖ Subsidized transportation facilities for all the students.
- ❖ Free comprehensive placement training.
- ❖ Free medical aid on the campus.

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**5.1.14 Does the institution have a registered Alumni Association? If „yes“ what are its activities and major contributions for institutional, academic and infrastructure development?**

Yes, we have a well-established Alumni association functioning effectively. The alumni will themselves register and meet every year to share their views and contribution to their Alma Mater. It is a very positive note to get companies introduced for placement through Alumni. P.G Alumni meet on 15 August and U.G Alumni meet on 26 January every year.

Contributions of Alumni Association:

The institution conducts alumni meet every year

- ❖ The institution arranges the alumni to share their experiences with their juniors whenever they visit the institution to guide the students regarding employment and higher education opportunities available.
- ❖ They share their experiences with department association that trends in the respective industries and accordingly suggest the institution to train the students on certain technologies.
- ❖ Alumni refer their juniors for jobs.

**5.2 Student Progression**

**5.2.1 Providing the percentage of students progressing to higher education or employment (for the last four batches) highlights the trends observed.**

**Providing the percentage of students progressing to higher education**

<b>Student Progression</b>	<b>% of Students</b>
UG to PG	<b>10%</b>
PG to M.Phil.	<b>5%</b>
PG to Ph.D.	<b>2%</b>
Overseas Education	<b>1%</b>
Self employed	<b>5%</b>

Employed	
• Campus selection	<b>20%</b>
• Other than campus recruitment	<b>57%</b>

Following are the trends observed:

- ❖ Many of the students studying Electronics and Computer Sciences are getting employment through campus selections.
- ❖ There have been good employment opportunities for students belonging to ECE, CSE and EEE branches until 2013 and the opportunities have been declining afterwards.
- ❖ Most of the technology, services and consulting companies have been preferring graduates with ECE, CSE and EEE specializations.

**5.2.2 Provide details of the programme wise pass percentage and completion rate for the last four years (cohort wise/ batch wise as stipulated by the university)? Furnish programme-wise details in comparison with that of the previous performance of the same institution and that of the Institutions of the affiliating university with in the city/district. Result Details – Pass Percentage Year Wise and Branch Wise**

Branch Year	CIV	CSE	BIOT	ECE	EEE	CHE	IT	MECH	MBA	MCA	ME STRS
2011-12	40.54%	55.5 %	92.25%	83%	83.24%	80.50%	79.68%	NA	87%	100%	-
2012-13	64%	91.15%	96.13%	76%	90.6%	93.50%	49.23%	87.30%	78.60%	100%	100%
2013-14	87.5%	49.80%	98.15%	70%	90%	87%	80.30%	40.85%	94%	100%	98%
2014-15	88%	84.34%	97.6%	45%	69.44%	76%	62%	73%	87.5%	100%	98%



### **5.2.3 How does the institution facilitate student progression to higher level of Education and/ or towards employment?**

We guide students to progress to higher level of education. We arrange seminars on higher education conducted by TIME. We also provide ample training and exposure to students who seek employment abroad. Orientation programmes to enhance their skills are regularly conducted by HR teams of TCS and Accenture. A special aptitude training programme is conducted by outside agency for Career Enhancement. In addition to the regular classes conducted by the placement and training department, a special training on soft skills, fast Maths, group Discussion and HR Interview techniques is given by Outside Consultant.

### **5.2.4 Enumerate the special support provided to students who are at risk of failure and dropout?**

Weak students in each department right from the First year are identified through Periodical tests. The remedial measures are:

- ❖ Special classes are conducted after regular periods and on holidays.
- ❖ Poor academic performance due to frequent absenteeism is communicated to the parents by phone as well as letters.
- ❖ Problem related questions are dealt regularly by each subject handling faculty.
- ❖ Photo copy of notes is distributed to each student.
- ❖ 2 marks questions from all 5 units are distributed with answers for easy understanding.
- ❖ Question Banks are discussed thoroughly.
- ❖ Assignments and retests are conducted.

### 5.3 Student Participation and Activities

**5.3.1 List the range of sports, games, cultural and other extracurricular activities available to students. Provide details of participation and program calendar.**

Our College provides various sports and games for the students

➤ **Sports**

- ❖ Cricket
- ❖ Valley ball
- ❖ Kho- kho
- ❖ Hand ball
- ❖ Badminton
- ❖ Throw Ball
- ❖ Basket Ball
- ❖ Kabaddi
- ❖ Sepak takraw

➤ **Games , Cultural & Extra-curricular events**

- ❖ Chess
- ❖ Carom
- ❖ Table tennis
- ❖ Students are given chances to perform cultural events on important National days.
- ❖ Students are permitted to participate in various extracurricular events organised by Anna University , IIT-M etc.,

S. No	Year	Number of Events				
		Zone Level	Inter Zone Level	State Level	National Level	International Level
1	2011-12	15	5	2	-	-
2	2012-13	23	8	5	-	-
3	2013-14	20	7	6	-	-
4	2014 - 15	34	6	3	-	-

**5.3.2 Furnish the details of major student achievements in co- curricular, extra-curricular and cultural activities at different levels: University /State/ Zonal/ National/International, etc. for the previous four years.**

Our students represent the Institution in various athletic events and games conducted by Anna University and other Institutions.

**Activities and Achievements in Sports during the Academic year 2013 -2014**

S.No	Name of the Student	Game	Team place	Organized By	Date
1	Mr.S.Santhosh, J.Jayakandhan S.ShanmugaPriya M.Priyanga	Chess	9th Place for Team	Anna University Zonal Level at SVST Engg.Colege, Thiruvallur	7th& 8th August, 2013
2	P.AbinayaSundari	Hand ball	Runner Up	TamilNadu Senior Women Handball State Championship at Thiruvallur District	10th&11th August, 2013
3	M.R.S.Santhosh	Chess	4th Place	Anna University Inter Zonal Level at Kodikanal	9th August, 2013
4	S.Sathish Kumar S.KelvinSujith K. YaserMeeranMohideen M.Dinesh, V.Manoj Victor A.Arutselvan Akash Deep Bhagat M.GulamNabi Azad M.Ponvalavan Vivek V.Prabhakaran SajjadShagulHameed A.Dhivakar K.Gowtham	Football	Quarter Final	Anna University Inter Zonal Level at GojanEngg College	12th&14th August, 2013

	S.Arun Raj G.ThangaVinoth				
5	P.Hemanath T.Thirugnanam K.Senthamizhselvan N.SornavelPandian N.ThiruKumaran D.RajKuma S.Ajith Kumar N.Aravind N.Ananth S.Gokul S.ArunKarthik	Kho- Kho	Quarter Final	Anna University Zonal Level	
6	S.Keerthana T.Nandhini	Badm inton	Quarter Final	Anna University Zonal Level at Velammal	26th&27th August, 2013
7	P.Hemanth, S.Gokul N.Aravind	Kho- Kho	Quarter Final	Anna University Inter Zonal Level at V.R.S. College of Engineering and Technology, Arasur	26th to 28th August 2013
8	Vivek.S Srinivasan.B Rudra.N Vignesh.G Vignesh.S Elango.S Girishankar Murali Arulselvam Ramesh Gopi Raguram Eljeevan Shakarabani Sathya	Crick et	2nd Round	Anna University Zonal Level at GojanEngg College	29th&1st Septembe r, 2013
9	S.Keerthana	Badm	Quarter	“Chemsports”	August,

	T.Nandhini	inton	Final	State Open Level Tournament at Chengalpattu Medical College	2013
10	JenzingDhandenGurung	Basketball	Quarter Final	Anna University Inter Zonal Level at	August, 2013
11	V.Kanthaswamy	Carrom	Participating	South Indian Robo Championship League	August, 2013
12	M.R.S.Santhosh	Chess	Runner Up	“Chemsports” State Open Level Tournament at Chengalpattu Medical College	
13	Keerthana Amirtha Malathi Lakshmi Suchitra Gurujayanthi Hemavathi Haripriya Nikitha Gowthami Bhuvaneshwari Lavanya Pavithra Shrinila	Throw Ball	Runner Up	“Chemsports” State Open Level Tournament at Chengalpattu Medical College	August, 2013
14	S.Keerthana T.Nandhini	Badminton	Quarter Final	LICET Tournament Loyola Engg.College	24th& 25th January, 2014
15	Vivek.S Srinivasan.B Rudra.N Vignesh.G Vignesh.S Elango.S Girishankar Murali Arulselvam	Crick et	Semi Final	“Chemsports” State Open Level Tournament at Chengalpattu Medical College	August, 2013

	Ramesh Gopi Raguram Eljeevan Shakarabani Sathya				
16	S.Deepan Udhayavan R.Harikrishnan S.Boopathy G.ThangVinoth R.K. Murugavelan Karthik.R.S.Hivak umar D.Meganathan V.Nagarjun S.Aravindhan Ajith Kumar	Volle y ball	3rd Round	“Chemsports” State Open Level Tournament at Chengalpattu Medical College	August, 2013
17	S.Deepan Udhayavan R.Harikrishnan S.Boopathy G.ThangVinoth R.K. Murugavelan Karthik.R.S.Hivak umar D.Meganathan V.Nagarjun S.Aravindhan Ajith Kumar	Volle y Ball	Quarter Final	Anna university Zonal Match at SA Engineering College	17th&18t h Septembe r, 2013
18	S.Vinitha S.Shabnam D. Vinutha	Table Tenni s	4th Place	Anna University Match at Vel Tech Engineering College	23rd&24t h October, 2013
19	S.Deepan	Hocke y	Selecte d for inter zonal	Anna University Inter Zonal Level at National Engg College	3rd& 6th October, 2013
20	T.Karuppasamy C.Jeyaramselvan M.Guna C.Anand	Kabad di	Quarter Final	Anna university Zonal Match at Prathyusha	3rd& 4th October, 2013

	S.Pradeep D.Rajkumar N.Sarath G.Elaiyamurugan R.Rajavelu S.Lokesh Kumar M.Prasanth B.Karthick				
21	M.Guna	Kabadi	Quarter Final	Anna University Inter Zonal Level at Saveetha Engg College	7th & 9th October, 2013
22	I.Mohamed Infan	Kick Boxing	participation	National level	18th January, 2014
23	V.M.Dharma Duri	Best Physique	Mr. Chennai, 3rd place	Open State Level Competition	26th January, 2014
24	T.Karuppasamy C.Jeyaramselvan M.Guna C.Anand S.Pradeep	Table Tennis	2nd Round	Anna University Inter Zonal Level at Abdul Hakkem College of Engg, Vellore	24th & 26th September, 2013
25	M.Ponvalavan	Football	Runner UP	CATC-CUM-NCC Sports IGC Camp	2nd October, 2013
26	K.Swathi	Chess	X Place	1st state level open chess tournament TNSCA approval no: c15/13-14 at Aiema Tech Centre, Ambattur	30th September & 1st October, 2013
27	M.Priyanga	Chess	4th Place	1st state level open chess tournament TNSCA approval no: c15/13-14 at Aiema Tech	30th September & 1st October, 2013

				Centre, Ambattur	
28	M.R.S.Santhosh	Chess	X place	1st state level open chess tournament TNSCA approval no: c15/13-14 at Aiema Tech Centre, Ambattur	30th September & 1st October, 2013
29	S.Keerthana T.Nandhini	Badminton	Runner Up	RADIANT Sport held at Sports Development Authority of Tamil Nadu	6th October 2013
30	S.Gokul	Karate	IIIrdPlace	All india Perak Okinawa Goju-Ryu Karate Federation	19,20 to April 2014
31	I.MohamedIrfan	Muaythai	Gold Medal	National Level Muaythi Championship at Assam	20th July 2014
32	M.Guna	Best Pushups	1st Place	Jeppiaar Engineering College Level Open Tournament	24th – 26thjuly 2014
33	G.ElaiyaMurugan	Aim of Shooting	1st Place	Jeppiaar Engineering College Level Open Tournament	24th – 26thjuly 2014
34	M.R.S.Santhosh	Chess	4th Place	Jeppiaar Engineering College Level Open Tournament	24th – 26thjuly 2014
35	K.Swathi Divakar	Chess	Participation	Jeppiaar Engineering College Level Open Tournament	24th – 26thjuly 2014
36	M.Priyanga	Chess	Particip	Saveetha State	



	GuruMoorty Ramesh		ated	Level Chess Tournament	
37	M.Gokulnath	Body Building	2nd Place	Vellore District Amature Body Building Association Conduct A Open To All District Level Championship	3rd August 2014
38	V.M.DharmaDurai	Best Physique	3rd Place	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet)	11th& 26th February, 2014
39	M.R.S. Santhosh P.Gurumoorthy P.Suresh S.jayakandhan S.Aashithyan	Chess (Men)	5th Place	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet)	11th& 26th February, 2014
40	S.Keerthanaa T.Nandhini	Badminton (Women)	8th Place	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet)	11th& 26th February, 2014
41	M.Guna	Best Pushups	1st Place	Jeppiaar Engineering College State Level Open Tournament	24th – 26th July 2014

### ATHLETICS

Sl.No	Name of the Student	Game	Team place	Organised By	Date
1	A.Jagathan Prakash	Athletics	First and Second Place	“Chemsports” State Open Level Tournament at Chengalpattu	August, 2013

				Medical College	
2	V.PadmaPriya	Athletics	First Position in High Jump Third Position in Hurdles	Anna University Zonal Level	05th & 06th Oct 13
3	A. Jagathan Prakash	Athletics	First Position in Shout Put	Anna University Zonal Level	05th & 06th Oct 13
4	S. Muralitharan	Athletics	11th place Decathlon	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet)	11th & 26th February, 2014
5	A. Jagathan Prakash	Athletics	8th Place Short Put	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet)	11th & 26th February, 2014
6	K.Siddharth	Athletics	15th place	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet). 20KM Walk.	11th & 26th February, 2014
7	D. Prasanth	Athletics	16th Place 42KM	KongunaduTIES 2014 (Tamil Nadu Inter	11th & 26th February,

			Run	Engineering Sports Meet).	2014
8	G. Aakash	Athletics	6th Place	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet).	11th& 26th February, 2014
9	Sakrabani Siddharth	Athletics	10th Place 42KM Run	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet).	11th& 26th February, 2014
10	V. Padma Priya	Athletics	7th place High Jump	KongunaduTIES 2014 (Tamil Nadu Inter Engineering Sports Meet).	11th& 26th February, 2014

### 5.3.3 How does the College seek and use data and feedback from its graduates and employers, to improve the performance and quality of the institutional provisions?

- ❖ The institute takes a comprehensive exit feedback from the students on the performance and quality of institutional provisions.
- ❖ This part of the feedback will be collated and analyzed by the Management and Internal Quality Assurance System (IQAS) and appropriate measures will be taken to improve the performance and quality of the infrastructure, facilities and amenities.
- ❖ At every Alumni meet, we have our graduates coming forward with suggestions. We also have them referring to few companies for Placement. We have a Post offer Connect Session conducted every

year, where we gain a platform to interact with HR's to help us update ourselves. Many of our trainings and workshops have been redesigned taking suggestions from Companies.

**5.3.4 How does the College involve and encourage students to publish materials like catalogues, wall magazines, College magazine, and other material? List the publications/materials brought out by the students during the previous four academic sessions.**

Students enthusiastically involve in the preparation of Symposium Souvenirs. They are given the opportunity to collect the articles, drawings, creative writing, case studies etc and coordinate them. We have Symposium Souvenirs published in the name RTBCE, AICE, ESAACS etc. The copy of the souvenir is available in the department.

**5.3.5 Does the College have a Student Councilor any similar body? Give details on its selection, constitution, activities and funding.**

Yes. We have an overall student council and we do have symposium Secretary, Symposium organizers and Class representatives who are often assembled together by department association and given an open chance to express their needs and inconveniences, if any. Every department of the Institution has a student association. The executive committee of these associations comprises of the following:

- ❖ President from the final year
- ❖ Vice-president from the pre-final year
- ❖ Secretary from the pre-final year and
- ❖ Treasurer from final year

The Executive Committee is constituted by the Head of the Department in consultation with the faculty team. The selection of the candidates is based on merit, communication & leadership skills and general behavior of the student.

The departmental associations conduct the following activities under the guidance of the faculty representatives.

- ❖ Technical poster presentation
- ❖ Puzzles
- ❖ Technical quiz
- ❖ Paper presentation
- ❖ Project expo

Activities of the associations are jointly funded by the students and the institution. In case of National / Regional level programmes, sponsorships are also invited. Students take an active role in attracting sponsorships.

#### **5.3.6 Give details of various academic and administrative bodies that have student representatives on them.**

The institution believes in giving equal opportunity to the students in supporting the management and the faculty in running the affairs of the Institution. For this, the Institution provides them with opportunities to participate in the various academic and administrative bodies.

- ❖ Class Committee Cell
- ❖ Anti – Ragging Committee
- ❖ Students (chapter/forum)Associations such as IEEE,ISTE,IETE,ISI etc
- ❖ Grievances Cell & Sports Committee
- ❖ Quality improvement cell
- ❖ Women Empowerment Cell

**5.3.7 How does the College network and collaborate with the Alumni and former faculty of the Institution.**

The Alumni Committee keeps in constant touch with the Alumni of the institution. The institution celebrates Alumni Day as part of annual celebrations and gives that event a wide publicity to reach out to as many alumni as possible. In addition, the institution encourages the alumni to organize their get together within the campus.

The former faculty of the institution are invited for seminars / workshops as resource persons and evaluators. They are also invited for guest lectures and celebrations.

We have a website [www.velhightech.com](http://www.velhightech.com). We regularly post all our activities on this website. We also have a community in Facebook where Students and Alumni can post their views and get to know of the new developments getting incorporated in our System. Alumni and former faculty are sometimes networked in Symposium, Conferences, Seminars, etc by the department Staff.

## **CRITERION VI: GOVERNANCE, LEADERSHIP AND MANAGEMENT**

### **6.1 Institutional Vision and Leadership**

**6.1.1. State the vision and mission of the Institution and enumerate on how the mission statement defines the institution's distinctive characteristics in terms of addressing the needs of the society, the students it seeks to serve, institutions traditions and value orientations, vision for the future, etc.?**

#### **The Vision**

Pursuit of excellence in technical education to create civic responsibility with competency.

#### **The Mission**

- ✓ "To impart the attributes of global engineers to face industrial challenges with social relevance."
- ✓ "To indoctrinate as front runners through moral practices."
- ✓ "To attain the skills through lifelong learning."

#### **The Virtues**

We believe in inculcating supreme qualities of life such as honesty, integrity, charity and desire to work hard, politeness and purity of soul to every student there by creating value enriched individuals.

#### **The Ventures**

We understand that to succeed, we must venture with confidence and extend our horizons. We pass on our success and experience to every student who studies under our fold.

### **Distinctive Characteristics of the institution**

- ❖ State of the art infrastructure and a green campus
- ❖ Flexible and empowering environment for excellent self-motivated faculty.
- ❖ This institution is located in rural area to encourage rurals to educate with professional education.
- ❖ Employability skills and Language skills training to enhance the employability of the students
- ❖ MOUs with top MNC's for empowering research and education.

### **The Quality Policy**

"The quality policy of our Institution is to breed Excellence in Everything, Excellence blended with the supreme virtues of life such as Honesty, Integrity, Hardwork, Politeness, Purity of soul and total dedication to the purpose."

In an environment that fosters free exchange of ideas, our Institution seeks to nurture the inquisitive mind and to integrate intellectual, social, and personal growth. The Institution strives to develop students' skills of critical thinking, verbal communication, and quantitative reasoning and their capacity for creative endeavor; it encourages students to examine the traditions of their own culture and those of others, to develop systems of values that include an understanding of personal, social, and professional responsibility, and to regard education as an indispensable, life-long process.

Right from the inception of the institution, we strive to achieve the high standards that we had set for ourselves. We aim to excel in our work and bring out the best in our students. 'To breed excellence in everything we do and everything we are' is our golden rule. With our eyes firmly set on this ideal, we continue our journey of imparting knowledge. Since the very first day, we



provide the students with the state- of- the- art technology to ensure that our students get the best exposure to face the world with confidence. Apart from imparting knowledge and training we shape the overall development of the student. We also take it as our primary responsibilities to get our students to take off on their career in the best possible way. It is a long road ahead of them and the best we can do is to provide them with support and guidance in every step they take.

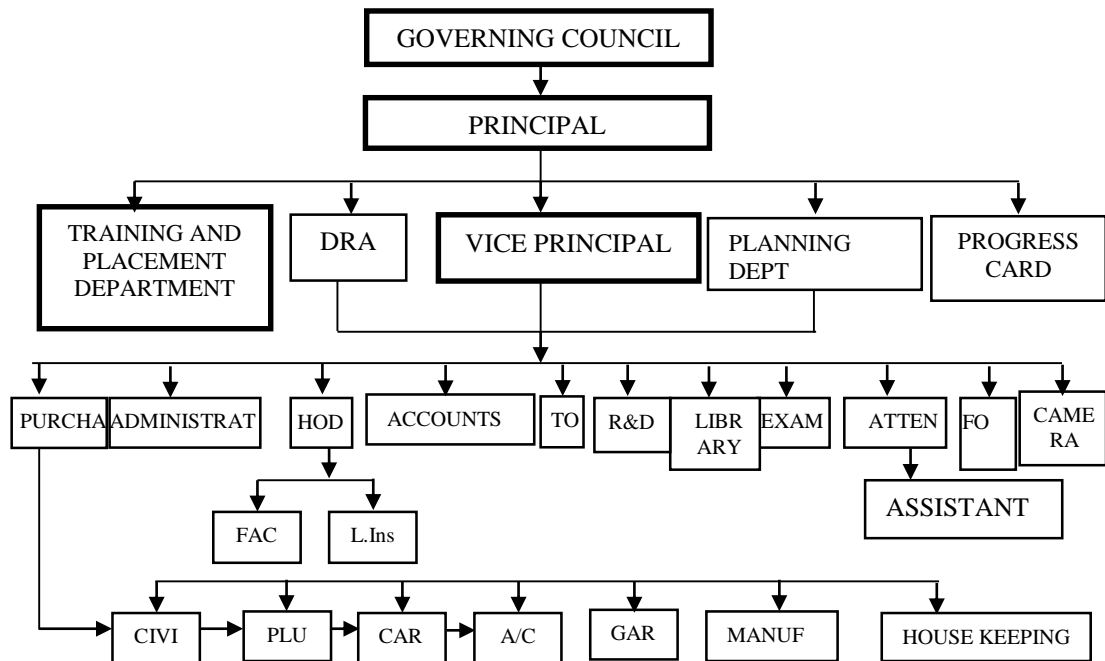
### **6.1.2 What is the role of top management, Principal and Faculty in design and implementation of its quality policy and plans?**

The quality policy of the Institution is to breed Excellence in Everything, Excellence blended with the supreme virtues of life such as Honesty, Integrity, Hard work, Politeness, Purity of soul and Total Dedication to the purpose. In an environment that fosters free exchange of ideas, our group seeks to nurture the inquisitive mind and no integrate intellectual, social, and personal growth. The Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College strives to develop students' skills of critical thinking, verbal communication, and quantitative reasoning and their capacity for creative endeavor; it encourages students to examine the traditions of their own culture and those of others, to develop systems of values that include an understanding of personal, social, and professional responsibility, and to regard education as an indispensable, life-long process.

- ❖ The Management's role is to provide excellent infrastructure facilities and healthy Teaching and Learning Environment to the Students & Faculty.
- ❖ The Principal and Faculty Members are taking care of implementing the policies and plans.

- ❖ The Principal provides Academic Leadership and in association with the Faculty, formulates new strategies to achieve the institutional growth.
- ❖ The Faculty Members are actively involved in Decision Making Process based on various committees like Planning, Anti-Ragging, R&D Department, ED Cell, Sports Committee etc.,. The Academic Performance methodology is reviewed and discussed by Heads of the Departments before implementation.
- ❖ Training Placement Cell is taking care of developing professional competence and soft skill of every student by inviting Trainers from various Organizations to impart necessary skills needed by the Industries.

### Organizational Structure



DRA: Department for Regulatory Authorities.

TO: Technical Officer

EXAM: Examination Cell

ATTE: Attendance Cell

FO: Finance Officer

FAC: Faculty

L.Ins: Lab Instructors

CIVI: Civil Workers

PLU: Plumber

CAR: Carpenter

A/C: Air Conditioning Mechanic

GAR: Gardener.

MANUF: Manufacture Department.

### **6.1.3 What is the involvement of the leadership in ensuring?**

The Chairman of the Institution will take the lead in developing institutional infrastructural aspects and Principal of the Institution will lead the academic aspects.

- ❖ Every Department has Department Advisory Board (DAB) with senior faculty and with external and internal stake holders. HOD's will initiate the requirement through DAB approved copy is sent to Principal office. The Principal will forward the requirement raised by departments to the Board of Governing Body will forward the aspect to management immediately.
- ❖ Every semesters, the Department will propose it's strategic plan and principal will consolidate the institutional strategic plan and the same will be submitted to Board of Governing Body for financial Sanction.

- ❖ Faculty requirement will be intimated by HOD's to Principal and the same will be informed to Board of Governing Body for recruitment approval.
- ❖ The institution has constituted several committees with the internal and external stakeholders as members.
- ❖ Principal initiate to celebrate Parents Day and Alumni Day as part of the institution's Annual Day celebrations.

**The leadership role is listed below**

**Initiating:**

- ❖ Providing Visionary Leadership
- ❖ Involving Key stakeholders and Commitment

**Facilitating:**

- ❖ Working with people & Teams
- ❖ Working with right people together

**Implementing:**

- ❖ Planning and Managing the process
- ❖ Keeping people focused and motivated
- ❖ Preserving until change is affected.

**6.1.4. What are the procedures adopted by the institution to monitor and evaluate policies and plans of the institution for effective implementation and improvement from time to time?**

Procedures of Monitoring and evaluation of policies and plans are as follows

**Monitoring:**

- ❖ Teaching and learning Outcome based Assesment.
- ❖ Students' feedback, Stakeholders feedback.
- ❖ Department Advisory Board Feedback.

- ❖ Students mentoring feedback.
- ❖ Academic performance Appraisal
- ❖ Faculty meetings are held to take stock of the activities

**Policy Evaluation:**

The Evaluative parameters are,

- ❖ Outcome attainment assessment of Teaching Learning Process
- ❖ Evaluation of internal and external stakeholders
- ❖ Correct Identification of any problem
- ❖ Proper implementation of all recommendations.

Effective monitoring mechanisms like establishments of various committees like

- ❖ Academic Advisory Committee
- ❖ Placement Cell
- ❖ Student Counseling Mentoring
- ❖ Industry Institute Partnership Cell
- ❖ Entrepreneurship Development Cell(EDC)
- ❖ Grievance Redressal
- ❖ Alumni Association
- ❖ Parents Association
- ❖ Student welfare Committee
- ❖ Anti- Ragging
- ❖ Timetable Committee
- ❖ Class Coordinator/ Year Coordinators
- ❖ Research Committee
- ❖ Women's empowerment Cell
- ❖ ISO & IQAC Coordinator
- ❖ Sports Monitoring Committee
- ❖ Hostel Monitoring Committee
- ❖ Transport Committee

- ❖ Discipline Monitoring Committee
- ❖ Higher educational cell

The above all committees are working under the leadership of Principal, Vice-Principal and Planning. Further, the Governing Body meeting is organized once in twelve months to discuss the strategic plan and academic progress of the Institution. The new policies and plans will be implemented if they satisfy the Institutional vision and mission.

#### **6.1.5 Give details of the academic leadership provided to the faculty by the top management?**

The Board of Governance is always supportive towards academic work in the Institution. The academic leadership is given to the key faculty members by the Board of Governing Body for setting the academic priorities and exposing to spectrum of knowledge, creating culture of promoting Research. It provides freedom to faculty members to strengthen their teaching and learning and there by enriching student quality. The faculty members are responsible to complete their desired goal in the best possible manner within the stipulated period. The HODs are vigilant about discipline, continually monitors the commitment and execution of work allotted to the faculty of concerned department and Principal is monitoring the implementation of decision taken by HODs for their departmental growth.

#### **6.1.6 How does the Institution groom leadership at various levels?**

The Board of Governing Body has allocated responsibilities to various departments and few are mentioned below:

- ❖ Principal–Head of the institution- executing strategic plan to fulfill institutional vision and mission.

- ❖ Vice-Principal- Suggests and coordinated with Principal in Academic and Non-Academic activity for the growth of institution.
- ❖ Planning officer-executing the individual plan for the department to attain fulfillment of teaching learning process.
- ❖ Heads of the Department – Responsible for growth of the departments in align with department vision and mission.
- ❖ Examination Cell coordinator- Responsible for coordinating all academic assessments activities.
- ❖ Placements Officer – all categories of placement activities will be initiated and intimated to students through HODs.
- ❖ Training Officer – Responsible for organizing personality development classes.
- ❖ The institution also constituted some important committees for developing growth of students for both academic and non academic activities. The senior faculty members are nominated as committee members. It provides a platform for the members to exhibit and groom leadership skills. A few committees are mentioned below.
  - ❖ Anti-Ragging Committee
  - ❖ Grievance Redressal Committee
  - ❖ Women Empowerment Cell
  - ❖ Entrepreneurship Development cell

In order to develop leadership qualities in students, the institution encourages Departments for synchronizing association activities, conferences, organizing symposiums, seminars, workshops etc.

**6.1.7 How does the college delegate authority and provide operational autonomy to the departments / units of the institution and work towards decentralized governance system?**

- ❖ The Board of Governing Body provides sufficient freedom to the Principal, who is the head of the Institution for accomplishing the Vision & Mission of the Institution.
- ❖ Academic roles and responsibilities are allotted to all Faculty members.
- ❖ Committees are formed for academic & various co-curricular activities to be conducted during the course of the academic year. The list of the committees and members contact details are displayed at various points in the institution.
- ❖ At the same time, decentralization is perceived as a means of improving the efficiency of educational systems and the quality of educational services.

**6.1.8 Does the college promote a culture of participative management? If „yes“, indicate the levels of participative management.**

Yes, The Board of Governing Body is always open to discuss with the teaching and non-teaching staff which, in turn, encourages the involvement of the staff for the improvement of Institution. In addition to the department meetings, inter departmental meetings are also arranged to address common agenda. The Principal with the Heads of the Departments discuss the needs, problems and suggestions to improve the educational quality and infra-structure developments. The Principal interacts with the Board of Governing Committee for further action and the committee discusses the consolidated views with the senior faculty members. The Institution encourages the faculty members to



participate voluntarily with involvement in every work including the preparation of reports.

**There are various committees constituted to manage different institutional activities. The available committees are as follows:**

- 1) Academic Committee
- 2) Research Committee
- 3) Anti Ragging Committee
- 4) Grievance Redressal Committee
- 5) Examination Committee
- 6) Disciplinary Committee
- 7) Sports & Cultural Committee
- 8) Library Committee
- 9) Women's Cell
- 10) College Magazine Committee
- 11) Student Welfare Committee
- 12) Internal Quality Assurance Cell

## **6.2 Strategy Development and Deployment**

### **6.2.1 Does the Institution have a formally stated quality policy? How is it developed, driven, deployed and reviewed?**

Yes.

Based on vision and mission, institution has formulated quality policy. An Internal Quality Assurance System (IQAS) has been formulated to organize the institution to drive to meet the vision and mission.

The IQAS issues rules and policies to faculty through planning officer for attaining vision and mission. All the decisions and policies prepared by IQAS will be implemented by Principal with the Board of Governing Body

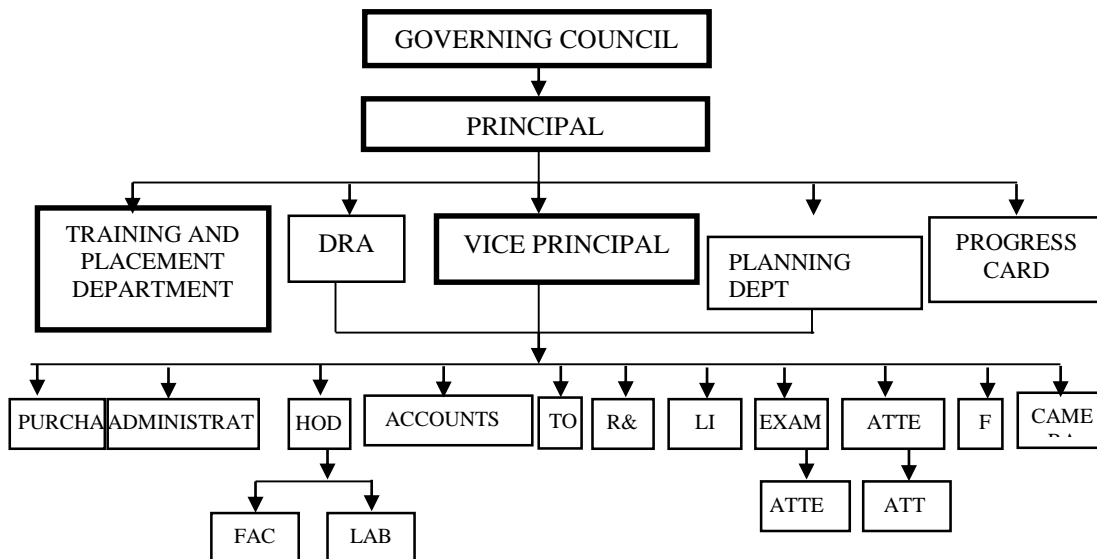
approval. The implementation will be done by planning officer to meet the requirements of vision and mission.

Any improvements in the vision and mission are discussed / reviewed in the departmental level by DAB. The Collected views are placed during governing council meeting, where charges on vision and mission is reviewed and approved at institutional level.

**6.2.2 Does the institute have a perspective plan for development? If so, give the aspects considered for inclusion in the plan.**

Yes. The institution intends to extend its development work which is already being carried out in the Institution. The perspective institutional plan is developed in consultation with the stakeholders. In order to frame the development strategy, the committees are constituted for each and every developmental work. Faculties have to participate in all the Institutional plans and wherever the situation demands, students and members of different committee are involved.

**6.2.3 Describe the internal organizational structure and decision making processes.**



DRA: Department for Regulatory Authorities.

TO: Technical Officer

EXAM: Examination Cell

ATTE: Attendance Cell

FO: Finance Officer

FAC: Faculty

L.Ins: Lab Instructors

**6.2.4 Give a broad description of the quality improvement strategies of the institution for each of the following**

**Teaching & Learning**

- ❖ Academic Calendar
- ❖ Maintenance of Course files

- ❖ Quality of Problems in Assignments/Tests/Semester Examinations
- ❖ Tutorial Classes / Remedial Classes / ICT classes
- ❖ Guest lectures
- ❖ Industrial visits
- ❖ Inplant training
- ❖ Mentoring system
- ❖ Feedback system
- ❖ Self Learning and Learning beyond Syllabus

### **Academic Calendar**

- ❖ Month of Printing :Every year in the month of May & November
- ❖ Date of Issue : Every year on the day of re-opening /  
Commencement of classes
- ❖ No. of instruction hours: 450 periods / 90 days per semester
- ❖ The academic calendar shows the duration of each semester.
- ❖ Various academic activities schedule
- ❖ The internal evaluation schedule

### **Maintenance of Course files**

- ❖ Central academic monitoring cell is formed to monitor the of course files and class deliveries.
- ❖ This cell is constituted with the Principal as Head and Heads of the Departments as the members of the cell.
- ❖ This cell provides the guidelines for
- ❖ Preparation of course files,
- ❖ Maintenance of attendance records.
- ❖ Computerized academic monitoring system is in practice for course completion by faculty.

**For each subject, a course file is prepared by the faculty concerned. The course file consist the following items:**

- ✓ Master Time Table
- ✓ Academic Schedule-Course Timetable
- ✓ Individual Time Table
- ✓ Syllabus
- ✓ Course Materials
- ✓ Assignment Questions for Unit I-V
- ✓ 5 years University question paper with answer key
- ✓ Student Name List
- ✓ Seminar Topic
- ✓ Lesson plan
- ✓ Log Book (Attendance and Assessment Monitoring)
- ✓ Special Class Time table
- ✓ Cycle test question papers with answer key
- ✓ Slip test questions
- ✓ Weak Student List (Slow Learners)
- ✓ Tutorial Class Time Table and Topics to be Discussed
- ✓ Individual Result Analysis
- ✓ Question bank (2, 8,16 marks)
- ✓ Beyond the syllabus topics with material
- ✓ Model question paper with answer key

**Examination and Evaluation Processes:**

- ❖ Examination Time Table preparation for the conducting cycle test and model examinations by CoE.
- ❖ Invigilation list is prepared with consultation of departments by CoE.
- ❖ Seating arrangements
- ❖ Invigilation

- ❖ Submission of attendance and absentees list to the principal
- ❖ Intimation to the faculty for the valuation
- ❖ Valuation
- ❖ System Entry
- ❖ Revaluation
- ❖ Result Analysis

### **Research & Development**

The Institution is having a recognized research centre duly approved by the Affiliating University. Implications of Research based education drives the faculty member to pursue Ph.D. The Institution encourages the Faculty for research work. This resulted in increasing the enrollment of Ph.D by faculty and carrying out the sponsored research.

### **Community engagement**

The Institution conducts many activities like Youth Red Cross and NCC; the students are encouraged to undertake community-oriented activities like Social work, health-hygiene awareness, medical camp, adult education and literacy, blood donation, AIDS awareness, environmental awareness. Students and Faculty are provided with money and time by the Institution for extension activities. N.C.C. and sports students participate in such activities in coordination with N.G.Os. The Institution also organizes sports activities and encourages the students to participate in them.

The institution is preparing comprehensive plan in terms of community service as well as engagement so far, the institution is organized so many programmes under NSS, and this need to be extended further to cater the needs of local community. Youth festivals are being held by College to interact with other Colleges. College has also participated in various culture programmes held at various places

### **Human resource management**

The process of assessing adequate human power requirements, staff recruiting, monitoring and planning professional development programmes for personnel development and seeking appropriate feedback is in place. There are many staff welfare schemes and well defined promotional policy. Faculty Development Programme is conducted periodically. The institution recruits faculty members and staff based on the guidelines provided by the University. Incentives are also given to the staff members for their performances.

### **Institute Industry interaction**

The Institution interacts with various local as well as outside Institutes & Industries on various issues for the improvement of education system. The industrial experts play a key role in assessing the curriculum and its compliance with the contemporary industrial practices. This provides a scope for the institution to identify appropriate value added courses for the students. Seminars, workshops, conferences on various subjects are conducted in the Institution premises. The Institution organizes Industrial Visits to various industries. The students learn a lot from these visits. The Institute also offers specialized training for industry members and vice versa.

### **Internationalization**

The institution has geared up its activities for the past few years and established collaboration with German university and international funding agencies in terms of R&D.

**6.2.5 How does the Head of the institution ensure that adequate information (from feedback and personal contacts etc.) is available for the top management and the stakeholders, to review the activities of the institution?**

The Board of Governing Body and head of the institution are always in interactive mode with each other for institution development. The Head of Institution collect the feedback from the internal and external stakeholders with regard to the teaching quality, curriculum, extra curriculum activities and infrastructural demands. During the meeting of the Board of Governing committee, the information gathered from different sources is discussed with the participating members. After thorough discussion and deliberation of the existing facilities and activities of the Institution the suitable refinement measured are decided. The decisions are implemented by channelizing available resources and modalities.

**6.2.6 How does the management encourage and support involvement of the staff in improving the effectiveness and efficiency of the institutional processes?**

The Board of Governing Body is always encouraging and supporting the the staff in the improvement of the institutional process. The Board of Governing Body and the head of the institution involves the staff members in various activities related to the development of the Institution. The staff members are encouraged for doing Ph.D Programme, attending UGC/AICTE seminars, conferences and development of technical skills.



**6.2.7 Enumerate the resolutions made by the Management Council in the last year and the status of implementation of such resolutions.**

Few sample resolutions made by Board of Governing Body meeting in last year.

Resolution	status
Constructing R&D lab for BIOTECH and Chemical	Constructing R & D lab at ground floor
To be NAAC accredited before 2016-17 academic year	Applied for NAAC in April-2016
Recognition by UGC for grants under section 2F and 12B	Obtained Recognition by UGC
B.E-EEE and M.E-structural Engineering to be Permanently affiliated by Anna University	Nil deficiency founded by Anna University inspection team
To be NBA accredited for all branches before 2016-17 academic year	8 UG branches applied for NBA,
Renovation and beautification to be done for all blocks and seminar halls	Re-Painting is going for blocks

**6.2.8 Does the affiliating university make a provision for according the status of autonomy to an affiliated institution? If „yes“, what are the efforts made by the institution in obtaining autonomy?**

NO

**6.2.9. How does the Institution ensure that grievances / complaints are promptly attended to and resolved effectively? Is there a mechanism to analyze the nature of grievances for promoting better stakeholder relationship?**

The Institution has constituted a grievances redressal committee. The Institution has well defined grievances redressed procedure. Prompt and effective disposal of grievances of various stakeholders is being done. This committee discusses the objectives with the Principal to solve the problems for obtaining the outcome of courses. The Institution has a woman counselor who looks after the grievances and other needs of the girl students. The committee should immediately analyze the complaint and takes decision on further course of action if necessary, the issue is escalated to College Academic Committee and the Board of Governors.

**6.2.10. During the last four years, had there been any instances of court cases filed by and against the institute? Provide details on the issues and decisions of the courts on these?**

No

**6.2.11. Does the Institution have a mechanism for analyzing student feedback on institutional performance? If “yes”, what as the outcome and response of the institution to such an effort?**

Yes. The institution has clearly set and defined objectives of obtaining the feedback from the students to improve the performance and quality of the faculty. Exit level feedback from the graduates regarding learning processes is obtained. The PG departments have developed a format to obtain the feedback of its students, who are employed in various organizations. The inputs are obtained

from them and further used to improvise the overall Competency of the students for employability.

**Efforts shown by institution to overcome from low performance by students in employability:**

- ❖ Special training classes for English language, Aptitude, Reasoning, soft skill, C, C++, Java and DOT NET.
- ❖ Creation of E-tutorial rooms for every department,
- ❖ Signing MOU with MNC's for accreditation
- ❖ Creating entrepreneur cell for students to explore and implement their innovative ideas

### **6.3 Faculty Empowerment Strategies**

#### **6.3.1 What are the efforts made by the institution to enhance the professional development of its teaching and non-teaching staff?**

- 1) The Institution organizes faculty development programs (FDP) to enhance professional skills and knowledge of the faculty members.
- 2) The institution encourages staff members to attend orientation programmes organized by University or UGC, paper presentations, conferences and seminars, short-term courses, workshops, and refresher courses etc.
- 3) The institution also provides “on-duty” leave for those staff members who are sent for presenting in presentation / workshop / refresher courses.
- 4) The non-teaching staff are also given additional training in programmes such as CADD training, Tally, MS-Office. Faculties who wish to pursue higher studies are also granted special leave by the principal through Board of Governors.

- 5) More important is the welfare measures on their behalf, which seek to keep them motivated and fulfilled.

**6.3.2 What are the strategies adopted by the institution for faculty empowerment through training, retraining and motivating the employees for the roles and responsibility they perform?**

The staff are encouraged to attend orientation programmes, workshops, seminars etc. conducted by the University and other reputed institutions. They are also granted special leave to pursue higher education. On Duty leave is also provided to the staff members to attend such programmes. Employees who make outstanding contributions to the institution are also duly recognized and honored.

**6.3.3 Provide details on the performance appraisal system of staff to evaluate and ensure that information on Highple activities is appropriately captured and considered for better appraisal.**

The Principal does continuous monitoring the faculty performance. The following aspects are taken into account during performance appraisal of the faculty:

- ❖ Feedback will be collected from students on every faculty's teaching ability twice in semester is collected by planning department and the remarks are submitted to the to Principal.
- ❖ Faculty Contribution towards departmental and institutional activities
- ❖ Faculty contribution towards academic and co circular activities for students
- ❖ Research publications, paper presentations at seminars/conferences, etc.
- ❖ Feedback will be collected from the Head of the Department on faculty performance.

#### **6.3.4 What is the outcome of the review of the performance appraisal reports by the management and the major decisions taken? How are they**

The outcome of the performance appraisal of each faculty is discussed by the Principal with HODs with individual faculty with planning and DAB. The report is submitted to the Board of Governering Council members for their approval.

Following actions are initiated towards the review of the performance appraisal reports by the Board of Governering Council:

- ❖ Salary increments are based on the outcome of the performance appraisal.
- ❖ Underperforming faculty are encouraged to attend Faculty Development Programme.
- ❖ Faculty performing extremely well are requested to conduct Faculty Development Programmes and participate in Research & Development work. , conferences, seminarsn

#### **6.3.5 What are the welfare schemes available for teaching and non teaching staff? What percentage of the staff have availed the benefit of such schemes in the last four years?**

The institution provides many welfare schemes for both teaching and non-teaching faculty members. Some of them are as follows:

- ❖ The Institution gives transport facilities at concessional rate to all the staff members
- ❖ The faculty members, who attend workshops / seminars, are provided leave with pay. Further TA/DA will be provided in case of paper presentation.
- ❖ The Institution provides special leave over and above the entitled leaves in case of inevitable situations.
- ❖ All teaching faculty enjoy 4 weeks of paid holiday as vacation leave.
- ❖ Maternity leave.

- ❖ Staff welfare fund with zero interest.
- ❖ Sabbatical leave for pursuing higher studies/research is also provided.

### **6.3.6 What are the measures taken by the Institution for attracting and retaining eminent faculty?**

The measures taken by the institution to attract and retain the best faculty:

- ❖ By encouraging the interests & strengths of the faculty and providing flexible working environmental conditions for academic responsibilities.
- ❖ Salaries as per 6th pay commission recommendations.
- ❖ Performance based salary increments.
- ❖ Encouragement for Research & Development work.
- ❖ Faculty Development Programmes (Internal & external)
- ❖ Providing Staff Welfare Funds of with zero percent Interest.

## **6.4 Financial Management and Resource Mobilization**

### **6.4.1 What is the institutional mechanism to monitor effective and efficient use of available financial resources?**

The financial resources of the Institution are managed in a very effective manner. There is fully computerized Accounts Department is available in the Institution. Double entry system is also followed. The budget planning and allocation of financial resources is put in practice by the Board of Governing Council. The Principal forwards the quotation recommended by the purchase department to the Board of Governing Council for final approval. Purchases are finally made on the approval and sanction of Board of Governing Council. All the official formalities are completed and done viz. Preparation of voucher, stock entry and issue of cheques to the concerned parties/Suppliers and the records are maintained.

**6.4.2. What are the institutional mechanisms for internal and external audit? When was the last audit done and what are the major audit objections? Provide the details on compliance.**

The Institution Board of Governing Council has appointed a regular internal auditor who audits all the income and expenditure of the Institution. The academic matters are audited by ISO In-charge, the last audit was done in Dec 2014. In addition to this the Board of Governing Council has appointed an approved Chartered Accountant to audit the yearly accounts of the Institution and prepares the annual income and expenditure statement along with balance sheet of the Institution which is duly signed by him. The qualified remarks given by the auditor are taken into consideration in the forth coming years.

**6.4.3 What are the major sources of institutional receipts/funding and how is the deficit managed? Provide audited income and expenditure statement of academic and administrative activities of the previous four years and the reserve fund/corpus available with institutions, if any.**

Following are the major sources of institutional receipts / funding:

- ❖ Tuition Fees
- ❖ Hostel Fees
- ❖ Bus Fees
- ❖ R&D

Any financial requirement/expenditure raised by departments can be permitted by the Principal with the approval of the Board of Governing Council; the amount will be disbursed from time to time.

**6.4.4 Give details on the efforts made by the institution in securing additional funding and the utilization of the same (if any).**

Institution is recognized by UGC under section 2F and 12B for receiving grants, some other funding agencies like AQIS-AICTE, CSI, SERB are also helping the institution for grant sanctions.

**6.5 Internal Quality Assurance System (IQAS)**

**6.5.1 Internal Quality Assurance Cell (IQAC)**

**a. Has the institution established an Internal Quality Assurance Cell (IQAC)? If „yes“, what is the institutional policy with regard to quality assurance and how has it contributed in institutionalizing the quality assurance processes?**

Institution has established Internal Quality Assurance system. The Institution gives utmost importance to ensure quality in every aspect of the working of the Institution both academic and non-academic, realizing the role and importance of IQAS in the quality assurance process.

The institution's vision drives the institutional policy with regard to quality assurance. The institution recognizes that quality in all aspects in attracting the best of the students and staff. The institution believes that a proper quality assurance strategy leads to desirable outcome.

**b. How many decisions of the IQAC have been approved by the management / authorities for implementation and how many of them were actually implemented?**

Decisions on various development strategies taken in the development council and staff council meeting were approved by the Board of Governing Council. The Board of Governing Council representatives always attend the development council and staff meetings. Some of the decisions thus taken include:



- ❖ To increase the number of seats for UG programme and PG programme.
- ❖ CC TV Cameras in all the Class rooms
- ❖ Digital Library
- ❖ Purchase of more Computers
- ❖ Wi-Fi enabled campus

**c. Does the IQAC have external members on its committee? If so, mention any significant contribution made by them.**

Yes, the IQAS has a retired Professor as an external member. Time by time some suggestions are made by external members and that are approved by Department Advisory board of concerned Department and being implemented.

- ❖ Conducting knowledge sharing sessions among faculty to enhance the breadth and depth of knowledge among the faculty.
- ❖ Creation of the second seminar hall for placement training exclusively to impart better training and to conduct mock placement drives.
- ❖ Distributing library books to weaker students in week rotational manner and giving assignments to them

**d. How do students and alumni contribute to the effective functioning of the IQAC?**

The students put forward good suggestions for the enhancement of quality in the functioning of the Institution. The alumni of the Institution meet the faculty of their departments as and when they visit the institution at the time of Alumni Meet every year. The alumni share their experiences and job market expectation. The alumni of the institution are considered as assets and every suggestion is given due respect and implemented by the Institution for

betterment of students. It is proposed to make IQAS stronger by ensuring the active participation of alumni in IQAS in coming years.

**e. How does the IQAC communicate and engage staff from different constituents of the institution?**

The reconstituted IQAS consists of Principal, HOD/Academic coordinators and Faculty representing all disciplines, administrative staff, Board of Governing Council representative, student representative and alumni. The IQAS coordinators will get suggestions and feedback from all department and handover to IQAS committee members, they will issue the circular and policies to implement to improve quality of institution.

**6.5.2 Does the institution have an integrated framework for Quality assurance of the academic and administrative activities? If „yes“, give details on its operationalization.**

Yes, The Institution has different committees for quality assurance; these committees work in accord with the quality policy of the Institution aiming at improvement of the academic atmosphere and the administration of the Institution. The academic quality is ensured by focused teaching-learning process and effective feedback system. The institution has built in an integrated support system where the administrative staff contributes substantially to achieve academic quality.

**6.5.3 Does the institution provide training to its staff for effective implementation of the Quality assurance procedures? If „yes“, give details enumerating its impact.**

Yes. The Institution organizes orientation programmes to develop the quality of teaching among the staff members. It helps faculty members in understanding and to implement academic policies effectively. Moreover, The

Institution has adopted a participative decision making process wherein the faculty contribute effectively towards the development of the institution. The Board of Governing Council monitors every activity both academic and non-academic through staff council and development council meetings to ensure highest quality in services provided. Faculty is evaluated using the Academic Performance Indicators.

The training sessions helped the staff to understand the importance of quality in all aspects of the institution and also to appreciate the tangible and intangible benefits associated with quality and staff's role in achieving the same. The training also inspired the staff to adhere to the institutional policies to achieve the desired outcome.

**6.5.4 Does the institution undertake Academic Audit or other external review of the academic provisions? If „yes“, how are the outcomes used to improve the institutional activities?**

Yes. After declaration of final exam results, results are analyzed by all the departments and findings are reported to Board of Governing Council. The results are discussed in a meeting organized by the Board of Governing Council committee. One or two eminent professors are invited in this meeting to get their valuable suggestions. At the end of the session IQAS reviews the academic provision which helps in planning for coming session. Every semester, result review/ analysis is conducted to further enhance the teaching learning process. The lesson plan system acts as an internal audit measure in ensuring the completion of the syllabus by staff members. Timely ISO documentation is done by all the faculties under the ISO coordinator.

The following aspects of academics are included for audit

- ❖ Readiness of course files, laboratory manuals, lesson plans
- ❖ Students attendance (weekly and monthly)

- ❖ Progress of delivery of curriculum (weekly by HOD and monthly by Principal)
- ❖ Review of mid-term marks (after every mid-term exam)
- ❖ Review of Results (after announcement of results)
- ❖ Organizing departmental activities, seminars and workshops

**6.5.5 How are the internal quality assurance mechanisms aligned with the requirements of the relevant external quality assurance agencies / regulatory authorities?**

- a. TUV Rhineland (India) Pvt ltd – for ISO 9001:2008 Certification.
- b. Centre for Affiliation, Anna University -- for Affiliation
- c. AICTE (Regulatory Authority) -- for Approvals
- d. NBA (National Board of Accreditation) New Delhi - Accreditation of Courses.
- e. ISO Certification

Through the above systems the internal quality is regulated and formatted and reviewed.

**6.5.6 What institutional mechanisms are in place to continuously review the teaching learning process? Give details of its structure, methodologies of operations and outcome?**

The institution has implemented lesson plan system, which helps all the faculty members to plan the delivery of the curriculum. The Board of Governing Council and the Principal are regularly monitoring the planned delivery of curriculum and its execution status. The faculty in charge /mentors meets the students on a regular interval under mentoring system to understand the students’ performance both in academic and non-academic areas, which

makes the teaching learning process very effective. The Principal also meets the student representatives as and when required to further reinforce the effectiveness of teaching learning process. Institutional mechanism for continuous review of the teaching- learning process is

- ❖ Students Feedback through “Student Feedback Questionnaire
- ❖ Co-coordinator’s observation
- ❖ Principal’s interaction with staff and students on monthly basis

**6.5.7 How does the institution communicate its quality assurance policies, mechanisms and outcomes to the various internal and external stakeholders?**

The Institution communicates its quality assurance policies, mechanisms and outcomes to the internal stakeholders through “Open House Meetings.” The IQAS in the planning process considers feedbacks collected from all the stakeholders to prepare perspectives on development. These developmental perspectives are discussed in the respective meetings of Advisory Board and alumni. The reflections of the meetings are incorporated in the plan. The Board of Governing Council has developed evaluation tools for stakeholders to record their opinions, suggestions and objections for constructive developments for future.

## **CRITERIA VII: INNOVATIONS AND BEST PRACTICES**

### **7.1 Environment Consciousness**

#### **7.1.1 Does the Institute conduct a Green Audit of its campus and facilities?**

Yes, our institute consists of 30.06 acres with greenery in and around campus, and committed for responsibilities for the environment and frequently monitors the greenery maintenance of the campus

Environment consciousness is one of the extended mission's of the Institution and tree plantation. The Institution which is nestled in the midst of trees is considered as very important by the Board of Governing Council to maintain the beauty of the campus so as to provide a pleasant and healthy atmosphere for the academic and non-academic pursuits.

The following aspects are made in campus to ensure green audit.

- ✓ Collection and proper disposal of waste time to time.
- ✓ Maintenance of home turf and plants all over the campus.
- ✓ Proper maintenance of amenities in the campus.
- ✓ Optimum utilization of electricity and water.

This institution maintains a clean and green environment in the campus. We have separate maintenance departments to take care of maintaining and renovating the garden. Water is stored by using rain water harvesting process. All staff members are informed to conserve energy by switching off lights and fans when they are not in use. We have a power shutdown from 1pm to 2pm on daily basis for energy conservation, with the exception of very important programs.

Campus areas are assigned to NCC and YRC Volunteers for planting, watering, deseeding and maintaining the plants and trees.

### **7.1.2 What are the initiatives taken by the college to make the campus eco-friendly?**

This institution has taken several initiatives to make the campus eco- friendly

#### **Energy Conservation**

Minimal consumption of energy is the saving factor of energy conservation in the campus. The use of CFL bulbs instead of Tungsten lamps and using open air gallery for conducting College level meetings and functions are followed.

- ❖ Our institution has 12 blocks, and constructed in such a way that each room has proper ventilation and natural lightning. This minimizes our campus of lower electricity consumption.
- ❖ In our institution all lights are of with CFL & LED lights.
- ❖ Institution is making awareness program regarding energy saving and power consumption for students and faculty members. The Incandescent bulbs are replaced with high efficient CFL bulbs.
- ❖ Boards are displayed in every class rooms reminding students/faculty to switch off electrical appliances when not in use.

In addition to students and faculty, electrical maintenance staff also involve in the switching off the unwanted lights, fans and other electrical devices to avoid wastage of energy.

#### **Use of Renewable energy**

The identification of renewable, sustainable and affordable energy sources has led to the installation of solar water heaters in the hostels.

Grey water in the hostel is treated and used for drip irrigation in the gardens. 2/3 of water from RO plants is treated and used for plants and trees in the Institution.

### **Rain Water Harvesting**

The drainage system within the campus is designed in such a way that the rain water is diverted into sink pits within the campus which contributes to rising of ground water level. All the buildings in the campus are provided with rain water harvesting facility. The water treatment plant is also available in the campus. The treated water is used for non-drinking purposes.

### **Check dam construction**

The topography of the campus does not support construction of a check dam.

### **Efforts for Carbon neutrality**

The Institution ensures that the vehicles owned by it regularly conducts carbon emission test. In laboratories all CRT monitors have been replaced with LCD monitors. Use of tobacco and cigarettes are strictly prohibited inside the campus.

### **Plantation**

The green ambience of The Institution is largely due to tree plantation. There are about 2500 trees of various kinds in the campus. They help to maintain the ecosystem. YRC volunteers have planted a large number of trees.

### **Hazardous Waste Management**

The campus has a good waste disposal system. The cleaners are given separate disposal bins to collect hazardous waste and cleaners are also given safety measures like gloves and shoes. The institution acquired Pollution Control Board Clearance for effective waste disposal.

### **E-Waste Management**

Electronic goods are put to optimum use; the minor repairs are set right by the staff and the laboratory assistants while the major service is carried by our professional technicians hired from the reputed companies. However some E-waste are stored in separate rooms and periodically disposed in proper way.



## **7.2 Innovations**

### **7.2.1 Give details of innovations introduced during the last four years which have created a positive impact on the functioning of the Institution.**

Institution believes that daily change will does to strive innovative in the functioning. Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College follows many innovative practices which have effectively brought a lot of improvements in the functioning of the institution. The details of the innovations are given below:

#### **Innovations in Curricular Aspects**

- ❖ Adoption of interdisciplinary courses in core and elective.
- ❖ Adapting Outcome Based Learning methods in the Institution.
- ❖ Mandatory UG level mini projects.
- ❖ Through innovations cell we submit innovative projects to various competitions.
- ❖ Well proposed semester-wise teaching plan by all faculties, in advance.
- ❖ Effective placement training programmes for both technical and non-technical.

#### **Innovations in Teaching, learning and Evaluation**

- ❖ ICT enabled classrooms.
- ❖ Installation of Interactive Boards.
- ❖ Assignments in all subjects.
- ❖ Internet access for 1 hour per week and after 3.45 pm students can use e-library.
- ❖ Encouraging publication of papers by faculty and students by providing incentives.
- ❖ Research projects funded by AICTE.
- ❖ Internet / Wi-Fi facility for hostel students.

### **Innovations in Infrastructure and Learning Resources**

- ❖ Indoor / outdoor sports facilities.
- ❖ Establishment of NPTEL, EDUSAT and e-journal (DELNET) in our library.
- ❖ RO Drinking water plant.
- ❖ Waste water treatment plant.
- ❖ Surveillance camera in the Campus.
- ❖ Library stock verification by the Computer Assisted – Portable Data Collection Terminal.
- ❖ Supportive environment for Physically Challenged persons.

### **Innovations in Students Support and Progression**

- ❖ YRC,NCC and other sports programme
- ❖ Independence Day / Re-public day celebrations with NCC parade.
- ❖ Availing all new scholarships from state / Central Governments.
- ❖ Grievance boxes at various places.
- ❖ Computerization of student profile.
- ❖ Student Development Programme / Mentorship, tutor / Advisor.

### **Innovations in Governance, Leadership and Management**

- ❖ Biometric attendance for faculty
- ❖ Staff Entry system for all subjects via internet.
- ❖ Internet connection to the departments.
- ❖ Solar water heaters in the hostel.
- ❖ Institutional membership in Professional bodies like MISTE, ISTE, AIH, consulting civil Engineers in India, CII involvement, Institution of Engineers, India.
- ❖ R & D Meeting for every week.
- ❖ ISO Certification.

- ❖ Students are encouraged to organize department level programmes like national conference, workshop etc., to improve their organizing leadership qualities.

**Other information relating to encourage the innovations in our Institution:**

**Internal Quality Assurance Cell**

- ❖ The cell ensures the quality of teaching, learning and administration of the Institution.
- ❖ Development and application of quality benchmarks in various academic fields.
- ❖ Organization of FDP, Workshops, Seminars and conferences.
- ❖ Documentation of details.

**Social Responsibility**

- ❖ NCC and Youth Red Cross units are actively functioning.
- ❖ The students of these organizations conduct tree planting programmes, Blood donation campus, road safety week and rallies on Health awareness programmes in the nearby villages.
- ❖ During Independence and Republic days the student volunteers visit the orphanages, gifting the inmates, conducting cultural events and interacting with them.

**Feedback system**

- ❖ A feedback system is followed in this institution to enable quality teaching by the faculty.
- ❖ Feedback forms are collected and corrective actions are taken.
- ❖ Various class committee meetings give inputs about faculty and their method of teaching.

### **Online Information Sharing System**

- ❖ The Institution posts various information's about academic events, exam dates, holidays etc., in the dedicated College website.
- ❖ Online mentoring system is practiced to enable parents & students to know about the academic performance and attendance status.
- ❖ The parents of the absentees are informed regularly by SMS system on daily basis.
- ❖ The academic performance of the students is regularly updated in the Institution website.

### **Placement Cell**

- ❖ The Institution provides excellent placement activities in both on campus and off campus.
- ❖ Separate placement training classes are conducted for both technical and non-technical areas.

### **Entrepreneur Development cell**

- ❖ The curriculum based projects and additional mini projects are assigned to the students by their guides to develop their entrepreneur skills.
- ❖ Guest Lectures by experts from industries and MNCs are regularly arranged to motivate the student about entrepreneur skill development.
- ❖ In-Plant training and industrial visits are encouraged to provide motivation to students to become entrepreneur.

### **Inter-Religious Festivals**

- ❖ Major festivals of all religions are observed in the campus. Students and staff actively participate in all programmes to develop inter – religious faith and social harmony between them.

## **R & D Cell**

- ❖ Faculty and students are encouraged to undertake funded and non-funded research activities.
- ❖ Students are motivated to take part in competitions related to innovation in R&D conducted by other institutions / organizations.
- ❖ Students project are submitted for TNSCST funding.

## **7.3 Best Practices**

**7.3.1 Elaborate on any two best practices in the given format, which have contributed to the achievement of the Institutional Objectives and/or contributed to the Quality improvement of the core activities of the Institution.**

### **Practice I**

**Title of the practice: Bon Voyage and Knowledge Research Centre (KRC).**

#### **1. Objective**

Our Institution always thinks that “Life long Learning” should be the ideal way to reach the goal. The main objective of the system is to enable parents & students to know about the importance of higher education and to enable the growth of students to learn from hands on training. In accordance with the old and wise adage-Prevention is better than cure, our institution always likes to adopt a proactive approach towards all aspects of the institution and accordingly create a good environment for development of the students in the higher education. The system also aims at providing a macro level overview of various aspects of the institution to enable constructive analysis, decision making and planning for future development.

In addition, the institution likes to involve the students in the process of analysis, decision making and planning and also enable them to understand various aspects of the curriculum and practices in institution, challenges

associated with the same, practical measures to meet with the challenges, thereby encouraging leadership and ownership among the students for various levels of practices.

## **2. The Context**

The Institution offers 8 UG courses and 3 PG Courses. We have created Knowledge Resource Centre (KRC) to improve the project management ability of the student and also KRC increases the ability to overcome and to survive in challenging fields of projects. The Bon Voyage Scheme is provided by the Institution in terms of financial support and assistance to alumni and students. This will enable them to excel and makes constructive and long lasting impact on the lives of the students and their families. Given the complexity of activities and diverse nature and needs of the stakeholders, it is essential to support the students for doing higher education.

## **3. The Practice**

Our institution has various Committees/Cells to monitor the student activities and to encourage them at all levels of academia.

- 1) Time table committee
- 2) Attendance committee
- 3) Department Association committee
- 4) Counselling committee
- 5) Guest lecturer and Industrial visits committee
- 6) Stakeholders data committee
- 7) Project Committee and Knowledge Resource Centre (KRC).
- 8) Bon Voyage and Alumni Cell
- 9) Women empowerment cell

- 10) Grievance & Redressal cell
- 11) Entrepreneurship Development Cell
- 12) Library Committee
- 13) Purchase Committee
- 14) Planning and Execution Cell
- 15) Attendance Cell

The Head of the Institution, along with the Heads of the Departments, conducts reviews with these committees / cells once in a month. The activities, achievements, challenges and issues faced by the committees are discussed and appropriate steps are taken from an academic point of view to achieve maximum results in future.

Staff members are advised to update the Knowledge Resource Centre by advising students with more minor and major projects and to motivate them regarding higher education; the parents of the Alumni are informed about the importance of Higher Education regularly by SMS system. The Head of the Institution, along with the HODs, conducts review of the activities going on in Bon Voyage and Alumni Cell once in three months. Appropriate decisions are taken to improve the infrastructure and maintenance of the facilities to create a better environment.

#### **4. Evidence of Success**

The various types of reports from the Committees/ Cells can be generated in less time. The detailed project information of all projects is maintained by KRC. The Pre Finalyears students are visiting the KRC regularly and clarifying doubts for the future enhancements. After creation of KRC, from Mechanical Department students made solar car. Alumni Cell will provide the students information to encourage students by giving some financial support in

the name of Bon Voyage for those who will do Higher Education in outside India. This motivates the students to keep in touch with the Institution. After Creation of Cell about 11 students are availed financial support through Bon Voyage facility.

Some of the important achievements as a result of the Bon Voyage and Knowledge Resource Centre (KRC);

- ❖ Gradual increase of Bon Voyage students.
- ❖ Students Innovative Projects have been increased through Knowledge Resource Centre (KRC) and won some competitions held in various Institutions and Organizations.
- ❖ Admissions are far better than the other Colleges in the same town and many other institutions in the state.
- ❖ Consistent placements achieved by the students in the last four years.

Bon Voyage details in Institutional Website

<http://www.velhightech.com/bonvoyage.htm>

## **5. Problems encountered and resources required**

- ❖ Some Alumni students have failed to give their Bon Voyage in Institution.
- ❖ The mobile number and Email Address of Alumni students / parents should be updated periodically.
- ❖ Most of the students focus only on academics and seldom come forward for other activities after completion of their courses.
- ❖ Encouraging students is a herculean task for the mentors as well as other faculty for Higher Education in out side India.



## **Practice II**

### **Title of the practice: Implanting Outcome Based Learning Methodologies.**

#### **1. Objective**

Institution always considers that students are primary Stakeholders for an educational organization. The institute is making enormous efforts for all round development of the students. So, to develop the learning skill, values and attitudes the Institution adapted Outcome based Learning Education. The principal objective of introducing the Outcome Based education is to develop the skill based concept learning in students. This practice is able to encourage the students for better understanding of curriculum system and to achieve the tasks.

#### **2. The Context**

Now a days, Stackholders are thinking that the conventional learning methodologies provides minimal employability in reputed companies in the duration of course and also lack of depth in curriculum, they are unable to be entrepreneurs. The competition world is enlarging its boundary with in short time, so, there should be new methodologies in learning to assure the student for placement and or to become enterperner. Since the Institution is an Affiliated Institution , the curriculum should be delivered in a better way with in limited schedule. The implementation of outcome based education will increase the ability of the students to understand the Curriculum. This made the students to think out of the box with a good grasping ability and with practical exposure in an easier and effective way without deviation. In view of the above, the institution has come up with Outcome Based learning Methodologies to the students in curriculum delivery.

### 3. The Practice

The Practice includes,

1. Definition of Vision and Mission Statement for the department in alignment with Institute's Vision and Mission Statement.
2. Definition of Programme Educational Objectives and Programme Outcomes.
3. Definition of Course Outcomes for each and every course in the curriculum.
4. Based on Knowledge Level of the Course Outcome, Identifying appropriate teaching method for each and every concept in the syllabus.
5. Development of Assessment methodologies to measure attainment of Course Outcome, Programme Outcome.
6. Identifying and Implementing Continuous Improvement measures.

<http://www.velhightech.com/civil.htm>

As part of Outcome Based learning Methodologies, Students are made to write the Outcome for every activity that they perform in experiments, Industrial Visit, Inplant training, Unit Completion and projects etc.,. The curriculum will be taught in a process of saying with 'what', 'why', 'where' and 'how'. The students will write resultant of each unit and other curriculum activity in such a way that the above questions will fulfill. HODs will verify the resultant by mapping with course outcome in the presence of students mentor and give report to Planning cell. The Student performance will be observed by this Outcome Based learning Methodologies. The HODs will collect the regular feedback from students as faculty is made to deliver the curriculum in Outcome based methods

or not, if required faculty is instructed to go for FDPs (Faculty Development Programmes) to ensure in better deliverable methods.

### **Outcome based Learning Methodologies**

- ❖ The process of teaching the Curriculum to attain Outcome based Education is done to all faculty by FDPs conducted in our institution before commencement of academic year.
- ❖ Faculty are asked to give course files of their subjects with course outcome.
- ❖ DAB (Department Advisory Board) will analyse the faculty course file if needed suggests the faculty to take remedial actions by participating in Faculty Development Programmes.
- ❖ Course file should contain the Outcome of each unit and the answers of 'what', 'why', 'where' and 'How' for all topics in course.
- ❖ Students are made to give the feedback and to write Outcome of each Unit completion. Which made the student to learn the curriculum in understandable manner.
- ❖ If students are indentified as slow runners then the special remedial classes will be done apart of regular classes with some extra deliverable methods.
- ❖ Good behavior and performance are appreciated and improvements, if any, are suggested by the mentors.
- ❖ Good and top performers are further encouraged to aim at university ranks, higher studies and jobs at multi-national companies
- ❖ The student opinions on the institution, challenges being faced by the student are also discussed during the interaction.
- ❖ If the mentor of students feels that a student needs additional help from senior faculty, the same is informed to the Head of the Department and DAB then, if necessary, to the Principal.

### **Evidence of Success**

The mentors have always seen improvement in terms of their attire, academic performance, body language and communication skills. More specifically, many students have improved very well in their third and final years of study (undergraduates). The institution's pass percentage has always been more than the university average and every year some university ranks are achieved in most of the branches.

The toppers in the respective classes have always been encouraged to step up their preparation and that resulted in two university ranks for the academic year 2014-15. In spite of difficult employment market conditions, the students of the institution have got good number of job opportunities in campus placements.

The results clearly indicate that the 'Outcome based learning methodology will immensely benefit the students. They improve not only in academics but also in co-curricular & extra-curricular activities, language skills etc. due to persistent efforts of respective mentors.

Students Achievements published in institutional Website


<http://www.velhightech.com/stuachievements.htm>

<http://www.velhightech.com/achievements.htm>

### **Problems encountered and resources required**

As our institution is affiliated to Anna University, Institution can't frame the Curriculum syllabi of courses. But the Curricular gaps will be identified by the faculty through feedback analysis and made arrangements by teaching beyond syllabus. Some Students are from Tamil medium and more remedial classes are needed to make them understand to write Outcome of Topics.

## Annexure-A1- Anna University Affiliation 2015-16

	<b>ANNA UNIVERSITY</b> CHENNAI - 600 025, INDIA	Phone : (O) 22352161, 22357004 Fax : 91-44-2235 1956 Gram : ANNATECH E-mail : registrar@annauniv.edu
<b>REGISTRAR</b>		

Lr No. 02 /AFFLN/CAI/AU/2015-16/1130 Date: 12-05-2015

To  
The Principal,  
Vel Tech High Tech Dr Rangarajan Dr Sakunthala  
Engineering College,#60, Avadi-Alamathi Road, Morai  
Village, Vellanur Post, Ambattur Taluk, Tiruvellore  
District-600062

Sir,

Sub: AU - AFFILIATION - Provisional Affiliation for the existing course(s) / New course(s) / variation in  
intake - U.G. / P.G. for the academic year 2015-16 Granted - Reg.

Ref: 1. Your application for affiliation for the academic year 2015-16  
2. AICTE Approval for the academic year 2015-16.

I am to inform that under the provisions of Section 7.6.1 of the Statutes for affiliation of Anna  
University, Chennai, **Provisional Affiliation** for the continuation of the existing course(s) / new course(s) /  
variation in intake in the existing course(s) is granted for the following U.G / P.G. courses with the sanctioned  
intake mentioned against each course for the academic year **2015-16** at **Vel Tech High Tech Dr Rangarajan  
Dr Sakunthala Engineering College,#60, Avadi-Alamathi Road, Morai Village, Vellanur Post,  
Ambattur Taluk, Tiruvellore District-600062.**

Sl. No.	Degree	Course(s)	Sanctioned Intake	
			2014-15	2015-16
1	B.E.	Computer Science and Engineering	120	120
2	B.E.	Electrical and Electronics Engineering	60	60
3	B.E.	Mechanical Engineering	120	120
4	B.Tech.	Bio-Technology	60	60
5	B.Tech.	Information Technology	60	60
6	M.B.A.	Master of Business Administration	60	60
7	M.C.A.	Master of Computer Applications	60	60
8	M.E.	Structural Engineering	18	18

The above said **Provisional Affiliation** is being granted subject to the fulfillment of the conditions  
mentioned below:

- Production of Originals of AICTE / COA / DGS approval and all other related documents for  
verification, whenever demanded by the University.
- Verification by a committee towards the fulfillment of the conditions mentioned above and the  
continued fulfillment of the requirements for the above-mentioned course(s) as per the norms and  
standards of AICTE and the laboratory requirements as per the curricula and syllabi of Anna

1 of 2

University, Chennai for the above courses. In the event of any violation/infringement of the above said conditions and / or the provisions of Anna University, Chennai Act / Statutes / Regulations, AICTE Act, norms & standards / regulations / guidelines or any other law time being in force, suitable action including suspension / withdrawal of affiliation of course(s) may be initiated against the college.



- Under no circumstances, fresh admission be made in the above course(s) during the academic year 2015-16, until and unless the continuation of provisional affiliation is obtained from the University.

The Provisional Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of TAMILNADU Reforms (LC) Act 1961 subject to the decision of the Hon`ble High Court of Madras in W.A. No. 3454 / 2002 batch and W.A. No. 3482 / 2002 batch.

The Chairman should submit an undertaking duly signed on a Rs.100/- non-judicial stamp paper to **The Registrar, Anna University, Chennai 600 025**, as per the format enclosed towards grant of continuation of affiliation for the academic year 2015-16.





Copy to:

Yours sincerely,  
  
1-15  
  
**REGISTRAR**  
**REGISTRAR**  
**ANNA UNIVERSITY**  
**CHENNAI-600 025**

**Director CAI**

1. The Commissioner of Technical Education; DOTE campus, Chennai - 600 025.
2. The Regional Officer, Southern Regional Office, AICTE, 26,Haddows Road,Shastri Bhawan,Chennai 600 006.
3. The Controller of Examinations, Anna University, Chennai - 600 025.
4. The Director, Student Affairs, Anna University, Chennai - 600 025.
5. Master file.

## Annexure-A2-Permanent Affiliation 2013-14

 PROGRESS THROUGH KNOWLEDGE	<b>ANNA UNIVERSITY</b> CHENNAI - 600 025, INDIA	Phone : (O) 22352161, 22357004 (R) 22420095 Fax : 91-44-2235 1956 Gram : ANNATECH E-mail : registrar@annauniv.edu																		
<b>REGISTRAR</b>																				
Lr. No. 087 / CAI / Permanent Affln. / 2013-14		Dated: 13.05.2014																		
To																				
The Principal, <b>Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College,</b> #60, Avadi-Alamathi Road, Morai Village, Vellanur Post, Ambattur Taluk, Tiruvellore District 600 062.																				
Sir,																				
Sub: <b>Permanent Affiliation</b> - Granting of Permanent Affiliation for the existing programmes – 2013-14 – Reg.																				
Ref: 1. Resolution 53.3 of 53 <sup>rd</sup> SCA meeting held on 04.10.2013. 2. Resolution 228.26 of 228 <sup>th</sup> Syndicate held on 28.01.2014.																				
*****																				
I am to inform that under the provisions of section 7.6.2 of the Anna University statutes for affiliation, <b>Permanent Affiliation</b> for the existing programme(s) is granted for the following B.E. / B.Tech. / B.Arch. / M.E. / M.Tech. / M.B.A / M.C.A programme(s) with the sanctioned intake indicated against each from the academic year 2013-14 at <b>Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College</b> , #60, Avadi-Alamathi Road, Morai Village, Vellanur Post, Ambattur Taluk, Tiruvellore District 600 062.																				
<table border="1"><thead><tr><th>Sl. No.</th><th>Degree</th><th>Programme(s)</th><th>Sanctioned intake</th><th>Year from which Permanent Affiliation is granted</th></tr></thead><tbody><tr><td>1</td><td>B.E.</td><td>Civil Engineering</td><td>120</td><td rowspan="3">2013-14</td></tr><tr><td>2</td><td>B.E.</td><td>Electronics and Communication Engineering</td><td>120</td></tr><tr><td>3</td><td>B.Tech.</td><td>Chemical Engineering</td><td>30</td></tr></tbody></table>	Sl. No.	Degree	Programme(s)	Sanctioned intake	Year from which Permanent Affiliation is granted	1	B.E.	Civil Engineering	120	2013-14	2	B.E.	Electronics and Communication Engineering	120	3	B.Tech.	Chemical Engineering	30		
Sl. No.	Degree	Programme(s)	Sanctioned intake	Year from which Permanent Affiliation is granted																
1	B.E.	Civil Engineering	120	2013-14																
2	B.E.	Electronics and Communication Engineering	120																	
3	B.Tech.	Chemical Engineering	30																	
The above said status of Permanent Affiliation is granted subject to the following conditions:																				
1. The college should obtain extension of approval by the UGC / AICTE / COA / DGS as applicable for every academic year for the above mentioned programmes with the corresponding sanctioned intake. In the absence of extension of approval from the appropriate authority, the Permanent Affiliation now granted will not be valid.																				
2. In case of increase in intake granted by the appropriate authority for a permanently affiliated programme, the college should apply to the University for the grant of																				

affiliation for the increased intake and orders of the University should be obtained for increasing the intake of the permanently affiliated programme.

3. The college should continue to fulfill the requirements for the above mentioned programmes as per the norms and standards of the University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for these programmes.
4. The college should strictly adhere to and comply with the provisions of Anna University Act / Statutes / Regulations norms and standards / guidelines or any other law time being in force.
5. The permanent affiliation granted may be suspended / withdrawn after adopting the procedures laid down in the Regulations, if the college fails to comply with the provisions made in this behalf or the college has failed to observe / implement any of the conditions of affiliation or the college has conducted in a manner which is prejudicial to the interests of University education and/or students.
6. Notwithstanding the granting of Permanent Affiliation, the university reserves its right to inspect the college to verify the continued fulfillment of the affiliation requirements as prescribed by the University for the programmes concerned.
7. The Permanent Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of Tamil Nadu Land Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A.No. 3454 / 2002 batch and W.A.No. 3482 / 2002 batch.
8. The Management is directed to submit a duly signed undertaking on a Rs.100/- non-judicial stamp paper to the Registrar, Anna University Chennai, Chennai-600 025, within 15 days from the date of receipt of this letter to the effect that the conditions specified above will be fulfilled.

Yours sincerely




Copy to:

*[Handwritten signature]*  
**REGISTRAR**  
REGISTRAR  
ANNA UNIVERSITY  
CHENNAI-600 025

- [Handwritten initials]*
1. The Commissioner of Technical Education, Chennai – 600 025.
  2. The Controller of Examinations, Anna University Chennai, Chennai – 600 025.
  3. The Director, Student Affairs, Anna University Chennai, Chennai – 600 025.
  4. The Director, Academic Courses, Anna University Chennai, Chennai – 600 025.
  5. Master File.



### Annexure – A3- Permanent Affiliation 2015-16

 <b>ANNA UNIVERSITY</b> CHENNAI - 600 025, INDIA	Phone : (O) 22352161, 22357004 Fax : 91-44-2235 1956 Gram : ANNATECH E-mail : registrar@annauniv.edu																						
<b>REGISTRAR</b>																							
Lr. No.89/ CAI / Permanent Affin. / 2015-16/1130	Dated:23.02.2016																						
To The Principal, Veltech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, 60, Avadi Alamathi Road, Morai Village, Vellanur Post, Ambattur Taluk, Tiruvellore, District-600 062.																							
Sir,																							
Sub: <b>Permanent Affiliation</b> - Granting of Permanent Affiliation for the existing programmes – 2015-16 – Reg.																							
Ref: Your application for the grant of Permanent Affiliation.																							
*****																							
I am to inform that under the provisions of section 7.6.2 of the Anna University statutes for affiliation, <b>Permanent Affiliation</b> for the existing programme(s) is granted for the following B.E. / B.Tech. / B.Arch. / M.E. / M.Tech. / M.B.A / M.C.A programme(s) with the sanctioned intake indicated against each from the academic year 2015-16 at <b>Veltech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College</b> , 60, Avadi Alamathi Road, Morai Village, Vellanur Post, Ambattur Taluk, Tiruvellore, District-600 062.																							
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1.	B.E.	Computer Science and Engineering	120	2015-16																			
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4.	M.B.A.	Master of Business Administration	60																				
The above said status of Permanent Affiliation is granted subject to the following conditions:																							
<ol style="list-style-type: none"><li>1. The college should obtain extension of approval by the UGC / AICTE / COA / DGS as applicable for every academic year for the above mentioned programmes with the corresponding sanctioned intake. In the absence of extension of approval from the appropriate authority, the Permanent Affiliation now granted will not be valid.</li><li>2. In case of increase in intake granted by the appropriate authority for a permanently affiliated programme, the college should apply to the University for the grant of affiliation for the increased intake and orders of the University should be obtained for increasing the intake of the permanently affiliated programme.</li></ol>																							

3. The college should continue to fulfill the requirements for the above mentioned programmes as per the norms and standards of the University and the laboratory requirements as per the curricula and syllabi of Anna University, Chennai for these programmes.
4. The college should strictly adhere to and comply with the provisions of Anna University Act / Statutes / Regulations norms and standards / guidelines or any other law time being in force.
5. The permanent affiliation granted may be suspended / withdrawn after adopting the procedures laid down in the Regulations, if the college fails to comply with the provisions made in this behalf or the college has failed to observe / implement any of the conditions of affiliation or the college has conducted in a manner which is prejudicial to the interests of University education and/or students.
6. Notwithstanding the granting of Permanent Affiliation, the University reserves its right to inspect the college to verify the continued fulfillment of the affiliation requirements as prescribed by the University for the Programmes concerned.
7. The Permanent Affiliation is granted without prejudice to the right of the University of requiring production of certificate required under Section 37-B of Tamil Nadu Land Reforms (LC) Act 1961 subject to the decision of the Hon'ble High Court of Madras in W.A.No. 3454 / 2002 batch and W.A.No. 3482 / 2002 batch.
8. The Management is directed to submit a duly signed undertaking on a Rs.100/- non-judicial stamp paper to the Registrar, Anna University Chennai, Chennai-600 025, within 15 days from the date of receipt of this letter to the effect that the conditions specified above will be fulfilled.

Yours sincerely



  
Director CAI

  
REGISTRAR  
REGISTRAR  
ANNA UNIVERSITY  
CHENNAI-600 025

Copy to:

1. The Director of Technical Education, Chennai – 600 025.
2. The Chairman, All India Council for Technical Education, 7th Floor, Chanderlok Building, Janpath, New Delhi-110 001.
3. The Regional Officer, Southern Regional Office, AICTE, 26, Haddows Road, Shastri Bhawan, Chennai – 600 006.
4. Master File.

## Annexure-A4 Minority GO



Higher Education (J1) Department  
Secretariat, Chennai-9.

Letter (D) No. 191, dated 12.7.2012

From  
Dr. T.S.Sridhar.I.A.S.,  
Additional Chief Secretary to Government.

To  
The Chairman,  
R.S.Trust,  
Shanthy Sudha,  
38, ABM Avenue,  
Chennai-600 028. (through the Commissioner of Technical Education, Chennai-25)

Sir,

Sub: Higher Education – Technical Education – Self Financing Engineering Colleges  
– Vel Tech High Tech Dr.Rangarajan Dr.Sakunthala Engineering College,  
Avadi, Chennai – Conferment of minority status for five years from 2012-2013  
to 2016-2017 – Orders – Issued.

- Ref. 1. G.O.(Ms) No.270, Higher Education Department, dated 17.6.1998.  
2. Judgement of the 11 Judges Constitution Bench of the Supreme Court  
of India, dated 3.10.2002 in W.P. (Civil) No.317/1993 in T.M.A.Pai  
Foundation and Ors. Vs State of Karnataka and Ors.  
3. G.O.(Ms) No.20, Higher Education Department, dated 13.2.2003.  
4. Judgement of the Seven Judge Bench of the Supreme Court of India,  
dated 12.8.2005 in Civil Appeal No.1541/2005 in P.A.Inamdar and  
Others Vs State of Maharashtra and Others.  
5. G.O.(Ms) No.386, Higher Education Department, dated 11.12.2006.  
6. Letter (Ms) No.271, Higher Education (J1) Department, dated 3.7.2008.  
7. From the Commissioner of Technical Education, letter  
No.56353/H1/2011, dated 8.3.2012.


I am directed to convey the approval of the Government for the continuance of minority  
status, already conferred in the letter sixth cited, to the Vel Tech High Tech Dr.Rangarajan  
Dr.Sakunthala Engineering College, Avadi, Chennai run by R.S.Trust, Shanthy Sudha, 38,ABM  
Avenue, Chennai-28 for a further period of five years from 2012-2013 to 2016-2017.

Yours faithfully,

for Additional Chief Secretary to Government.

Copy to  
The Commissioner of Technical Chennai-25.  
The Secretary, Tamil Nadu Engineering Admission, Anna University, Chennai-25.  
The Special P.A. to Hon'ble Minister (Higher Education), Chennai-9.  
P.S. to Additional Chief Secretary to Government, Higher Education Department, Chennai-9.  
SF/SC.

Annexure-A5 Institutional Year of starting Approval



अखिल भारतीय तकनीकी शिक्षा परिषद्  
**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
 (भारत सरकार का एक संवैधानिक संस्थान) (A STATUTORY BODY OF THE GOVERNMENT OF INDIA)

F.No.: 730-52-447(E)/ET/2002  
Date : 02.08.2002

Secretary to Govt.,  
Higher Education Department,  
Govt. of Tamil Nadu,  
Secretariat Fort St. George,  
Chennai - 600 009

Sub: AICTE approval to R.S.TRUST, SANTI SUDHA #24, ABM AVENUE, R.A.PURAM, CHENNAI-28., for establishment of VEL SRI RANGARAJAN SAKUNTHALA HIGH TECH ENGG. COLLEGE, MORAI VILLAGE, 60,AVADI ALAMATHI ROAD OR RAMANCHERI, TIRUTHANI ROAD, CHENNAI -62.,

Sir,  
Based on the letter of request issued vide letter no. 732-52-164(NDEG)/ET/2001 dated 03/03/2001 for the academic year 2002-03 and the Expert Committee constituted by the Council and as per the provisions of AICTE Act and Regulations, the All India Council for Technical Education (AICTE), is pleased to accord approval to R.S.TRUST, SANTI SUDHA #24, ABM AVENUE, R.A.PURAM, CHENNAI-28., for establishment of VEL SRI RANGARAJAN SAKUNTHALA HIGH TECH ENGG. COLLEGE, MORAI VILLAGE, 60,AVADI ALAMATHI ROAD OR RAMANCHERI, TIRUTHANI ROAD, CHENNAI -62., for course(s) and intake as given below with specific condition that admission shall be made through the Central Counseling by the Government of TAMIL NADU only. In the event the establishment of the institutions having not been operationalised, this approval is not valid unless AICTE specifically revalidates.

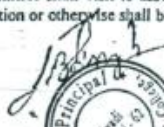

This approval is granted for the academic year 2002-03 :

- I) Subject to the condition that the minimum number of academic days required in the session are fulfilled as per the university calendar.
- II) Subject to the condition that Government of Tamil Nadu considers their case for admission through central counseling for the session 2002-03, if not so the approval may be revalidated, as per rules by the Council for the academic year 2003-04.

COURSE(S)	INTAKE	LEVEL	DURATION (YEARS)	PERIOD OF APPROVAL
CIVIL ENGINEERING	60	Degree	4	2002-03
CHEMICAL ENGINEERING	60	Degree	4	2002-03
ELECTRONICS & COMMUNICATION ENGG.	60	Degree	4	2002-03
Total	180			

This approval has been accorded subject to fulfillment of general conditions and as per the Norms and Standards of the AICTE, and also specific conditions (Annexure I).

The attention of the management is drawn to the fact that the approval given now is only for one academic session before the end of which an expert committee shall visit to assess if the norms and standards as stipulated by AICTE are fulfilled, and only then will the continuation or otherwise shall be intimated.

Principal  
Vel Sri Rangarajan Sakunthala High Tech Engg. College  
Morai Village, Avadi Alamathi Road, Chennai - 600 062

Contd 2

3-3

- 2 -

F.No. 73b-52-447(E)/ET/2002

The admission will be made in accordance with Regulations notified by the AICTE vide GSR 476(E) dated 20.05.1994 based on the Hon'ble Supreme Court Judgement dated 04.02.1993 with regard to WP(C) No. 607 of 1992 in the case of Unni Krishnas JP and other etc. V/s. State Government of Andhra Pradesh and others etc. and inter judgements. No Management/Institute/Trust or Society shall announce admissions directly under any circumstances. Any action by the institute contrary to any provisions laid down by the Council and concerned State Government shall make it liable for actions.

In the event of infringement/contravention or non-compliance of the provisions of AICTE Regulations, Guidelines or the norms and standards as prescribed by the AICTE, the Council shall take further action to withdraw approval, and the liability arising out of such withdrawal of approval will be solely that of Management/Trust/Society and/or Institution.

The Council may inspect/ visit the Institution any time it may deem fit to verify the progress/ compliance.

You are requested to daily monitor the progress made by this institution towards fulfilling the norms and standards prescribed by the Council and keep the concerned Regional Office and AICTE, New Delhi informed.

Yours faithfully,

*P.N. Razdan*  
(P.N. Razdan)

Copy to :

1. The Regional Officer, AICTE, Southern Regional Office, 26, Haddows Road, Chennai - 600 113.  
He is requested to monitor compliance with the Norms and Standards and conditions stipulated by the Council and keep the concerned Regional Committee and the AICTE informed of the same. He is also requested to ensure the receipt of notarized undertaking as specified by the Council from the institution/management concerned within the stipulate time frame.
2. The Registrar, Anna University, Chennai.  
He is requested to complete the process of affiliation for facilitating admissions.
3. The Principal, VEL SRI RANGARAJAN SAKUNTHALA HIGH TECH ENGG.COLLEGE, MORAI VILLAGE, 60 AVADI ALAMATHI ROAD OR RAMANCHERL, TIRUTHANI ROAD, CHENNAI - 62 ..  
(i) The institution should submit a notarized undertaking on non-judicial stamp paper as per format given in Annexure II to the concerned Regional Office, AICTE with a copy to the Headquarters, AICTE, New Delhi within one month from the date of receipt of this approval letter.  
(ii) The institution/management should also submit a notarized undertaking from the Governing Body to the concerned Regional Office, AICTE with a copy to Headquarters, AICTE, New Delhi and to the concerned State Government, that all the infrastructural and instructional facilities shall be in place as per the norms of AICTE prior to the admissions of any student for the academic year 2002-2003.
4. The Director of Technical Education, Govt. of Tamil Nadu, Chennai - 600 025.
5. Guard File.

*P.N. Razdan*  
(P.N. Razdan)  
Adviser (UG)



## Annexure-A6- UGC Recognition letter for 2F and 12B

Ph. 23236351, 23232701, 23237721  
23234116, 23235733, 23232317  
23236735, 23239437, 23239627

Extension No. 413 (CPP-I Colleges)  
UGC Website: [www.ugc.ac.in](http://www.ugc.ac.in)

F. No. 8-542/2014 (CPP-I/C)

The Registrar,  
Anna University  
Sardar Patel Road, Chennai – 600 025  
Tamil Nadu

**Sub:** Recognition of College under Section 2 (f) & 12 (B) of the UGC Act, 1956

Sir,

I am directed to refer to the letter dated 20.03.2015 received from the Principal, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, No.60, Avadi - Vel Tech Road, Avadi, Chennai – 600 062, Tamil Nadu on the above subject and to say that it is noted that the following college is **un-aided/self financed** and **permanently** affiliated to **Anna University, Chennai**. I am further to say that the name of the following college has been included in the list of colleges prepared under Section 2 (f) & 12 (B) of the UGC Act, 1956 under the head '**Non-Government, self financed** Colleges teaching upto **Bachelor's Degree**':-

Name of the College	Year of Establishment	Remarks
Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, No.60, Avadi - Vel Tech Road, Avadi, Chennai – 600 062, Tamil Nadu.	2002	The College is now declared fit to receive Central assistance in terms of Rules framed under Section 12 (B) of the UGC Act, 1956. However, the College, being a self financing & unaided, would be eligible to receive UGC's support only in respect of teachers & students related schemes as per the decision of the Commission dated 8 <sup>th</sup> July 2011.

The Indemnity Bond and the other supporting documents submitted in respect of the above College have been accepted by the University Grants Commission.

Yours faithfully,

(Charan Dass)  
Under Secretary

Copy to:-

1. The Principal, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, No.60, Avadi - Vel Tech Road, Avadi, Chennai – 600 062, Tamil Nadu.
2. The Secretary, Government of India, Ministry of Human Resource Development, Department of Higher Education, Shastri Bhawan, New Delhi - 110 001.
3. The Secretary, Higher Education Deptt. Government of Tamilnadu, Secretariat, Chennai - 600 009, (Tamil Nadu).
4. The Joint Secretary, UGC, South Eastern Regional Office (SERO), P.B. No. 152, A.P.S.F.C. Building, IV Floor, 5-9-194, Chirag Ali Lane, Hyderabad - 500 001, (Andhra Pradesh).
5. Publication Officer (UGC-Website), New Delhi.
6. Section Officer (FD-III Section), UGC, New Delhi.
7. Guard file.

(Charan Dass)  
Under Secretary

## Annexure-A7-AICTE Extension of Approval 2016-17



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

F.No. Southern/1-2811052746/2016/EOA

Date: 05-Apr-2016

To,

The Principal Secretary  
(Higher Education) Govt. of Tamil Nadu,  
N. K. M. Bld. 6th Floor Secretariat,  
Chennai-600009

**Sub: Extension of approval for the academic year 2016-17**

Ref: Application of the institution for Extension of approval for the academic year 2016-17

Sir/Madam,

In terms of the provisions under the All India Council for Technical Education (Grant of Approvals for Technical Institutions) Regulations 2012 notified by the Council vide notification number F-No.37-3/Legal/2012 dated 27/09/2012 and norms standards, procedures and conditions prescribed by the Council from time to time, I am directed to convey the approval to

Regional Office	Southern	Application Id	1-2811052746
Name of the Institute	VEL TECH HIGH TECH DR.RANGARAJAN DR.SAKUNTHALA ENGINEERING COLLEGE	Permanent Id	1-4011411
Name of the Society/Trust	R.S.TRUST	Institute Address	NO.60,VELTECH ROAD,AVADI, MORAL, THIRUVALLUR, Tamil Nadu, 600062
Institute Type	Unaided - Private	Society/Trust Address	38 ABM AVENUE, R.A PURAM,CHENNAI,CHENNAI Tamil Nadu,600028

Opted for change from Women to Co-ed and Vice versa	No	Opted for change of name	No	Opted for change of site	No
Change from Women to Co-ed approved and Vice versa	Not Applicable	Change of name Approved	Not Applicable	Change of site Approved	Not Applicable

To conduct following courses with the Intake Indicated below for the academic year 2016-17

Application Id: 1-2811052746			Course	Full/Part Time	Affiliating Body	Intake 2015-16	Intake Approved for 16-17	NRI Approval status	PIO / FN / O/IT quota Approval status	Foreign Collaboration/ Twinning Program Approval status
Program	Shift	Level								
ENGINEERING AND TECHNOLOGY	1st Shift	POST GRADUATE	STRUCTURAL ENGINEERING	FULL TIME	Anna University, Chennai	18	18	NA	NA	NA

Application Number: 1-2811052746

Note: This is a Computer generated Report.No signature is required.

Printed By : AE2837821

Page 1 of 3  
Letter Printed On:15 April 2016



All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-india.org](http://www.aicte-india.org)

GY										
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	BIOTECHNOLOGY	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CHEMICAL ENGINEERING	FULL TIME	Anna University, Chennai	30	30	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	CIVIL ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	COMPUTER SCIENCE AND ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRICAL AND ELECTRONICS ENGINEERING	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	ELECTRONICS AND COMMUNICATIONS ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	INFORMATION TECHNOLOGY	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
ENGINEERING AND TECHNOLOGY	1st Shift	UNDER GRADUATE	MECHANICAL ENGINEERING	FULL TIME	Anna University, Chennai	120	120	NA	NA	NA
MANAGEMENT	1st Shift	POST GRADUATE	MASTERS IN BUSINESS ADMINISTRATION	FULL TIME	Anna University, Chennai	60	60	NA	NA	NA
MCA	1st	POST	MASTERS IN	FULL	Anna University,	60	60	NA	NA	NA

Application Number: 1-2811052746  
Note: This is a Computer generated Report.No signature is required.  
Printed By : AE2837821

Page 2 of 3  
Letter Printed On:15 April 2016





All India Council for Technical Education  
(A Statutory body under Ministry of HRD, Govt. of India)

7th Floor, Chandralok Building, Janpath, New Delhi- 110 001  
PHONE: 23724151/52/53/54/55/56/57 FAX: 011-23724183 [www.aicte-India.org](http://www.aicte-India.org)

	Shift	GRADUATE	COMPUTER APPLICATIONS	TIME	Chennai						
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The above mentioned approval is subject to the condition that VEL TECH HIGH TECH DR.RANGARAJAN DR.SAKUNTHALA ENGINEERING COLLEGE shall follow and adhere to the Regulations, guidelines and directions issued by AICTE from time to time and the undertaking / affidavit given by the institution along with the application submitted by the institution on portal.

In case of any differences in content in this Computer generated Extension of Approval Letter, the content/information as approved by the Executive Council / General Council as available on the record of AICTE shall be final and binding.

Strict compliance of Anti-Ragging Regulation:- Approval is subject to strict compliance of provisions made in AICTE Regulation notified vide F. No. 37-3/Legal/AICTE/2009 dated July 1, 2009 for Prevention and Prohibition of Ragging in Technical Institutions. In case institution fails to take adequate steps to Prevent Ragging or fails to act in accordance with AICTE Regulation or fails to punish perpetrators or incidents of Ragging, it will be liable to take any action as defined under clause 9(4) of the said Regulation.

**Note: Validity of the course details may be verified at [www.aicte-india.org](http://www.aicte-india.org)**

**Dr. Avinash S Pant**  
Vice - Chairman, AICTE


Copy to:

- The Regional Officer,**  
All India Council for Technical Education  
Shastri Bhawan 26, Haddows Road  
Chennai - 600 006, Tamil Nadu
- The Director Of Technical Education,**  
Tamil Nadu
- The Registrar,**  
Anna University, Chennai
- The Principal / Director,**  
VEL TECH HIGH TECH DR.RANGARAJAN DR.SAKUNTHALA ENGINEERING COLLEGE  
NO-60,VELTECH ROAD,AVADI,  
MORALTHIRUVALLUR,  
Tamil Nadu,600062
- The Secretary / Chairman,**  
R.S.TRUST  
38'ABM AVENUE,  
R.A PURAM,  
CHENNAI,CHENNAI,  
Tamil Nadu,600028
- Guard File(AICTE)**

Application Number: 1-2811052746  
Note: This is a Computer generated Report.No signature is required.  
Printed By : AE2837821

Page 3 of 3  
Letter Printed On:15 April 2016

Annexure-A8 Proof of research centre.

**CENTRE FOR RESEARCH  
ANNA UNIVERSITY  
CHENNAI - 600 025**

Office : +91 44 2235 0361  
+91 44 2235 7025  
+91 44 2235 7027  
Fax : +91 44 2220 1213  
E-mail : [dirresearch@annauniv.edu](mailto:dirresearch@annauniv.edu)  
[dirresearch@gmail.com](mailto:dirresearch@gmail.com)

Dr. USHA NATESAN  
Director

---

Lr. No.122/IR/Chemistry/ARI Date: 21.08.2012

To  
The Principal  
Vel Tech High Tech Dr. Rangarajan  
Dr. Sakunthala Engineering College  
# 60, Avadi-Vel Tech Road  
Vellanur, Avadi, Chennai - 600 062

Sir/Madam,  
Sub: Ph.D. / M.S. (By Research) Programme – Collaborative research programme  
– Recognition as research centre – Orders - Communicated.  
Ref: Res.No.19.04 of the 19<sup>th</sup> Research Board Meeting held on 02.07.2012.  
\*\*\*\*\*

I am by direction to inform that the Department of Chemistry of your Institution has been recognized as a research centre with effect from July 2012. The faculty members of this department can interact with Anna University for collaborative research for the purpose of pursuing Ph.D. / M.S. (By Research) programmes.

The recognized supervisors working in the above department may be permitted to guide candidates to carryout Ph.D./M.S.(By Research) programme relevant to their field of specialization. Please refer "clause 7" of Ph.D./M.S. (By Research) Regulations.

The above recognition shall be renewed once in three years in compliance with the required norms for research centre including the availability of two faculty members with Ph.D. Degree in the broad area of research.

The next renewal application in the prescribed format along with the number of paper-published in SCI journals during the recognized period shall be made during June 2015 with a renewal fee of Rs.5,000/-.

*Ushayatharan*  
DIRECTOR

Encl: 1. Norms for Institute Recognition.  
2. Ph.D. and M.S. (By Research) Regulations.

21/8 21/08/12

## Annexure-A9 ISO Certification

**Certificate**

Standard **ISO 9001:2008**

Certificate Registr. No. **01 100 106779**

TÜV Rheinland Cert GmbH certifies:

Certificate Holder: **Vel Tech High Tech Dr. Rangarajan  
Dr. Sakunthala Engineering College**  
No. 60, Avadi-Valtech Road,  
Avadi, Chennai - 600 062, India.

Scope: **Providing Educational Services in Bachelor of Engineering  
Degree in Computer Science Engineering, Electrical and  
Electronics Engineering, Electronics and  
Communication Engineering, Mechanical Engineering,  
Civil Engineering and Bachelor of Technology Degree  
in Chemical Engineering, Bio Technology and  
Information Technology.  
Providing Educational Services in Master Degree in  
Business Administration, Computer Application and  
Structural Engineering.**

An audit was performed, Report No. 106779. Proof has been  
furnished that the requirements according to ISO 9001:2008  
are fulfilled.  
The due date for all future audits is 23 - 12 (dd.mm).

Validity: The certificate is valid from **2013-12-31 until 2017-01-12.**  
First Certification 2011

 2013-12-31  
DGA-ZM-58-95-00



TÜV Rheinland Cert GmbH  
Am Grauen Stein · 51105 Köln

 **TÜVRheinland®**  
Precisely Right.


www.tuv.com

## Annexure-A10 AICTE Funding

**ALL INDIA COUNCIL FOR TECHNICAL EDUCATION**  
4<sup>th</sup> Floor, East Tower, N.B.C.C. Place, Bhisham Pitamah Marg,  
Pragati Vihar, New Delhi-110003

Ref. No.: 20/AICTE/RIFD/RPS(POLICY-1)34/2013-14 July 18, 2013

**The Drawing and Disbursing Officer**  
All India Council for Technical Education  
7<sup>th</sup> Floor, Chandralok Building,  
Connaught Place, New Delhi – 110 001.



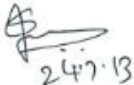
**Sub: Release of Grants under Research Promotion Scheme (RPS) Scheme during the financial year 2013-14.**

Sir,

This is to convey the sanction of the Council for payment of Rs. 1335000/- (Rupees Thirteen Lakh ThirtyFive Thousand Only) during 2013-14 under the Research Promotion Scheme (RPS) as Grant-in-aid for meeting the expenditure for implementing the Scheme in order to create & update general research capabilities, as per details given below:

1.	Name of the Beneficiary Institution (University / College / Institution)	: VEL TECH HIGH TECH DR.RANGARAJAN DR.SAKUNTHALA ENGINEERING COLLEGE NO-60,VELTECH ROAD,AVADI Tamil Nadu 600062
2.	Principal Investigator's Name & Deptt	: Dr. THIRUVENGADAM MUTHUSWAMY CIVIL ENGINEERING
3.	Grant-in-aid Sanctioned	: Rs. 1565000/-
4.	Amount to be Released during the year 2013-14 (100% of non-recurring and recurring of year 1 remaining recurring in year 2 and 3)	: Non Recurring : Rs. 1220000/- Recurring (1 <sup>st</sup> Year): Rs. 115000/- Total : Rs. 1335000/-
5.	Approved Duration	: 3 Years (Three Years)
6.	Title of the Project	: AN EXPERIMENTAL STUDY OF FLOW IN CONVERGING BOUNDARY

- The sanctioned grant-in-aid is debatable to the major "601.1 RPS" and is valid for payment during the financial year 2013-14
- The grant-in-aid of the grant shall be drawn by the Drawing and Disbursing Officer (DDO), All India Council for Technical Education, New Delhi on the Grants-in-aid bill and shall be disbursed to and credited to the account of Director/Registrar/ Principal, VEL TECH HIGH TECH DR.RANGARAJAN DR.SAKUNTHALA ENGINEERING COLLEGE, NO-60,VELTECH ROAD,AVADI Tamil Nadu 600062 through RTGS.
- The date of release of the grant by AICTE shall be taken as the date of commencement of the project. The Principal/Director/Registrar shall intimate about the receipt of the grant to AICTE. Any Expenditure incurred prior the issuance of the approval letter is not allowed to be adjusted in the grant and if the University/Institution do not take the project work within 6 months of the receipt of the grant, approval shall ipso facto lapse.




Contd...2/-

20/AICTE/RIFD/RPS(POLICY-1)34/2013-14

:: 2 ::

4. Each project sanctioned by AICTE is assigned a specific Ref. No. which is on pre-page. All correspondence address to AICTE regarding the project must quote this number along with year of sanction of the project; otherwise the correspondence may not be entertained.
5. The accounts of the grantee will be open for test check by the Council or Comptroller & Audited General of India or by any Officer designated by them.
6. The institute/University shall not charge any overheads on this project and will provide all the administrative support for completion of the project.
7. The grantee shall utilize grants on only approved items of expenditure (list enclosed). However in case of the grantee wishes to recast the project, approval of Council must be obtained for the revised item of expenditure and they will maintain proper accounts of the expenditure as per the norms/procedures of AICTE/Government of India.
8. The assets acquired wholly or substantially out of all India Council for Technical Education's grant shall not be disposed or encumbered or utilize the purpose other than those for which the Grant was given without proper sanction of the all India Council for Technical Education.
9. The grantee shall maintain an audited record of assets acquired wholly or substantially out of the grant-in-aid and a register or assets shall be maintained by the Institute in the prescribed form i.e. GFR-19.
10. Interest on the sanctioned grant-in-aid will be treated as part of the grant and shall be used for project purposes only and the same shall be mentioned in the audited statement of accounts.
11. The Annual Progress Report in the prescribed format along with Statement of Expenditure and Audited Utilization Certificate shall be submitted to AICTE not later than one month after completion of each financial year.
12. Project Completion Report (PCR) in the prescribed format along with the Audited Statement of Expenditure indicating expenditure incurred in the total duration of the project in the prescribed format, utilization in the format and GFR-19 shall be submitted to the Council.
13. The Utilization Certificate (UC) supported by Audited Statement of Expenditure to the effect that the grant has been utilized for the purpose for which it has been sanctioned shall be furnished to the All India Council for Technical Education as early as possible after completion of the project. It should contain the head-wise break up of expenditure made from the grant-in-aid provided by the Council.
14. The grantee shall follow the terms and conditions of Research Promotion Scheme (RPS) as laid down by the council from time to time.

  
24.7.13

Contd...3/-

20/AICTE/RIFD/RPS(POLICY-1)34/2 013-14

:: 3 ::

15. The Grantee shall fully implement to the official language policy of Union Government and comply with the official language Act, 1963 and official language (use of official purposes of the Union Rules, 1976 etc.)
16. The funds to the extent are available under the scheme.
17. The sanction issues in exercise of the powers delegated to the Council. It is also certified that grant-in-aid is being released in conformity with the rules and Principles of the scheme.
18. The Council does not provide permanent staff. However, Technical Project staff may be engaged only on contract basis after taking a formal approval from AICTE. The remuneration for such personnel may be fixed as per prevailing rules of the Institution.
19. It should be ensured that no RPS project in favour of the same P.I. has been sanctioned during 2011-12 to 2013-14 before utilizing this amount and the matter be brought to the notice of this Council immediately.

Yours sincerely,



(Shashikant P. Borkar)  
Advisor (RIFD)

Note: The prescribed formats and Terms & Conditions are available in the application brochure.

Copy forwarded for information and necessary action to:

1. The Director/Registrar/ Principal  
VEL TECH HIGH TECH  
DR.RANGARAJAN DR.SAKUNTHALA  
ENGINEERING COLLEGE  
NO-60,VELTECH ROAD,AVADI Tamil  
Nadu 600062
2. Dr. THIRUVENGADAM  
MUTHUSWAMY,  
VEL TECH HIGH TECH  
DR.RANGARAJAN DR.SAKUNTHALA  
ENGINEERING COLLEGE NO-  
60,VELTECH ROAD,AVADI Tamil  
Nadu 600062
3. Office of Director General of Audit  
GENERAL REVENUES,  
AGCR BUILDING  
I.P. STATE, NEW DELHI-110 002.
4. Guard File

ALL INDIA COUNCIL FOR TECHNICAL EDUCATION  
4<sup>th</sup> Floor, NBCC Place, Bhishma Pitamah Marg, Lodhi Road,  
Pragati Vihar, New Delhi-110003

Ref. No.: 20/AICTE/RIFD/RPS(POLICY-1)34/20/13-14

Name of the Principal Investigator Dr. THIRUVENGADAM MUTHUSWAMY  
Name of the Institution CIVIL ENGINEERING  
VEL TECH HIGH TECH DR.RANGARAJAN DR.SAKUNTHALA  
ENGINEERING COLLEGE  
NO-60,VELTECH ROAD,AVADI Tamil Nadu 600062  
Title of the Project AN EXPERIMENTAL STUDY OF FLOW IN CONVERGING BOUNDARY

Approved Items of Expenditure (Non-Recurring)

Sl. No.	Approved Items (As per proposal)
1	EXPERIMENTAL SETUP OF WELL MODEL WITH SUMP
2	DIGITAL PRESSURE DEVICE WITH MOTOR & PUMP (CONSUMPTION LIKE SAND, AGGREGATES & INFRASTRUCTURES ARE EXCLUDED)

Total Amount Rs. 3220000/- for Non- Recurring + Rs. 115000/- for Recurring (1/3 of total Recurring amount) i.e. Total Amount Rs. 1335000/- (Rupees Thirteen Lakh ThirtyFive Thousand Only)

  
24.7.13  
(Shashikant P. Borkar)  
Advisor (RIFD)

## Annexure- A11 SERB Project

**विज्ञान और इंजीनियरिंग अनुसंधान बोर्ड (एसइआरबी)**  
**Science & Engineering Research Board (SERB)**  
( भारत सरकार, विज्ञान और प्रौद्योगिकी विभाग का एक संवैधानिक निकाय )  
( A statutory body under Department of Science & Technology, Government of India )

सेवा में / To,

PRINCIPAL  
VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA  
ENGINEERING COLLEGE,  
60, AVADI-VEL TECH ROAD, AVADI,  
CHENNAI - 600062  
TAMILNADU

विषय : बैंक / डिमांड ड्राफ्ट को अग्रोपच के संबंध में। / Subject: Forwarding of DD/Cheque – Reg.

गर्होदय / Sir,

मुझे उपरोक्त विषय पर एसइआरबी के स्वीकृति आदेश सं. SB/FT/CS-089/2012 दिनांक 31/10/2013 का संदर्भ नृहण करने तथा बिल सं. GIA/4768 दिनांक 26/11/2013 के माध्यम से रु. 1700000/- हेतु बैंक / डिमांड ड्राफ्ट सं. 052710 दिनांक 27/11/2013 को इसके साथ भेजने का निर्देश हुआ है।

उपरोक्त इन्स्ट्रुमेंट तथा उपयोगिता/व्यय विवरण के लिए संलग्न स्वीकृति आदेश में दर्शाए गए अनुसार : एक टिक्ट सभी रबीद सीदे ही स्वीकृति प्राधिकारी के नाम से भेजी जानी चाहिए।

I am directed to refer to SERB sanction order no. SB/FT/CS-089/2012 dated 31/10/2013 on the subject cited above, and to forward herewith Cheque/Demand Draft no. 052710 dated 27/11/2013 for Rs 1700000/- (RUPEES SEVENTEEN LAKH ONLY) through Bill no. GIA/4768 dated 26/11/2013.

A stamped receipt for above instrument and Utilization/Expenditure Statements etc. should be sent directly to the Sanctioning Authority by name as mentioned in the attached sanction order.

भवदीय / Yours faithfully,  
आहरण एवं संचितरण अधिकारी / Drawing & Disbursing Officer

यह कंप्यूटर जनित संचार है तथा इसमें हस्ताक्षर की आवश्यकता नहीं है। /  
This is computer generated communication and it does not required signature.

यदि कोई त्रुटि पाई जाती है, तो कृपया संपर्क करें, आहरण एवं संचितरण अधिकारी, विज्ञान और इंजीनियरिंग अनुसंधान बोर्ड, 5 एवं 5 ए, विधाना चौराहा, लाल, बसो स्क्वायर मॉड्युल, पॉस्ट टॉल्डा ए - , कम्युनिटी सेंटर, सेक्टर-5, पॉकेट-5, वसंत कुर्ग, नई दिल्ली- 110070	Discrepancies if any, may be communicated to Drawing & Disbursing Officer, SERB, 5 & 5A, Lower Ground Floor, Vasant Square Mall, Plot No.-A, Community Centre, Sector-5, Pocket-5 Vasant Kurg, New Delhi - 110070
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NO. SB/FT/CS-089/2012  
Science and Engineering Research Board  
(SERB)

Technology Bhavan,  
New Mehrauli Road,  
New Delhi - 110016

Dated: 31.10.2013

ORDER

Subject: - Financial assistance for the research project entitled "Development of eco-friendly synthetic methods for organic compounds of commercial importance" under the guidance of Dr. Vijaykumar B., Associate Professor, Department of Chemistry, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai-600062.

The sanction of the SERB is hereby accorded to the above-mentioned project at a total cost of Rs. 2500000/- (Rupees twenty five lakh only) with break-up of Rs. 1330000/- (Rupees thirteen lakh thirty thousand only) under Capital head and Rs. 1170000/- (Rupees eleven lakh seventy thousand only) under General head for a duration of three years. The items of expenditure for which the total allocation of Rs. 2500000 /- has been approved for a period of three years, are given below:

(Amount in Rs.)

A. Non-recurring (Capital Items)

HEAD	TOTAL
Equipments: FTIR, Centrifuge, Heating mantles, Oilbath, Rotavapor, Melting point apparatus	1330000
Total - Capital	1330000

B. Recurring Items (General)

HEAD	TOTAL
Manpower: JRF-01 ( Rs 16000/-PM for I & II year & Rs 18000/-PM for III year)	600000
Consumables:	180000
Travel:	45000
Contingencies:	45000
General - A: (Manpower, Consumables, Travel, Contingencies)	870000
General - B: OVERHEADS	300000
Total ( General ) ( General-A+ General-B)	1170000
TOTAL (A+B.)	2500000

- Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and benefits to the staff employed in the project etc.
- The sanction of the SERB is also accorded to the payment of Rs. 1700000/- (Rupees seventeen lakh only) (Rs. 1330000/- (Rupees thirteen lakh thirty thousand only) under 'Grants for creation of capital assets' and Rs. 370000/- (Rupees three lakh seventy thousand only) under 'Grants-in-aid General') to The Principal, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai being the first installment of the grant for the year 2013-14 for implementation of the said research project
- Sanction of the grant is subject to the conditions as detailed in Annexure - I.
- The amount of Rs. 1700000/- (Rupees seventeen lakh only) will be drawn by the Drawing and Disbursing Officer of the SERB and will be disbursed by means of cheque/DD favouring The Principal, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai and will be sent to The Principal, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, #60, Avadi-Vel Tech Road, Avadi, Chennai: 600062 (Tamil Nadu).

12/23  
B

-2-

6. The expenditure involved is debitale to

Grant-in-aid for the year 2013-14 (Plan expenditure-**Capital**): Rs. 1330000/-  
&

Grant-in aid for the year 2013-14 (Plan expenditure-**General**): Rs. 370000/-

7. While providing operational flexibility among various subheads under head: General-A, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. The Sanction has been issued under the powers delegated to the Science and Engineering Research Board and with the concurrence of Programme Coordinator vide sanction number **SERB/F/4913/2013-14 dated 28.10.2013.**

9. The Institute will furnish to SERB, utilization certificate and audited statement of accounts pertaining to the grant immediately after the end of each financial year.

10. All purchases of equipments etc. would be as per GFR and the disposal of the same would be done with prior approval of SERB.

11. The Institute will maintain separate audited accounts for the project. If it is found expedient to keep a part or whole of the grant in a bank account earning interest, the interest earned should be reported to SERB. The interest thus earned will be treated as a credit to the Institute to be adjusted towards further installment of the grant.

12. As per Rule 211 GFRs, the accounts of the project shall be open to inspection by the sanctioning authority / audit whenever the Institute is called upon to do so.

13. As this is the first grant being released for the project, no previous UC is required.

  
(R K Jeshi)  
Scientist D

Copy forwarded for information and necessary action to: -

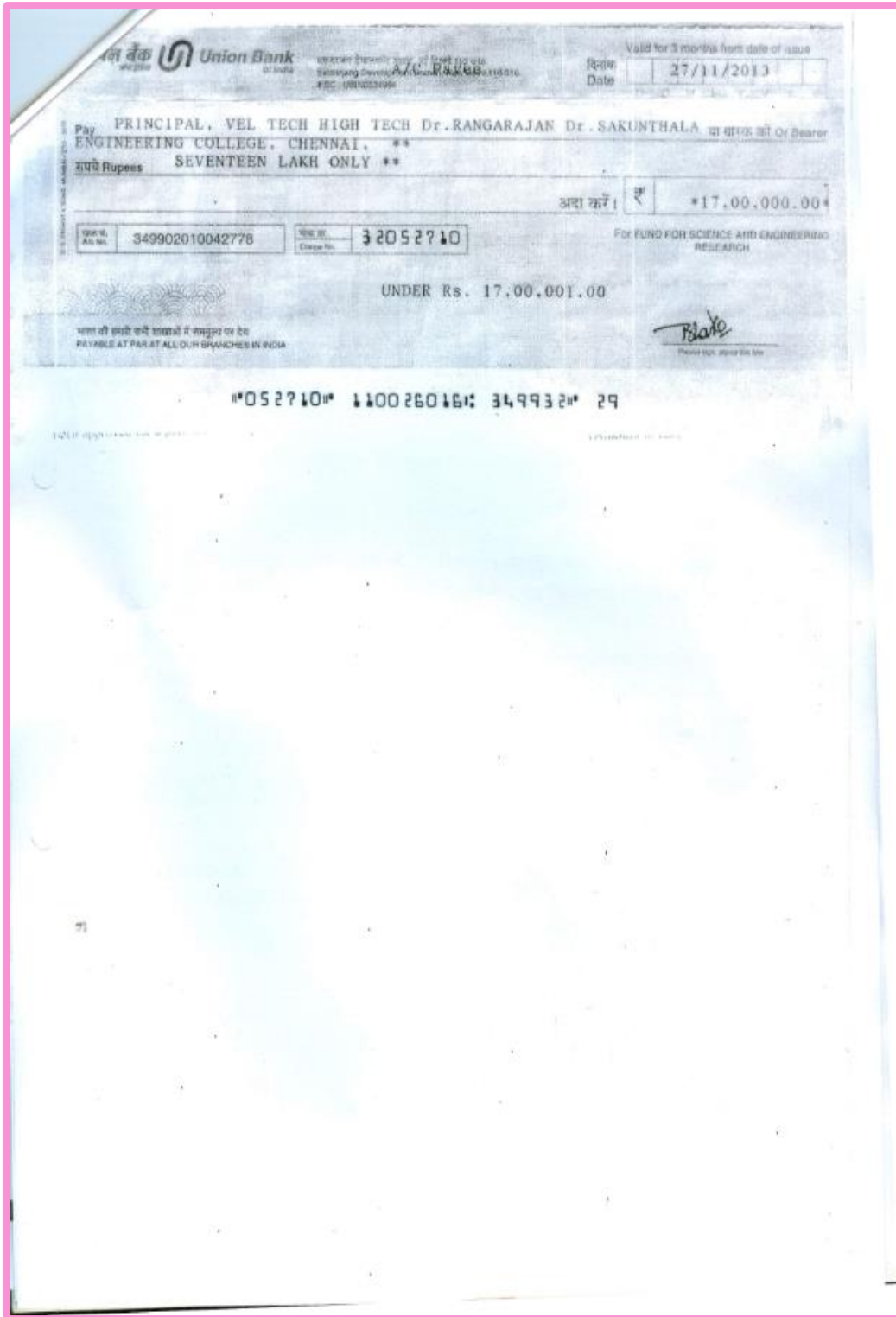
1. The pay & Accounts officer, Science & Engineering Research Board (SERB), New Delhi.
2. Copy with two spare copies of the sanction to the Drawing and Disbursing Officer, SERB, Cash Section.
3. SERB Secretariat.

4. ~~Dr. Vijaykumar B.,  
Associate Professor,  
Department of Chemistry,  
Vel Tech High Tech Dr. Rangarajan-  
Dr. Sakunthala Engineering College,  
#60, Avadi-Vel Tech Road, Avadi,  
Chennai-600062 (Tamil Nadu)~~

5. The Principal,  
Vel Tech High Tech Dr. Rangarajan-  
Dr. Sakunthala Engineering College,  
#60, Avadi-Vel Tech Road, Avadi,  
Chennai-600062 (Tamil Nadu)

6. File Copy - 2 Nos.

  
(R.K. Jeshi)  
Scientist D



### Annexure-A12 NBA Accreditation Applied for Eight Courses

The screenshot shows a web browser window displaying an email from the National Board of Accreditation (NBA). The browser tabs include 'Search results - anurekh...', 'Inbox (2,711) - principal...', 'NBA - National Board of Acc...', 'Programs :: NBA', 'Pre-Qualifier for Accreditati...', and 'e-NBA'. The address bar shows the URL: <https://enba.nbaind.org/Office/WorkflowLetter.aspx?panel=1&label=1>.

The email header includes the NBA logo and the text: "Promoting international quality standards for technical education in India". The recipient is identified as "VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA ENGINEERING COLLEGE".

The email body contains the following text:

Dear Madam/Sir,

The application **1804-04/03/2016** dated **04/03/2016** of VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA ENGINEERING COLLEGE seeking accreditation of the following levels and programme(s) as detailed below has been received by NBA .

The email interface also shows a sidebar with navigation options: Messaging, Inbox(0), Outbox, Archive, Write to NBA, Accreditation, Reference Material, Interact with NBA, and Appeal. The email content includes fields for Sent (06-04-2016 11:02:32), From (msadmmba), To (VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA ENGINEERING COLLEGE), CC (msadmmba@gmail.com), and Subject (Acknowledgement of Application 1804-04/03/2016 submitted to NBA for Accreditation). There are also buttons for Reply, Forward, Logout, Change Password, and Home.

The screenshot shows a web browser window with multiple tabs. The active tab is titled "e-NBA" and displays an email from the National Board of Accreditation (NBA). The email header includes the following details:

- Sent:** 24-06-2013 18:23:32
- From:** msadmmba
- To:** VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA ENGINEERING COLLEGE
- CC:** Accr1@nbaind.org
- Subject:** Acknowledgement of Application 331-24/06/2013 submitted to NBA for Accreditation

The email body contains the following text:

Dear Madam/Sir,  
The application **331-24/06/2013** dated **24/06/2013** of VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA ENGINEERING COLLEGE's seeking accreditation of the following levels and programmes under Format **Tier II** for Discipline **Engineering & Technology** has been received by NBA respectively.

Level	Programme
Under Graduate	Biotechnology
Under Graduate	Civil Engg.
Under Graduate	Chemical Engg.
Under Graduate	Computer Science & Engg.

Regards  
Accreditation Division

The screenshot also shows the Windows taskbar at the bottom with the system clock displaying 11:32 AM on 4/11/2016.

The screenshot shows an email client window with the following details:

- Sender:** msadmnba
- To:** VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA ENGINEERING COLLEGE
- CC:** msadmnba@gmail.com
- Subject:** Acknowledgement of Application 1804-04/03/2016 submitted to NBA for Accreditation

The email body contains the following text:

Dear Madam/Sir,

The application **1804-04/03/2016** dated **04/03/2016** of VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA ENGINEERING COLLEGE seeking accreditation of the following levels and programme(s) as detailed below has been received by NBA .

Discipline	Format	Level	Programme
Engineering & Technology	Tier II	Under Graduate	Electronics & Communication Engg.
Engineering & Technology	Tier II	Under Graduate	Electrical & Electronics Engg.
Engineering & Technology	Tier II	Under Graduate	Information Technology
Engineering & Technology	Tier II	Under Graduate	Mechanical Engg.

Regards  
Accreditation Division, NBA

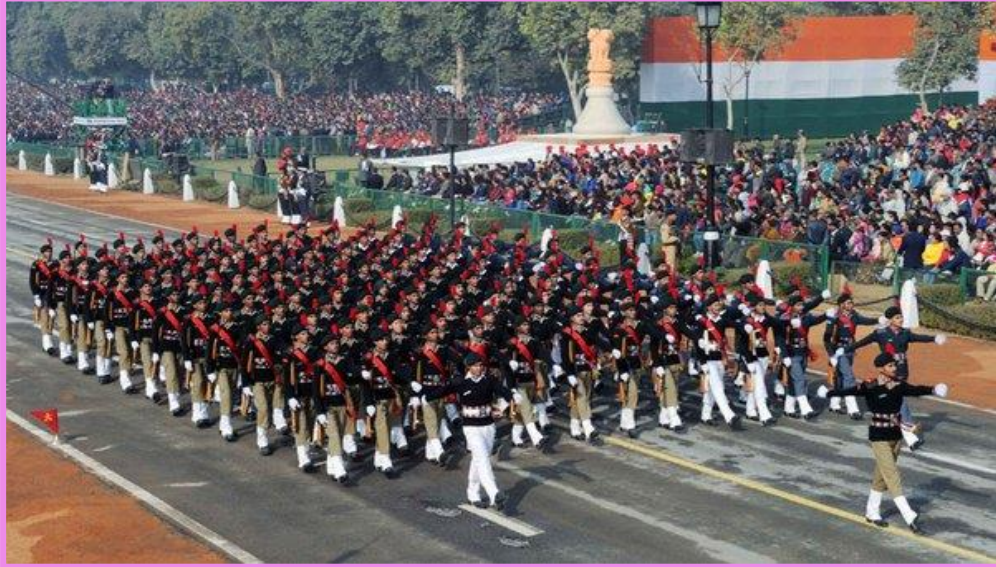
### **Annexure –A13 NCC and YRC Achievements**

#### **NCC (ACHIEVEMENTS)**

- ❖ 1.CSM.VIGNESHWARAN S. (3<sup>RD</sup> YEAR IT DEPT.) TOOK PART IN RAJPATH MARCHING CONTINGENT ON 26<sup>TH</sup> JANUARY 2016-RAJPATH (NEW DELHI) INFRONT OF PRESIDENT OF INDIA ,PRIME MINISTER OF INDIA AND France President Francois Hollande
- ❖ ALSO WON ALL INDIA SECOND PLACE IN CONTINGENT DRILL
- ❖ 2. SGT.CHANDRAKANTH Y. (3<sup>RD</sup> YEAR ECE DEPT.)
- ❖ WON GOLD MEDALS IN GROUP SONG(ALL INDIA FIRST PLACE) AND GROUP DANCE(ALL INDIA FIRST PLACE),
- ❖ PARTICIPATED IN BALLET , PRIME MINISTER’S RALLY ON 28 /01/2016,
- ❖ SGT.CHANDRAKANTH.Y WAS HONOURED BY YOUTH WELFARE AND SPORTS MINISTER-GOVERNMENT OF TAMIL NADU
- ❖ Dr S.SUNDARARAJ FOR SECURING FIRST PLACE IN GROUP SONG AND GROUP DANCE IN REPUBLIC DAY CAMP 2016.
- ❖ 3.SGT. DANTU VENKATA SAI ESHWAR. (3<sup>RD</sup> YEAR ECE DEPT.)- PRIME MINISTER’S RALLY ON 28 /01/2016
- ❖ 4.CUO.ABHAY A. SARALAY(2<sup>ND</sup> YEAR CIVIL DEPT.)- PRIME MINISTER’S RALLY ON 28 /01/2016

## RDC-2016 ACHIEVEMENTS

**CPL VIGNESHWARAN.S** TOOK PART IN RAJPATH MARCHING CONTINGENT ON 26<sup>TH</sup> JANUARY 2016-RAJPATH (NEW DELHI)



HE ALSO VISITED RASHRAPATI BHAVAN TO MEET THE PRESIDENT OF INDIA – **Mr. PRANAB MUKHERJEE**





**CPL DANTU VENKATA SAI ESHWAR** HAD GOT A CHANCE TO HAVE A DINNER WITH **DEFENCE MINISTER OF INDIA – Mr. MANOHAR PARRIKAR** AND **YEP CADETS** IN MANEKSHAW CENTRE.



HE ALSO VISITED THE HOUSE OF CHIEF OF ARMY STAFF – GENERAL DALBIR SINGH SUHAG



PARTICIPATED IN PM RALLEY WHICH TOOK PART ON 28<sup>TH</sup> JANUARY 2016



**CDT ABHAY.A.SARALAY VISITED THE HOUSE CHIEF OF ARMY STAFF-  
GENERAL DALBIR SINGH SUHAG**



PARTICIPATED IN PM RALLEY WHICH TOOK PART ON 28<sup>TH</sup> JANUARY 2016



**CPL CHANDRAKANTH.Y** VISITED THE HOUSE OF CHIEF OF AIR STAFF – AIR CHIEF MARSHAL ARUP RAHA



AND ALSO TOOK PART IN GROUP SONG AND GROUP DANCE COMPETITION AND SECURED FIRST PRIZE IN BOTH THE EVENTS.





PARTICIPATED IN PM RALLEY WHICH TOOK PART ON 28<sup>TH</sup> JANUARY 2016



**CPL.VIGNESHWARAN.S** TOOK PART IN RAJPATH MARCHING CONTINGENT ON 26<sup>TH</sup> JANUARY 2016 ON REPUBLIC DAY AND WAS HONOURED WITH RAJPATH BADGE.



**CPL.CHANDRAKANTH.Y** WAS HONOURED BY YOUTH WELFARE AND SPORTS MINISTER-GOVERNMENT OF TAMIL NADU **Dr S.SUNDARARAJ** FOR SECURING FIRST PLACE IN GROUP SONG AND GROUP DANCE IN REPUBLIC DAY CAMP 2016.



HE ALSO TOOK PART IN PM'S RALLEY ON 28<sup>TH</sup> JANUARY 2016 IN NEW DELHI  
AND WAS AWARDED WITH A BADGE AND A MEDAL.



**CPL.DANTU VENKATA SAI ESHWAR** TOOK PART IN PM'S RALLEY  
ON 28<sup>TH</sup> JANUARY 2016 IN NEW DELHI AND WAS AWARDED WITH A BADGE AND A  
MEDAL.



**CDT.ABHAY.A.SARALAY** TOOK PART IN PM'S RALLEY ON 28<sup>TH</sup> JANUARY 2016 IN NEW DELH AND WAS AWARDED WITH A BADGE AND A MEDAL.



YRC Updates and Recent Photographs







anna



Awareness Programme done in campus for greenery

YRC News letter

Annexure-A14 Laboratory Equipments details

**Laboratory**

Course	Name of the Laboratory	Lab / Major Equipments	Investment till Date
BIOTECHNOLOGY	GENETIC ENGINEERING LAB	Micro Centrifuge 2.UV Transilluminator 3.Gel Documentation System 4. PCR Machine 5.Analytical w	1995878
BIOTECHNOLOGY	MICROBIOLOGY LAB/CELL BIOLOGY LAB	1.laminar Air Flow 2.Autoclave 3.Incubator 4.Light Microscope 5.Haemocytometer 6.Electronic bal	1082010
BIOTECHNOLOGY	BIO PROCESS LAB	1.Incubator 2.Autoclave 3.Shaker 4.Laminar air flow 5.Weighing Balance 6.Microcentrifuge 7.wat	1956992
BIOTECHNOLOGY	BIOCHEMISTRY LAB/BIOORGANIC CHEMISTRY LAB	1.Electronic Balance 2.High speed Centrifuge 3.Water Bath 4.Photoelectric Colorimeter 5.UV-vis	1048114
BIOTECHNOLOGY	IMMUNOLOGY LAB	1.laminar Air Flow 2.Autoclave 3.Light Microscope 4.Phase Contrast Microscope 5.Fluorescent Micro	613794
BIOTECHNOLOGY	DOWNSTREAM PROCESSING LAB	1.laminar Air Flow 2.Autoclave 3.Light Microscope 4.Phase Contrast Microscope 5.Fluorescent Micro	532638
BIOTECHNOLOGY	CHEMICAL ENGINEERING LAB	1.Sonicator 2.Microfiltration 3.Ultrafiltration 4.Chromatographic Columns 5.UV Spectrophotometer	533422
BIOTECHNOLOGY	MOLECULAR BIOLOGY LAB	1.Micro Centrifuge 2.UV Transilluminator 3.Gel Documentation System 4.Microwave Oven 5.Weighing	1456469
BIOTECHNOLOGY	INSTRUMENTAL METHODS OF ANALYSIS LAB	1.Bio Spectrophotometer 2.Flourimeter 3.Nephloimeter 4.Chromatographic Columns 5. Weighing Balanc	588045
CHEMICAL ENGINEERING	FLUID MECHANICS LAB	Packed Bed Two Column Fluidized Bed Column Vertical Double Pipe Open Drum with Orifice and Mouth	263727
CHEMICAL ENGINEERING	ORGANIC CHEMISTRY LAB	WATER BATH, MAGNETIC STIRRER, BURETTES, HOT PLATE	293560
CHEMICAL ENGINEERING	PHYSICAL CHEMISTRY LAB	Muffle Furnace Magnetic Stirrer Water Bath Hot Plate Bunsen Burner Incinerator	369071

CHEMICAL ENGINEERING	PROCESS CONTROL LAB	Process Control Training System Apparatus Temperature Process Control Training System PC Based Flo	806105
CHEMICAL ENGINEERING	HEAT TRANSFER LAB	Almech Condenser Vertical Test Rig Apparatus Almech Jacketed Kettle Almech Open Pan Evaporator Al	495623
CHEMICAL ENGINEERING	CHEMICAL REACTION ENGINEERING LAB	ADAIBATIC REACTORS, PLUG FLOW REACTOR, RTD APPARATUS,BATCH REACTOR, SEMI BATCH REACTOR	414881
CHEMICAL ENGINEERING	MECHANICAL OPERATIONS LAB	Leaf Filter Plate and Frame Filter Press Sieve Shaker(Rotap) Sieve Shaker(Gyratory) Ball Mill Ap	544256
CHEMICAL ENGINEERING	MASS TRANSFER LAB	Simple Distillation Steam Distillation Packed Bed Distillation Bubble Cap Distillation Column Ma	766583
CHEMICAL ENGINEERING	CHEMICAL ANALYSIS LAB	SILICA CRUCIBLE, ROUND BOTTOM FLASK, WATER BATH,HOT PLATE	169164
CHEMICAL ENGINEERING	TECHNICAL ANALYSIS LAB	Copper Standard Electrode Zinc Standard Electrode Iron Standard Electrode Kjeldhal Apparatus	316759
CIVIL ENGINEERING	STRENGTH OF MATERIAL LAB	COMPUTERISED UTM MODEL:TUFC-400 IZOD/CHARPY IMPACT TESTING MACHINE SPRING TESTING MACHINE BRINELL	637354
STRUCTURAL ENGINEERING	STRUCTURAL ENGINEERING LAB	LOADING FRAME, HYDRALIC JACK, LOAD INDICATOR, DATA ACQUISITION SYSTEM, PROVING RING.( ORDERED)	2577790
CIVIL ENGINEERING	SURVEYING LABORATORY	Standard Vernier Theodolite Standard Vernier Theodolite Electronic Digital Theodolite	1244062
CIVIL ENGINEERING	SOIL MECHANICS LABORATORY	LM-17-346 RELATIVE DENSITY APPARATUS. LM-17-230. DIRECT SHEAR APPARATUS (MOTORISED) LM-17-106. LO	681912
CIVIL ENGINEERING	CAD LAB	System Ups Printer Laserprinter Plotter Server Networking Software Stadpro	1021668
CIVIL ENGINEERING	HYDRAULICS ENGINEERING LABORATORY	CLOSED CIRCUIT RECIPROCATING PUMP - 1 HP CLOSED CIRCUIT ORIFICE	1068965

		METER CLOSED CIRCUIT VENTURIM	
CIVIL ENGINEERING	HIGHWAY AND CONCRETE ENGINEERING LAB	CONCRETE MIXTURE MACHINE LABORATORY, FLOW TABLE APPARATUS, DEVAL ABRASHING TESTING , VEEBEE CONSIST	682060
CIVIL ENGINEERING	ENVIRONMENTAL LAB	BOD incubator Jar test apparatus Chlorine comparator Filtration assembly Digital Weighing Machi	746616
COMPUTER SCIENCE AND ENGINEERING	SYSTEM SOFTWARE	SOFTWARE-TURBO C/C++	892509
COMPUTER SCIENCE AND ENGINEERING	OPERATING SYSTEM LABORATORY CSE	UBUNTU/OPENSUSE/FEDORA/RED HAT/DEBIAN/MINT OS/LINUX COULD BE	366867
COMPUTER SCIENCE AND ENGINEERING	OPEN SOURCE LAB	LATEST DISTRIBUTION OF LINUX	526867
COMPUTER SCIENCE AND ENGINEERING	OOAD LAB	ARGOUML, ECLIPSE IDE, VISUAL/PARADIGM,	513004
COMPUTER SCIENCE AND ENGINEERING	OBJECT ORIENTED PROGRAMMING LAB	HIGHER/OS-WINDOWS 2000/WINDOWS XP/NT/C++	867911
COMPUTER SCIENCE AND ENGINEERING	NETWORK LABORATORY	C++ COMPILER/2SDK(FREEWARE)/LINUX/	39269
COMPUTER SCIENCE AND ENGINEERING	JAVA LAB	JUM & J2SE (FREEWARE)/MY SQL OR ANY OTHER DB	398269
COMPUTER SCIENCE AND ENGINEERING	DATA STRUCTURES LAB	TURBO C VERSION 3 OR GCC VERSION 3.3.4/WINDOWS 2000/XP/NT/OR LINUX	398269
COMPUTER SCIENCE AND ENGINEERING	DATA BASE MANAGEMENT SYSTEMS LABORATORY	VB/ C++/JAVA/BACK END: ORACLE 11G,MY SQL	565671
COMPUTER SCIENCE AND ENGINEERING	COMPUTER GRAPHICS LAB	TURBO C, /VISUAL C++ WITH OPENGL/ ANY 3D ANIMATION SOFTWARE LIKE 3DSMAX, MAYA, BLENDER.	648071

COMPUTER SCIENCE AND ENGINEERING	INTERNET PROGRAMMING LAB	AJAX./XSLT/XSL	398269
ELECTRICAL AND ELECTRONICS ENGINEERING	CONTROL SYSTEM	DC SERVOMETER, AC SERVOMETER, DC MOTOR, DC AND AC POSOTION CONTROL SYSTEM, STEPPER MOTOR CONTROL SYS	886836
ELECTRICAL AND ELECTRONICS ENGINEERING	DATA STRUCTURES /OOPS LAB EEE	SYSTEMS, PRINTERS , UPS	552186
ELECTRICAL AND ELECTRONICS ENGINEERING	ELECTRICAL CIRCUITS LAB	1)DIGITAL STORAGE OSCILLATOR 2) CRO 3)REGULATED POWER SUPPLY	263213
ELECTRICAL AND ELECTRONICS ENGINEERING	ELECTRICAL MACHINE LAB	1) 3PH RECTIFIER 2) AC DISTRIBUTION PANEL 3) DC DISTRIBUTION PANEL	2378492
ELECTRICAL AND ELECTRONICS ENGINEERING	ELECTRONICS DEVICES AND CIRCUITS LAB EEE	RPS, CRO, FG	482998
ELECTRICAL AND ELECTRONICS ENGINEERING	LINEAR DIGITAL INTEGRATED CIRCUIT EEE	INTERFACE SUCH AS A/D,D/A CONVERTER, DMA,PIC SERIAL, INTERFACE STEPPER MOTOR,CRO AND FG	203282
ELECTRICAL AND ELECTRONICS ENGINEERING	MEASUREMENTS AND INSTRUMENTATION LAB	1)BOURDON PRESSURE TRANSDUCER KIT WITH FOOT PUMP 2) MAXWELLS BRIDGE 3)CRO	273132
ELECTRICAL AND ELECTRONICS ENGINEERING	POWER ELECTRONICS LAB	1)IGBT BASED 3 PH PWM INVERTER 2) IGBT BASED 1 PH PWM INVERTER 3) CRO(20 MHZ)	697645
ELECTRICAL AND ELECTRONICS ENGINEERING	POWER SYSTEM SIMULATION LAB	SYSTEMS, LASER PRINTER MI POWER SOFTWARE	1175303
ELECTRONICS AND COMMUNICATIONS ENGINEERING	DIGITAL SIGNAL PROCESSING LAB	SYSTEM DSP PROCESSOR KIT, MAT LAB, CRO, AND FG	1864627

ELECTRONICS AND COMMUNICATIONS ENGINEERING	VLSI LAB	Spartian III Trainer with on board Devices, Traffic light controller simulation board, (In built F	1843336
ELECTRONICS AND COMMUNICATIONS ENGINEERING	COMPUTER NETWORKS LAB	Wireless LAN Trainer Kit With USB Adapter, LTS-01 LAN Training System, Data Communication Trainer	1955024
ELECTRONICS AND COMMUNICATIONS ENGINEERING	OPTICAL AND MICROWAVE LAB	Directional coupler, Pin modulator, H – plane tee, E – plane tee, Magic tee, Klystron mount, H	2489783
ELECTRONICS AND COMMUNICATIONS ENGINEERING	DIGITAL ELECTRONICS LAB	Digital IC trainer kit, Power supply, Multimeter, Projector screen, Digital projector, Digital	1305861
ELECTRONICS AND COMMUNICATIONS ENGINEERING	COMMUNICATIONS SYSTEMS LAB	AMPLITUDE MODULATION, DEMODULATION TRAINER, FREQUENCY MODULATION , PLL AND FREQUWNCY, ANALOG SIGNAL	1543841
ELECTRONICS AND COMMUNICATIONS ENGINEERING	LINEAR INTEGRATED CIRCUITS LAB	Digital IC trainer kit, Multi output power supply, DRB Dual power supply, CRO	416819
ELECTRONICS AND COMMUNICATIONS ENGINEERING	ELECTRONICS CIRCUITS LAB.	Analog multimeter, Audio output power meter, Digital LCR meter, Galvanometer, Audio oscillator,	380935
ELECTRONICS AND COMMUNICATIONS ENGINEERING	ELECTRONIC SYSTEM DESIGN LAB.	Micro 50 LC kit, Wireless modem, Process control timer, PLC trainer kit, SMPS, CRO	583404
ELECTRONICS AND COMMUNICATIONS ENGINEERING	MICROPROCESSOR AND MICRO CONTROLLER LAB ECE	Micro 51 EB LED trainer kit, 8085, 8086 , AC motor controller ,DC motor controller, Computer	1397994
First Year/Other	PHYSICS	Young's Modulus Apparatus (Scale &	2094653

	/CHEMISTRY LAB	Telescope) Lees disc apparatus(Circular Disc) Potentio Meter	
FIRST YEAR/OTHER	COMPUTER PRACTICE LAB	SYSTEMS , PRINTERS , UPS	3917952
FIRST YEAR/OTHER	COMMUNICATION SKILL LAB	systems, printer, ups	4314692
FIRST YEAR/OTHER	ENGINEERING PRACTICE LAB	RPS,CRO,AUDIO OSCILLATOR, VARIOUSMETERS, WELDING, LATHE, CARPENDRY SET UP	1058810
INFORMATION TECHNOLOGY	SERVICE ORIENTED ARCHITECTURE	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	251103
INFORMATION TECHNOLOGY	DATABASE MANAGEMENT SYSTEMS LABORATORY	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	325046
INFORMATION TECHNOLOGY	WEB TECHNOLOGIES	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	251103
INFORMATION TECHNOLOGY	JAVA PROGRAMMING LABORATORY	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	251103
INFORMATION TECHNOLOGY	OPERATING SYSTEM LABORATORY	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	251103
INFORMATION TECHNOLOGY	DATA STRUCTURES AND ALGORITHM LABORATORY	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	251103
INFORMATION TECHNOLOGY	OBJECT ORIENTED PROGRAMMING	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	319743
INFORMATION TECHNOLOGY	OBJECT ORIENTED AND DESIGN LABORATORY	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	693549
INFORMATION TECHNOLOGY	NETWORK LAB	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	251103
INFORMATION TECHNOLOGY	COMPUTER GRAPHICS LABORATORY	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	362116
INFORMATION TECHNOLOGY	MICROPROCESSOR LAB & DIGITAL COMMUNICATION LAB	interfacing kits, 8086,8251,8272,etc, AM KIT, FM KIT ETC.,	1464371
INFORMATION TECHNOLOGY	SYSTEM SOFTWARE LABORATORY	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	287160



MASTERS IN BUSINESS ADMINISTRATION	BUSINESS APPLICATION SOFTWARE	SYSTEMS, PRINTERS, UPS	2448510
MASTERS IN COMPUTER APPLICATIONS	MICROPROCESSOR LAB / CASE TOOLS LAB	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	2219677
MASTERS IN COMPUTER APPLICATIONS	COMPUTER GRAPHICS LAB, NETWORKING LAB, VISUAL PROGRAMMING LAB, WEB PROGRAMMING LAB	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	2018864
MASTERS IN COMPUTER APPLICATIONS	SYSTEM SOFTWARE, DBMS, MIDDLEWARE LAB	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	1052689
MASTERS IN COMPUTER APPLICATIONS	SOFTWARE DEVELOPMENT, ALGORITHM LAB, AND OBJECT ORIENTED PROGRAMMING LAB	HP PROLIANT ML/1350 3G SERVER, UPS(230V-20KVA)	1002489
MECHANICAL ENGINEERING	THERMAL ENGINEERING LAB	I.C ENGINE-2 STROKE AND 4 STROKE MODEL, RED WOUND VISCOMETER, FLASH AND FIRE POINT	1991131
MECHANICAL ENGINEERING	THERMAL ENGG LAB-2	AIR CONDITIONING TEST RIG, REFRIGERATION TEST RIG, SINGLE/2 STAGE RECIPROCATING COMPRESSOR	842131
MECHANICAL ENGINEERING	STRENGTH OF MATERIALS	UTM, ROCKWELL, BRINELL, TORSION, TESTING, IMPACT, SPRING TESTING	588454
MECHANICAL ENGINEERING	METROLOGY AND MEASUREMENT	AUTOCOLLIMATOR, FLOATING CARRIAGE MICROMETER, VIBRATION MEASURING SETUP, SLIP GAUGE SET, TEMPERATURE	677068
MECHANICAL ENGINEERING	MECHTRONICS LAB	SYSTEMS WITH LAB VIEW, HYDRAULICS TRAINER KIT, PNEUMATIC TRAINER KIT, DATA LOGGING SYSTEM, (OUREDRED)	2180992
MECHANICAL ENGINEERING	MANUFACTURING TECHNOLOGY LABORATORY - I/II	Vertical Milling Machine Horizontal Milling Machine Radial Drilling Machine PLANNER, LATHE MACHIN	4203261

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MECHANICAL ENGINEERING	FLUID MECHANICS LAB MECH	Aluminium Flange Pattern Aluminium Pulley Pattern Aluminium Gear Pattern Hand Injection Moulding	99358 5
MECHANICAL ENGINEERING	DYNAMICS LAB	KINEMATIC MODELS, VIBRATION TEST FACILITIES APPARATUR, VIBRATING TABLE	72013 8
MECHANICAL ENGINEERING	CAD/CAM LABORATORY	System Ups Printer Laserprinter Plotter Server CAM Machine (ANSI SOFTWARE ORDERED)	53597 99