

Vel Tech Multi Tech

Dr.Rangarajan Dr.Sakunthala Engineering College



Annual Quality Assurance Report (AQAR)



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद्

विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

The Annual Quality Assurance Report (AQAR) of the IQAC

All NAAC accredited institutions will submit an annual self-reviewed progress report to NAAC, through its IQAC. The report is to detail the tangible results achieved in key areas, specifically identified by the institutional IQAC at the beginning of the academic year. The AQAR will detail the results of the perspective plan worked out by the IQAC. *(Note: The AQAR period would be the Academic Year. For example, July 1, 2012 to June 30, 2013)*

Part – A

1. Details of the Institution

1.1 Name of the Institution

Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College

1.2 Address Line 1

#42, Avadi-Vel Tech Road

Address Line 2

Vel Nagar, Avadi

City/Town

Chennai

State

Tamilnadu

Pin Code

600062

Institution e-mail address

emailto@veltechmultitech.org

Contact Nos.

26841061

Name of the Head of the Institution:

Dr.V.Rajamani

Tel. No. with STD Code:

044 -26841061

Mobile:

9789037652

Name of the IQAC Co-ordinator:

Mr. K. A. Harish

Mobile:

9940380852

IQAC e-mail address:

iqac@veltechmultitech.org

1.3 NAAC Track ID (For ex. MHCOGN 18879)

TNCOGN 25534

1.4 NAAC Executive Committee No. & Date:

NAAC/WH/Cert-A&A/EC(13th SC)/12.1/2016

(For Example EC/32/A&A/143 dated 3-5-2004.

This EC no. is available in the right corner- bottom of your institution's Accreditation Certificate)

1.5 Website address:

www.veltechmultitech.org

Web-link of the AQAR:

<http://www.veltechmultitech.org/aqar2017-18/>

1.6 Accreditation Details

Sl. No.	Cycle	Grade	CGPA	Year of Accreditation	Validity Period
1	1 st Cycle	A	3.49	2016	5 Years
2	2 nd Cycle				
3	3 rd Cycle				
4	4 th Cycle				

1.7 Date of Establishment of IQAC :

DD/MM/YYYY

21.03.2016

1.8 AQAR for the year (for example 2010-11)

2018-2019

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC ((for example AQAR 2010-11 submitted to NAAC on 12-10-2011)

- i. AQAR 2017-2018 (15/02/2018)
- ii. AQAR 2016-2017 (11/03/2017)
- iii. AQAR _____ (DD/MM/YYYY)
- iv. AQAR _____ (DD/MM/YYYY)

1.10 Institutional Status

University State Central Deemed Private

Affiliated College Yes No

Constituent College Yes No

Autonomous college of UGC Yes No

Regulatory Agency approved Institution Yes No

(eg. AICTE, BCI, MCI, PCI, NCI)

Type of Institution Co-education Men Women

Urban Rural Tribal

Financial Status Grant-in-aid UGC 2(f) UGC 12B

Grant-in-aid + Self Financing Totally Self-financing

1.11 Type of Faculty/Programme

Arts Science Commerce Law PEI (Phys Edu)

TEI (Edu) Engineering Health Science Management

Others (Specify)

1.12 Name of the Affiliating University (*for the Colleges*)

Anna University, Chennai

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

Autonomy by State/Central Govt. / University

University with Potential for Excellence

UGC-CPE

DST Star Scheme

UGC-CE

UGC-Special Assistance Programme

DST-FIST

UGC-Innovative PG programmes

Any other (*Specify*)

UGC-COP Programmes

2. IQAC Composition and Activities

2.1 No. of Teachers

8

2.2 No. of Administrative/Technical staff

2

2.3 No. of students

2

2.4 No. of Management representatives

2

2.5 No. of Alumni

2

2.6 No. of any other stakeholder and
community representatives

1

2.7 No. of Employers/ Industrialists

1

2.8 No. of other External Experts

1

2.9 Total No. of members

19

2.10 No. of IQAC meetings held

3 Meetings held in this academic year

2.11 No. of meetings with various stakeholders:

No.

3

Faculty

1

Non-Teaching Staff

1

1

Alumni

Others

2.12 Has IQAC received any funding from UGC during the year? Yes

No

If yes, mention the amount

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2.13 Seminars and Conferences (only quality related)

(i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

Total Nos.

2

International

National

State

Institution Level

(ii) Themes

- ✓ Quality improvement by research based education
- ✓ Quality Improvement along with Self Development and soft skill development

2.14 Significant Activities and contributions made by IQAC

S.No	Description	Meeting Dates
1	IQAC Meeting	2 per Semester for Academic Process
2	Internal Audit to all Departments	29.11.18 to 30.11.18
3	Quality improvement through Innovative in Teaching & Learning Process (Seminar)	12.09.2018
4	Quality Improvement along with Self Development for Non Teaching Faculty	01.03.18
5	Internal Audit Report Submission	22.12.18
6	Academic Review Meeting(ARM)	17.12.18 & 18.12.18

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality

Enhancement and the outcome achieved by the end of the year *

Major Function	Proposed Action Plan	Target/Time frame	Responsibility
Development and application of quality benchmarks/parameters for various academic and administrative activities of the institution	Formulation of Quality Objectives, Preparation / up-gradation of Quality Assurance Manual for the institute, Coordinating with the departments for National and International Accreditation	Continuous	IQAC
Facilitating the creation of a learner-centric environment conducive to quality education and faculty maturation to adopt the required knowledge and technology for participatory teaching and learning process	Arranging for interactive sessions with the students and staff and also with other stakeholders for betterment of the TLP	Every semester	Program Coordinators
Arrangement for feedback response from students, parents and other stakeholders on quality-related institutional processes	Preparing a review report on the feedback received from the stakeholders for continuous improvement	Continuous	Program Coordinators
Dissemination of information on various quality parameters of higher education	Sending periodical reports on quality parameters to the concerned stakeholders	Continuous	IQAC
Organization of inter and intra institutional workshops, seminars on quality related themes and promotion of quality circles	Conducting program for Teaching and Non Teaching Faculty	Every semester	IQAC
Documentation of the various programmes/activities leading to quality improvement	Consolidation of the achievement of objectives Conduct of IQAC meeting Conduct of Management Updation of Quality Assurance Manual Review meeting	Continuous	IQAC
Development of Quality Culture in the institution	Conduct of Quality Improvement Program for Non-teaching staff	Continuous	All
Preparation of the Annual Quality Assurance Report	Preparing and Sending AQAR periodically to NAAC	Annual	IQAC

(AQAR) as per guidelines and parameters of NAAC, to be submitted to NAAC.			
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2.16 Whether the AQAR was placed in statutory body

Management

Syndicate

Any other body

Governing Council

Provide the details of the action taken

36th Governing Council Meeting Conducted on 24.12.2018.

HIGHLIGHTS OF THE INSTITUTION

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- **NBA** Accredited the Departments of BME, EEE, IT & MECH for a period of 3 years and Departments of CSE & ECE for a period of 5 years.
- **NIRF India Ranking** – Stands amongst the Top 200 Institutions (Band 150-200) in the Nation consecutively for 2 Times in a Row (2018 & 2017).
- **NAAC** Accredited with ‘A’ grade and No.1 amongst Anna University affiliated colleges in Tamil Nadu with an impressive score of 3.49 / 4.0.
- **Ranked 19th** amongst 497 Colleges of Anna University in the Odd semester results of 2017-18
- **AICTE CII Award – 2015** – Best Industry Linked Emerging Engineering Institute in India 2014 – Best Industry Linked Technical Institutes and was ranked first for Computer / IT Allied Engineering in the AICTE.
- Vel Tech Multi Tech has won the title TWICE in a row for the outstanding performance in catering to the needs of the Industry, Linking its academic curriculum and for the best innovative practices in collaboration with the industry.
- **UGC 2F & 12B Awarded Institution.**
- **PRESTIGIOUS DST – FIST Sponsored Institution.**
- **SIRO Recognized Institution.**
- **Unnat Bharat Abhiyan 2018** – Vel Tech Multi Tech stands amongst the Top 15 Institution in the Nation.
- **Research Centres - Approved by Anna University, Chennai (ECE, EEE, Physics & Chemistry)**

- **Research Fund of Rs. 123 Lakhs, Funded research projects from Government funding agencies to the fund of 125 lakhs.**
- **200+ Patents Filed, 36 Patents Published and 88 patents for Review & 4 patents granted**
- **1000+ Scopus Publications and more than 2000+ Publications in Peer Review Indexed Journals**
- **80% Placement record consecutively for 3 years with highest salary of 8 Lakhs/annum from few Dream offer companies like Amazon, Musigma, Byjus, Karr Technologies Ltd, Yamaha etc.,**
- **Permanent Affiliation - Departments of BME, CSE, ECE, EEE, IT, Mechanical & M.E.CSE are permanently affiliated.**
- **An ISO 9001:2015 Certified Institution.**
- **CSI Accredited Institution - Best Accredited Student Branch Award, Longest Continuous SBC Award & Highest Committed Accredited**
- **Student Branch Activist Award from CSI for the 5th time in a row (since 2013 onwards).**
- **IETE – ISF FORUM BEST CENTRE AWARD from The Institution of Electronics & Telecommunication Engineers (IETE).**
- **ISTE Best Student Award 2013 – Won by the Institution in the year 2014-15**
- **Life Time Membership with Oracle Academy, EMC2 Academic Alliance.**
- **Approved Cambridge ESOL Examination Center.**
- **Entrepreneurship Development Institute approved through CED, Anna University.**
- **Motorola FAER Scholar Award**
- **TAFE Innovista Awards – Best student Innovative Project Award in the year 2017**
- **Vidya Ratna Award Awarded to the Chairman & Vice Chairman by Akineni Foundation of USA for outstanding achievements in the field of Education.**

- **The Engineers Educators Award** – Awarded to the Institution by the University of Bradford UK, Robert Gordon University Aberdeen & Education.
- **Life Time Achievement Award** – Awarded to the Institution by National Cyber Security Standards.
- **ICTACT Student Innovator Award 2014** – Won by the Institution in the year 2014, 2015 & 2016
- **CII Innovator Award 2014** – Won by the Institution in the year 2014-15
- Fortune 10 Colleges Award by **NC4S 2013**.
- British Council awards Vel Tech Multi Tech as the **most prestigious client** in serving students English proficiency

Vel Tech City of Education set up in 1990 by Founder couple Dr.R.Rangarajan & Dr.Sagunthala Rangarajan, has a current students strength of 18000 houses a deemed university, three Engineering colleges affiliated to Anna University, four business schools, nursing college, polytechnic college and schools.

Veltech Multitech Dr. Rangarajan Dr.Sagunthala Engineering College popularly known as **Vel Tech Multi Tech** was established in 1999 with the vision to provide right environment for technology transformation to the young minds. The campus is Extended over an area of 35 acres of lush greenery campus and the Institute is imaginatively laid-out with picturesque landscape. The instructional buildings include departments, a central library, common amenities and student's hostels with the walking distance from Institute. The sprawling campus with state of the art laboratories cultivates good character and ethics.

Infrastructure:

The institute distinguishes itself from other institutes due to its holistic approach and unique foresighted planning in providing technical and professional education with state-of-the-art technology. The main objective of the institute is to generate a horde of highly creative professionals, who can contribute not only to the Human Resource Development but also to Nation building exercise. Vel Tech Multi Tech is supported by eminent Industry experts, Corporate, Scientists, Academicians and Management consultants for combining theory with practice. All round personal growth of the students and the development of their skills are the key objectives of Vel Tech Multi Tech. We groom students to become effective men and women paving the way to immediate employment.

Courses Offered:

The institute offers Seven Undergraduate courses of BE in Electrical and Electronics Engineering, Electronics and Communication Engineering, Civil Engineering, Mechanical Engineering, Computer Science and Engineering, Bio medical Engineering and BTech course in Information Technology. In addition Post graduate courses of ME in Computer Science and Engineering, Embedded System Technologies, VLSI.

R&D Activities Research is the part and partial of the regular teaching learning activities in Vel Tech. More than 20 Million INR is received as R&D grant through various government funding agencies like DST , ICMR, CPRI, SERB, TNSCST, INSA, FAER etc., and private industries such as Hundai, IBM, K-Lites etc., for various research projects. Anna University approves research centers for the department of Electrical & Electronics Engineering, Basic sciences like Chemistry, Physics. To foster the growth of research Vel Tech has created a research Centre within its campus. In addition to the regular equipment as prescribed by AICTE and Anna University, the research oriented equipment like SCUBA, Cold Centrifuge (-4⁰C) and Rotary evaporator, Ansys, ProE, Stadpro, Autocad, Macromedia, Matlab Pro, PSCAD and MIPOWER ver. 6 software for power system simulation, Logic analyzer for Protocol & signal analysis, RIDE software for the development of firmware are made available and is regularly used for teaching, learning, Projets and research purposes.

Placement and Training The placement cell is very vibrant and the Vel Tech is accredited by TCS, Wipro and other Core, IT, IT enabled Industries. There has been more than 300 regular recruiters with exclusive Interview Halls and Group Discussion Halls for recruitments for on campus placements. In order to make the students industry ready, arranging lectures for placement guidance and Pre placement internships are regularly scheduled.

Industry – Academy Interactions MoU with around 57 Public sector/Research Institutes, 57 International Organizations, and 42 MNCs totaling 156 active MoUs to promote collaborative research, student and faculty exchange programs.

Eminent Professors and Dynamic Faculty Highly qualified, well-experienced and Dynamic team of Faculty members imparting knowledge to the students. Nearly 20% of the Faculty members are Doctorates with varies disciplines, around 7% did Post Doctoral Fellowships, rest of the faculty members are pursuing their PhDs. Professors recorded their expertise through Research Projects, Publications and Patents to their credit.

Part – B

Criterion – I

1. Curricular Aspects

1.1 Details about Academic Programmes

Level of the Programme	Number of existing Programmes	Number of programmes added during the year	Number of self-financing programmes	Number of value added / Career Oriented programmes
PhD	-	-	-	-
PG	5	-	-	-
UG	7	-	-	-
PG Diploma	-	-	-	-
Advanced Diploma	-	-	-	-
Diploma	-	-	-	-
Certificate	-	-	-	-
Others	-	-	-	-
Total	12	-	-	-
Interdisciplinary	-	-	-	-
Innovative	-	-	-	-

1.2 (i) Flexibility of the Curriculum: **CBCS/Core/Elective option / Open options**

(ii) Pattern of programmes:

Pattern	Number of programmes
Semester	All the 12 Programmes
Trimester	---
Annual	---

Under Graduate Programmes (4 Year)	Post Graduate Programmes (2Year)
B.E – Bio Medical Engineering	M.E - Computer Science and Engineering
B.E –Civil Engineering	M.E - Computer Science and Engineering Specialized with Networks
B.E - Computer Science and Engineering	M.E - VLSI Design
B.E - Electronics and Communications Engineering	M.E – Embedded System
B.E - Electrical and Electronics Engineering	M.Tech - Information Technology
B.E - Mechanical Engineering	

1.3 Feedback from stakeholders* Alumni Parents Employers Students
(On all aspects)

Mode of feedback : Online Manual Co-operating schools (for PEI)

**Refer an analysis of the feedback in the Annexure II*

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects.

VelTech Multi Tech follows Anna University prescribed Curriculum for the Regulations R 2013 was framed by Anna University and was followed from 2013 onwards. The new Curriculum (Regulations R2013) was implemented in the academic year 2013-2014 onwards.

Elective Course:

An elective course chosen by a student of any discipline, with an intention to seek exposure is called an open elective. Open elective courses are offered by the main discipline of study or by some other discipline of study. Courses in this category aim at enhancing the professional competency of students and increasing their employment prospects. This category includes (i) Socially relevant courses which meet the local, regional and the national needs (ii) Courses in emerging areas (iii) Courses which impart values and also sensitize the students to environmental, ethical, social, regional and national issues. Open Elective Courses provided in the curriculum facilitate Lateral mobility across the programme and courses.

The following table shows the number of open electives offered by each department in the UG & PG curriculum

No. of Open Elective Courses offered in the academic Year 2016-17										
S.NO	DEPT	I Sem	II Sem	III Sem	IV Sem	V Sem	VI Sem	VII Sem	VIII Sem	TOTAL
1	BME	-	-	-	-	-	2	2	3	7
2	CIVIL	-	-	-	-	-	2	4	3	9
3	CSE	-	-	-	-	-	1	2	2	5
4	ECE	-	-	-	-	-	1	3	2	6
5	EEE	-	-	-	-	-	1	3	2	6
6	MECH	-	-	-	-	-	2	4	4	10

7	IT	-	-	-	-	-	2	2	4	8
8	M.E(CSE)	2	2	3	-	-	-	-	-	7
9	M.E(NW)	2	2	3	-	-	-	-	-	7
10	M.E(VLSI)	2	3	3	-	-	-	-	-	8
11	M.E(EMB)	1	2	3	-	-	-	-	-	6
12	M.TECH(IT)	-	2	2	-	-	-	-	-	4

The following table shows the open electives included in the curriculum of UG & PG programs..

List of Elective Courses

BIO.MEDICAL		
SL.NO	CODE	COURSE TITLE
1	BM6001	Biofluids and Dynamics
2	BM6002	Biometric Systems
3	BM6003	Virtual Reality
4	BM6004	Computer Organisation
5	MD6702	Physiological Modeling
6	BM6005	Bio Informatics
7	GE6757	Total Quality Management
8	MD6010	Telehealth Technology
9	BM6006	Nano Electronics
10	EC6703	Embedded and Real time Systems
11	CS6551	Computer Networks
12	EC6601	VLSI Design
13	BM6007	Internet and Java Programming
14	BM6008	Neural Engineering
15	BM6009	Bio MEMS
16	BM6010	Assist Devices
17	CS6003	Ad hoc and Sensor Networks
18	MD6008	Fiber Optics and Lasers in Medicine
19	BM6011	Computer Hardware and Interfacing
20	CS6012	Soft Computing
21	GE6075	Professional Ethics in Engineering
22	MD6007	Body Area Networks
23	ME6002	Refrigeration and Air Conditioning
24	EC6007	Speech Processing
25	GE6078	Intellectual Property Rights
26	MF6009	Rapid Prototyping
27	BM6012	Wearable Systems

CIVIL		
1	CE6001	Hydrology
2	CE6002	Concrete Technology
3	CE6003	Remote Sensing Techniques and GIS
4	CE6004	Architecture
5	GE6075	Professional Ethics in Engineering
6	CE6005	Construction Planning and Scheduling
7	CE6006	Traffic Engineering and Management
8	CE6007	Housing Planning and Management
9	CE6008	Groundwater Engineering
10	CE6009	Water Resources Systems Analysis
11	CE6010	Pavement Engineering
12	EN6801	Environmental Impact Assessment
13	EN6704	Industrial Waste Management
14	CE6011	Air Pollution Management
15	EN6501	Municipal Solid Waste Management
16	CE6012	Ground Improvement Techniques
17	CE6013	Bridge Structures
18	CE6014	Storage Structures
19	CE6015	Tall Buildings
20	CE6016	Prefabricated Structures
21	CE6017	Experimental Analysis of Stress
22	GE6757	Total Quality Management
23	CE6018	Computer Aided Design of Structures
24	CE6019	Industrial Structures
25	CE6020	Finite Element Techniques
26	CE6021	Repair and Rehabilitation of Structures
27	CE6022	Earthquake Geotechnical Engineering

CSE		
1	CS6001	C# and .Net programming
2	GE6757	Total Quality Management
3	IT6702	Data Warehousing and Data Mining
4	CS6002	Network Analysis and Management
5	IT6004	Software Testing
6	CS6003	Ad hoc and Sensor Networks
7	CS6004	Cyber Forensics
8	CS6005	Advanced Database Systems
9	BM6005	Bio Informatics
10	IT6801	Service Oriented Architecture
11	IT6005	Digital Image Processing
12	EC6703	Embedded and Real Time Systems
13	CS6006	Game Programming
14	CS6007	Information Retrieval

15	IT6006	Data Analytics
16	CS6008	Human Computer Interaction
17	CS6009	Nano Computing
18	IT6011	Knowledge Management
19	CS6010	Social Network Analysis
20	MG6088	Software Project Management
21	GE6075	Professional Ethics in Engineering
22	CS6011	Natural Language Processing
23	CS6012	Soft Computing

ECE		
1	EC6001	Medical Electronics
2	EC6002	Advanced Digital Signal Processing
3	CS6401	Operating Systems
4	EC6003	Robotics and Automation
5	EC6004	Satellite Communication
6	EC6005	Electronic Testing
7	EC6006	Avionics
8	CS6012	Soft Computing
9	IT6005	Digital Image Processing
10	EC6007	Speech Processing
11	EC6008	Web Technology
12	EC6009	Advanced Computer Architecture
13	EC6010	Electronics Packaging
14	EC6011	Electro Magnetic Interference and Compatibility
15	EC6012	CMOS Analog IC Design
16	EC6013	Advanced Microprocessors and Microcontrollers
17	EC6014	Cognitive Radio
18	EC6015	Radar and Navigational Aids
19	EC6016	Opto Electronic Devices
20	EC6017	RF System Design
21	CS6003	Ad hoc and Sensors Networks
22	GE6082	Indian Constitution and Society
23	EC6018	Multimedia Compression and Communication
24	GE6075	Professional Ethics in Engineering
25	EC6019	Data Converters
26	CS6701	Cryptography and Network Security
27	GE6757	Total Quality Management
28	MG6071	Entrepreneurship Development
29	MG6088	Software Project Management

EEE		
1	EE6001	Visual Languages and Applications
2	IC6601	Advanced Control System
3	EE6002	Power System Transients

4	EE6003	Optimisation Techniques
5	EI6703	Fibre Optics and Laser Instruments
6	EI6704	Biomedical Instrumentation
7	EE6004	Flexible AC Transmission Systems
8	EE6005	Power Quality
9	EE6006	Applied Soft Computing
10	GE6081	Fundamentals of Nanoscience
11	IC6002	System Identification and Adaptive Control
12	EE6007	Micro Electro Mechanical Systems
13	EE6008	Microcontroller Based System Design
14	EE6009	Power Electronics for Renewable Energy Systems
15	EE6010	High Voltage Direct Current Transmission
16	EE6011	Power System Dynamics
17	IC6003	Principles of Robotics
18	GE6083	Disaster Management
19	GE6075	Professional Ethics in Engineering
20	GE6757	Total Quality Management
21	EC6002	Advanced Digital Signal Processing
22	EE6012	Computer Aided Design of Electrical Apparatus
23	EC6601	VLSI Design
24	GE6084	Human Rights

MECHANICAL		
1	MG6072	Marketing Management
2	ME6001	Quality Control and Reliability Engineering
3	ME6002	Refrigeration and Air conditioning
4	ME6003	Renewable Sources of Energy
5	ME6004	Unconventional Machining Processes
6	ME6005	Process Planning and Cost Estimation
7	ME6006	Design of Jigs, Fixtures and Press Tools
8	ME6007	Composite Materials and Mechanics
9	ME6008	Welding Technology
10	ME6009	Energy Conservation and Management
11	ME6010	Robotics
12	GE6081	Fundamentals of Nanoscience
13	ME6011	Thermal Turbo Machines
14	ME6012	Maintenance Engineering
15	EE6007	Micro Electro Mechanical Systems
16	IE6605	Production Planning and Control
17	MG6071	Entrepreneurship Development
18	ME6013	Design of Pressure Vessels and Piping
19	ME6014	Computational Fluid Dynamics
20	ME6015	Operations Research
21	ME6016	Advanced I.C. Engines
22	ME6017	Design of Heat Exchangers

23	ME6018	Additive Manufacturing
24	ME6019	Non Destructive Testing and Materials
25	ME6020	Vibration and Noise Control

IT		
1	IT6001	Advanced Database Technology
2	IT6002	Information Theory and Coding Techniques
3	CS6001	C# and .Net Programming
4	GE6757	Total Quality Management
5	CS6012	Soft Computing
6	IT6003	Multimedia Compression Techniques
7	IT6004	Software Testing
8	IT6005	Digital Image Processing
9	CS6003	Ad hoc and Sensor Networks
10	IT6006	Data Analytics
11	IT6007	Free and Open Source Software
12	IT6008	Network Programming and Management
13	GE6075	Professional Ethics in Engineering
14	CS6503	Theory of Computation
15	IT6009	Web Engineering
16	BM6005	Bio Informatics
17	CS6004	Cyber Forensics
18	CS6702	Graph Theory and Applications
19	CS6010	Social Network Analysis
20	IT6010	Business Intelligence
21	IT6011	Knowledge Management
22	IT6012	TCP/ IP Design and Implementation
23	CS6008	Human Computer Interaction
24	IT6013	Software Quality Assurance
25	MG6088	Software Project Management

M.E(CSE)		
1	SE7103	Formal models of software systems
2	CP7001	Performance Evaluation of Computer Systems
3	CP7002	Probabilistic Reasoning Systems
4	CP7003	Data Analysis and Business Intelligence
5	CP7004	Image Processing and Analysis
6	NE7001	Sensing Techniques and Sensors
7	CP7005	Randomized Algorithms
8	NE7002	Mobile and Pervasive Computing
9	CP7006	Parallel Programming Paradigms
10	CP7007	Software Requirements Engineering
11	CP7008	Speech Processing and Synthesis
12	CP7009	Machine Learning Techniques
13	CP7010	Concurrency Models

14	CP7011	Real Time Systems
15	CP7012	Computer Vision
16	NE7202	Network and Information Security
17	CP7013	Design and Analysis of Parallel Algorithms
18	CP7014	Software Architectures
19	CP7015	Model Checking and Program Verification
20	CP7016	Embedded Software Development
21	IF7202	Cloud Computing
22	CP7017	Data Visualization Techniques
23	NE7005	Protocols and Architecture for Wireless Sensor Networks
24	CP7018	Language Technologies
25	NE7012	Social Network Analysis
26	CP7019	Managing Big Data
27	NE7011	Mobile Application Development
28	CP7020	Bio-inspired Computing
29	CP7021	Medical Image Processing
30	CP7022	Software Design
31	CP7023	Reconfigurable Computing
32	IF7013	Energy Aware Computing
33	CP7024	Information Retrieval Techniques
34	CP7025	Data Mining Techniques
35	IF7002	Bio Informatics
36	CP7026	Software Quality Assurance
37	CP7027	Multi Objective Optimization Techniques
38	CP7028	Enterprise Application Integration
39	CP7029	Information Storage Management
40	CP7030	Robotics
41	CP7031	Compiler Optimization Techniques

M.E(EMB)		
1	ET7001	Digital Instrumentation
2	ET7002	Real Time Operating Systems
3	ET7016	Parallel Processing Architecture
4	ET7003	Design of Embedded Control Systems
5	ET7004	Programming with VHDL
6	ET7005	Adhoc Networks
7	ET7006	Advanced Digital Signal Processing
8	CL7204	Soft Computing Techniques
9	ET7007	RISC Processor Architecture and Programming
10	ET7008	Advanced Embedded Systems
11	ET7009	Pervasive Devices and Technology
12	ET7010	Cryptography and Network Security
13	ET7011	Smart Meter and Smart Grid Communication
14	ET7012	Computer in Networking and Digital Control

15	ET7013	Distributed Embedded Computing
16	CL7004	Robotics and Control
17	ET7014	Application of MEMS Technology
18	ET7015	Digital Image Processing and Applications

M.TECH(IT)		
1	IF7001	Software Metrics and Reliability
2	NE7007	Network Management
3	IF7002	Bio Informatics
4	MP7001	XML and Web Services
5	CP7028	Enterprise Application Integration
6	IF7003	Video Analytics
7	IF7004	Software Project Management
8	NE7002	Mobile and Pervasive Computing
9	CP7203	Principles of Programming Languages
10	IF7005	Multimedia Technologies
11	IF7006	Automata Theory and Compiler Design
12	SE7204	Big Data Analytics
13	IF7007	Software Quality and Testing
14	NC7202	Wireless Adhoc and Sensor Networks
15	IF7008	Web Mining
16	IF7009	Image Processing and Pattern Analysis
17	IF7010	Intelligent Agents
18	IF7011	Internet of Things
19	NE7003	Web Engineering
20	CP7006	Parallel Programming Paradigms
21	NE7012	Social Network Analysis
22	IF7012	Knowledge Engineering
23	IF7013	Energy Aware Computing
24	IF7014	4G Technologies
25	CP7001	Performance Evaluation of Computer Systems

M.E(VLSI)		
1	AP7008	DSP Integrated Circuits
2	AP7001	Computer Architecture and Parallel Processing
3	AP7202	ASIC and FPGA Design
4	VL7001	Analog and Mixed Mode VLSI Design
5	VL7002	Security Solutions in VLSI
6	VL7003	Genetic Algorithms and its Applications
7	VL7004	Asynchronous System Design
8	CU7002	MEMS and NEMS
9	VL7005	Physical Design of VLSI Circuits
10	VL7006	Analog VLSI Design
11	VL7007	Process and Device Simulation
12	VL7008	Design of Semiconductor Memories

13	AP7071	Hardware Software Co-Design
14	CU7001	Real Time Embedded Systems
15	VL7009	Nano Scale Transistors
16	AP7016	System on Chip design
17	CP7023	Reconfigurable Computing
18	VL7010	Submicron VLSI Design
19	AP7301	Electro Magnetic Interference and Compatibility
20	VL7011	Signal Integrity for High Speed Devices
21	VL7012	Mixed signal IC Test and Measurements
22	AP7010	Data Converters
23	VL7013	VLSI for Wireless Communication
24	VL7014	IP Based VLSI Design
25	VL7015	Nanoscale Devices and Circuit Design

M.E(NW)		
1	CP7001	Performance Evaluation of Computer Systems
2	CP7003	Data Analysis and Business Intelligence
3	CP7004	Image Processing and Analysis
4	CP7008	Speech Processing and Synthesis
5	CP7006	Parallel Programming Paradigms
6	MU7102	Multimedia Communication Networks
7	NE7001	Sensing Techniques and Sensors
8	NE7002	Mobile and Pervasive Computing
9	NE7003	Web Engineering
10	NE7004	Network Protocols
11	CP7010	Concurrency Models
12	CP7011	Real Time Systems
13	CP7012	Computer Vision
14	CP7014	Software Architectures
15	CP7007	Software Requirements Engineering
16	NE7005	Protocols and Architecture for Wireless Sensor Networks
17	NE7006	Simulation of Computer Systems and Networks
18	NE7007	Network Management
19	IF7014	4G Technologies
20	NE7008	High Speed Switching Architecture
21	CP7019	Managing Big data
22	CP7020	Bio-Inspired Computing
23	CP7021	Medical Image Processing
24	CP7022	Software Design
25	CP7009	Machine Learning Techniques
26	NE7009	Networks Performance Analysis
27	NE7010	Next Generation Networks
28	NE7011	Mobile Application Development
29	CU7201	Wireless Communication Networks
30	NE7012	Social Network Analysis

31	CP7027	Multiobjective Optimization Techniques
32	CP7028	Enterprise Application Integration
33	CP7029	Information Storage Management
34	CP7030	Robotics
35	CP7031	Compiler Optimization Techniques

Value Added Courses

In the Affiliated University curriculum, to bridge the gap between the academic and industry needs, **value added courses** are introduced. In order to meet the industry requirements, each **department offers latest technologies/techniques as Value Added Courses (VAC)** to the students. Through these courses, students get hands on training on latest software packages. Utilizing the software packages in their laboratory / Project courses makes them to find new solutions for contemporary issues. All the UG students have to undergo at least one value added course in the fifth / sixth semester of their study. The list of Value Added Courses offered by different departments is given in the following Table.

S.No	Department	Name of the value added Courses
1	MECH	CAD/CAM WORKSHOP
2	EEE	Analysis Of Renewable Energy Sources Using CASPOC
3	IT	Embedded system using ARM processor & PSOC kit
4	IT	Robotics Systems Design Controls Testing Fully
5	CSE	Cloud Infrastructure & services
6	ECE	Hands on Training in digital Design using EDA
7	BME	Testing of Biological Samples

1.5 Any new Department/Centre introduced during the year. If yes, give details.

Nil

Criterion – II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty	Total	Asst. Professors	Associate Professors	Professors	Others
	207	156	41	16	-

2.2 No. of permanent faculty with Ph.D. 42

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year	Asst. Professors		Associate Professors		Professors		Others		Total	
	R	V	R	V	R	V	R	V	R	V
	32	32	02	02	06	06	-	-	40	40

2.4 No. of Guest and Visiting faculty and Temporary faculty Nil Nil 02

2.5 Faculty participation in conferences and symposia:

No. of Faculty	International Level	National Level	State Level
Attended	31	28	17
Presented Papers	31	43	0
Resource Persons	1	10	0

2.6 Innovative processes adopted by the institution in Teaching and Learning:

Innovation in Teaching Learning Process

1. Demonstrative Teaching

The teaching process is divided into four sections as follows

1. Introducing a real life problem to students

The study material is prepared as follows

Sl.No.	Unit	Topic Nature	Related Industry	Problems faced in the area	Journal Papers in the area	Conventional Solutions for the problem	Solution proposed in the topic of study	Method to learn	Integrated Questions
1.	I	Analy	ABB	Harmon	IEEE	Introduci	Optimizat	Software	Case

		sis Based	solutio ns	ics and Noise	Transactions on Power Delivery(Spe cific Paper)	ng tuned filters	ion Techniqu e	simulati on and theoreti cal explanat ion	study for a particul ar system
--	--	--------------	---------------	------------------	--	---------------------	----------------------	--	--

2. Recalling what is discussed in the last lecture
3. Demonstrate the topic based on model based teaching strategy
4. Asking integrated questions to test the understanding of students

2. Model Based Learning

Model based learning is an effective way of teaching -learning technique where students are enabled to learn the topic based on visualizing and analyzing the parts of various equipments. For this purpose various physical models of machine parts and electronic components , visual charts are maintained by the college.

3. Smartness Based Learning

Each and every individual have different ways of grasping things .There are mainly eight smartness identified in students. These are Visual Smart, Audio Smart and Nature Smart....etc. The institution identifies the smartness of each student by conducting short evaluation process and trains the students according to their smartness

4. Gamification in Teaching-Learning

This technique invokes interest in students to learn new concepts as they play a game. The topic is divided into different elements where it can be set as the rules and conditions for a game. The students are allowed to participate in the learning process as a team or as individual.

2.7 Total No. of actual teaching days

during this academic year

180

2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)

NA

The question paper setting for the internal tests are done in line with the different cognitive level. End Semester examinations are done by the Anna University Guidelines

2.9 No. of faculty members involved in curriculum Restructuring/revision/syllabus development

01		
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as member of Board of Study/Faculty/Curriculum Development workshop

1. Dr.V.Rajamani , Principal / Professor of ECE attended Revision of Curriculum under syllabi sub-committee R - 2017 held at Anna University, Chennai.

2.10 Average percentage of attendance of students

90.02 %

1.11 Course/Programme wise distribution of pass percentage :

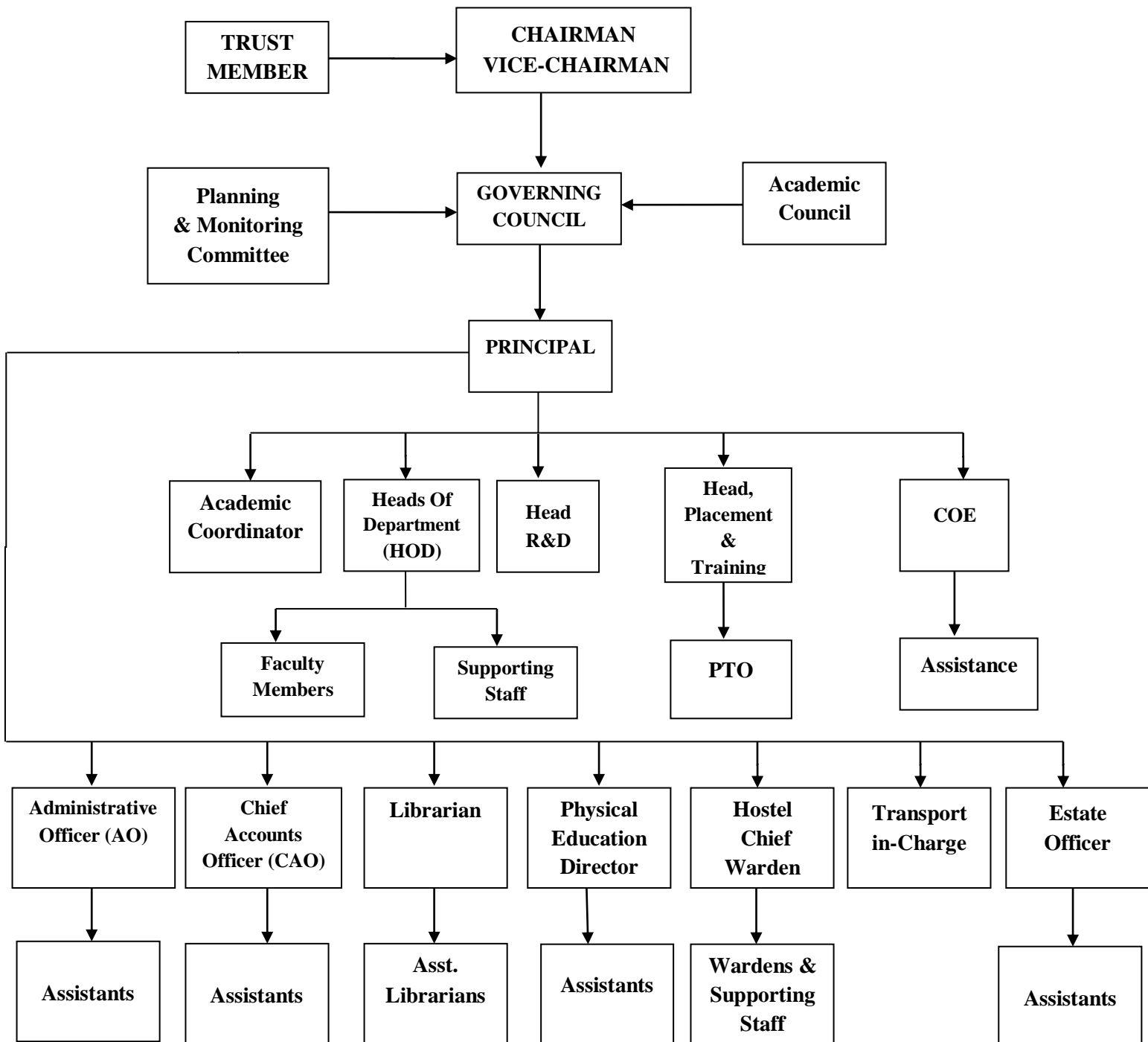
April-May 2018 Result Analysis

Title of the Programme	Total no. of students appeared	Division				
		I %	II %	III %	IV %	Pass %
BME	166	98.28	78.95	94.74	96.15	90.96
CIVIL	150	76.32	51.06	77.08	83.64	77.33
CSE	287	84.11	63.06	65.38	98.61	73.17
ECE	330	71.29	81.65	82.61	99.06	87.88
EEE	251	60.98	47.56	86.42	93.18	78.49
IT	222	73.03	55.56	80.82	98.31	75.68
MECH	396	79.28	70.40	79.70	97.10	83.84
VLSI	3		100.00	-	100.00	100.00
EST	10		66.66	-	100.00	83.33
CSE	5		33.33	-	100.00	66.66
M.TECH - IT	3	-	0.00	-	-	
Over all Pass Percentage (%)						79.12

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes:

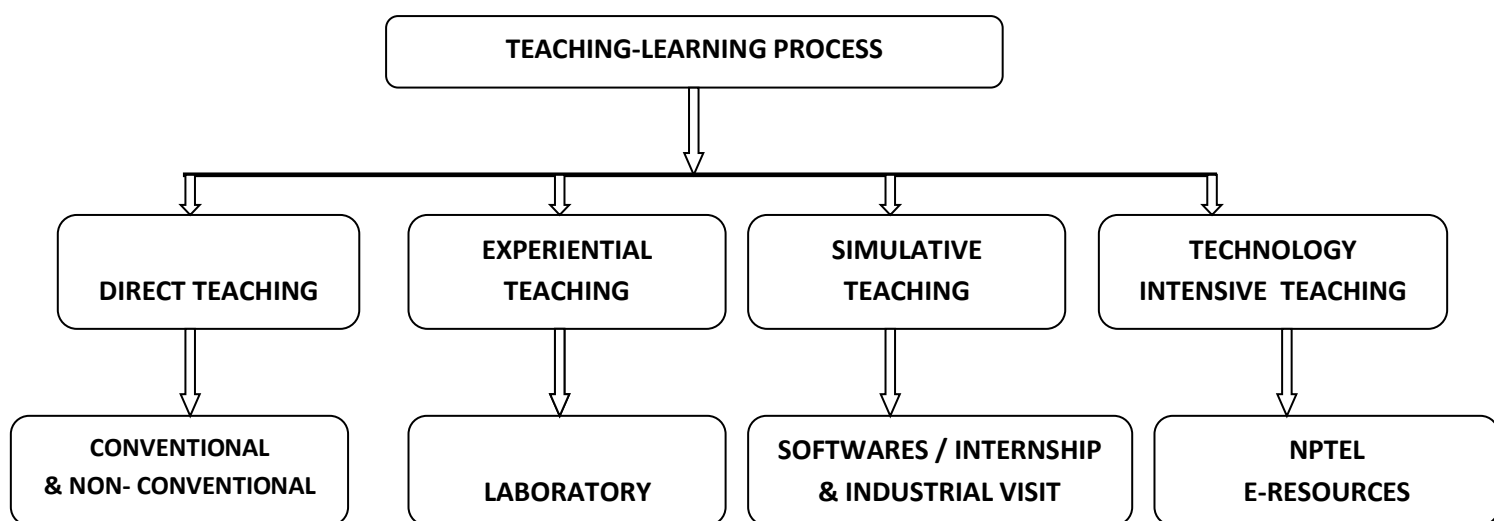
The following is the organizational structure for the assurance of the quality in the academic attainment of the college. The review of the teaching learning is a collective

responsibility of all stakeholders and so the college has given the responsibility of quality assurance at all levels of the organization. However, the Internal Quality Assurance Cell has been given the responsibility of continuously monitor the system effectiveness through the periodical audits and observations and has been asked to give suggestions and recommendations on the required changes in the system for the assurance of the stakeholders satisfaction.



Teaching & Learning Review Process

The Review of the teaching learning is done through the assessment of students learning, curriculum evaluation and course assessment.



The academic growth of all the students is being monitored on a regular basis by the individual departments. The weak students are identified and counselled. They are given extra coaching based on their requirement. This involves the individual faculty, respective HODs and the Principal at the levels required appropriately. The disadvantaged students are identified and are taken care.

2.13 Initiatives undertaken towards faculty development

<i>Faculty / Staff Development Programmes</i>	<i>Number of faculty benefitted</i>
Refresher courses	45
UGC – Faculty Improvement Programme	0
HRD programmes	14
Orientation programmes	47
Faculty exchange programme	24
Staff training conducted by the university	15
Staff training conducted by other institutions	66
Summer / Winter schools, Workshops, etc.	17
Others	32

2.14 Details of Administrative and Technical staff

Category	Number of Permanent Employees	Number of Vacant Positions	Number of permanent positions filled during the Year	Number of positions filled temporarily
Administrative Staff	11	-	-	-
Technical Staff	33	4	4	-

Criterion – III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

The college has the following committees for sensitizing and promoting the research climate in the institution which meet periodically and advice on the course of action to be taken in this regard. Based on the outcomes of these committee, IQAC has designed its orientation programs and chairmen of these committees were invited to address the faculty members in suitable forums.

Responsibilities

- i. To promote research activities in the college
- ii. To showcase capabilities of all the departments
- iii. To formulate norms to pursue Ph.D
- iv. To permit faculty members to register for Ph.D

Research Advisory Board Members

S.No	Name	Designation	Organization
1	Dr. K. J. Sreeram	Senior Scientist	CSIR, CLRI. Chennai
2	Dr. M. Michael Gramiha	Professor	IIT-Madras Chennai
3	Dr. P. Veeramani	Principal Scientist	CSIR, CECRI Karaikudi
4	Dr. K. Srinivasan	Senior Scientist	CSIR, CLRI Chennai
5	Dr. K. Balasubramaniam	Professor	Stanley Medical College Chennai
6	Dr. G. Dalmin	Professor	Govt. College for Men Chennai
7	Dr. A. Gnanamani	Principal Scientist	CLRI, Adayar, Chennai
8	Dr. V. Rajamani	Principal / Prof of ECE	Vel Tech Multi Tech
9	Dr.K.MohanaSundaram	Dean Research	Vel Tech Multi Tech

3.2 Details regarding major projects

	Completed	Ongoing	Sanctioned	Submitted
Number	10	3	1	56
Outlay in Rs. Lakhs	114.59	108.8	15.84	-

3.3 Details regarding minor projects

	Completed	Ongoing	Sanctioned	Submitted
Number	06	02	-	-
Outlay in Rs. Lakhs	0.7L	0.8L	-	-

3.4 Details on research publications

	International	National	Others
Peer Review Journals	216	34	0
Non-Peer Review Journals	16	0	0
e-Journals	0	0	0
Conference proceedings	102	98	38

3.5 Details on Impact factor of publications:

Range Average h-index Nos. in SCOPUS

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

Nature of the Project	Duration Year	Name of the funding Agency	Total grant sanctioned	Received
Major projects	3	DST	28.84 L	19.35 L
	3	DST	39.96 L	28 L
	3	DST-FIST	40 L	40 L
Minor Projects	8	TNSCST	0.8 L	0.8L
Interdisciplinary Projects	-	-	-	-
Industry sponsored	-	-	-	-
Projects sponsored by the University/ College	-	-	-	-
Students research projects <i>(other than compulsory by the University)</i>	-	-	-	-
Any other(Specify)	Seminar Grant	AICTE	1.00 lakh	1.00 lakh
Entrepreneur Project Fund	Camp Grant	DST-NIMAT	Rs.20000	Rs.20000
Total	17		110.8 L	89.35 L

3.7 No. of books published i) With ISBN No. Chapters in Edited Books

ii) Without ISBN No.

3.8 No. of University Departments receiving funds from

UGC-SAP	NA	CAS	NA	DST-FIST	NA
DPE	NA			DBT Scheme/funds	NA

3.9 For colleges

Autonomy	-	CPE	-	DBT Star Scheme	-
INSPIRE	-	CE	-	Any Other (specify)	

3.10 Revenue generated through consultancy

Rs.15,50,000

3.11 No. of conferences

organized by the Institution

Level	International	National	State	University	College
Number	1	-	-	-	-
Sponsoring agencies	Self	-	-	-	-

3.12 No. of faculty served as experts, chairpersons or resource persons

26

3.13 No. of collaborations

International **1**

National **4**

Any other **-**

3.14 No. of linkages created during this year 02 - i) CDCE Automation ii) India Trust

3.15 Total budget for research for current year in lakhs :

From Funding agency **35.15 L**

From Management of University/College

20.00 L

Total

55.15 L

3.16 No. of patents received this year

Type of Patent		Number
National	Applied	40
	Granted	0
International	Applied	0
	Granted	0
Commercialised	Applied	0
	Granted	0

3.17 No. of research awards/ recognitions received by faculty and research fellows
Of the institute in the year

Total	International	National	State	University	Dist	College
01			05			

3.18 No. of faculty from the Institution
who are Ph. D. Guides
and students registered under them

22

78 Scholars registered under them

3.19 No. of Ph.D. awarded by faculty from the Institution

-

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

JRF 03 SRF - Project Fellows - Any other -

3.21 No. of students Participated in NSS events:

University level - State level 213
National level - International level -

3.22 No. of students participated in NCC events:

University level - State level 129
National level - International level -

3.23 No. of Awards won in NSS:

University level - State level 16
National level - International level -

3.24 No. of Awards won in NCC:

University level - State level 6
National level - International level -

3.25 No. of Extension activities organized

University forum College forum
 NCC NSS Any other

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

Mechanisms/ Systems for Social Involvement

Social Involvement Programme Name (NCC, NSS, Red Cross, Eco-club etc.)	Number of students	Number of activities/Camps conducted in last one year
NCC	89	4
NSS	100	2
Youth Red Cross	94	3
Others	24	

Name of social outreach programme	Number of students	Number of hours per student (last one year)	Description of Event
Rally on "Avoid using of Plastics"	70	150	Conducted a rally on plastic prohibition
International Day against Drug Abuse	57	200	Conducted a rally against Drug abuse
International Yoga Day	60	250	Given practice on how to do yoga and meditation
swachh Bharat program	25	270	During summer holidays ,the students of VTMT has gone to several villages for spreading awareness on clean India Movement
World day against child labour	25	200	Conducted an awareness program in Mother Therasa Educational & Charitable Trust
World Environment Day	30	450	Conducted tree plantation program in Morai Village Police Station

Criterion – IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

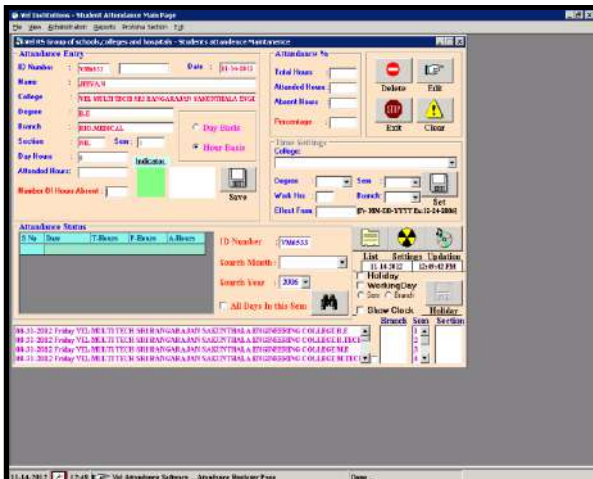
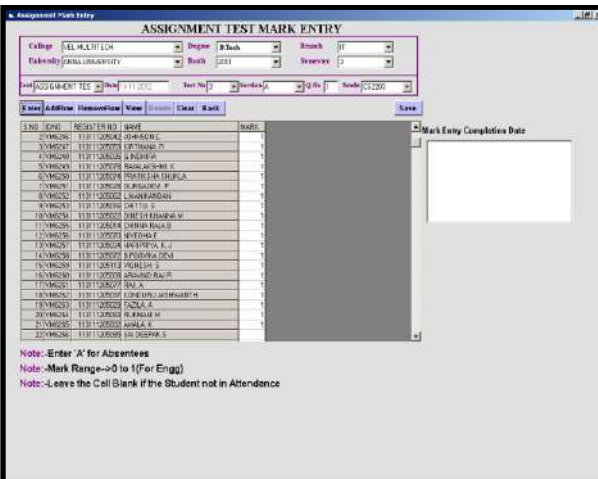
Facilities	Existing	Newly created	Source of Fund	Total
Campus area	37495 sq.m	0	Internal	
Class rooms	65	0	Internal	
Laboratories	110	0	Internal	
Seminar Halls	9	0	Internal	
No. of important equipments purchased (≥ 1 -0 lakh) during the current year.	203	4	Internal	207
Value of the equipment purchased during the year (Rs. in Lakhs)	675.42	7.2	Internal	682.62
Others	-	-	-	-

4.2 Computerization of administration and library

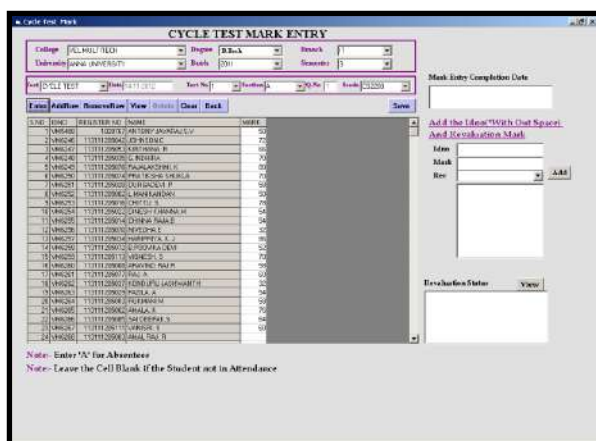
Computerization is simple in an automated office having multiple functions, where the integrated and computer-aided system allows many office activities to be performed with electronics equipment.

ATTENDANCE

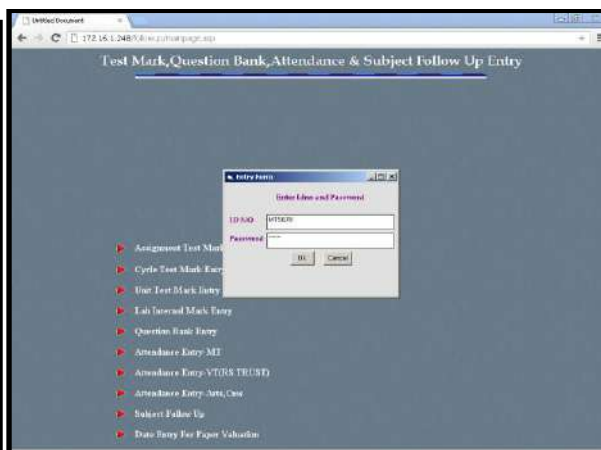
ASSIGNMENT MARKS

TEST MARKS



FACULTY LOGIN PAGE



Library Automation

Content management system for e-learning

With the objectives of promoting e -Learning resources and providing opportunities for self-learning beyond regular curriculum among our students, Digital Library has been created in our college and accessed through Intranet and WiFi connectivity. The e-Learning resources contain NPTEL Videos, NPTEL Web courses, E-Books .

Participation in Resource sharing networks/consortia

The college library has the DELNET facility. The books and articles which are not available in the library can be accessed through DELNET. In addition to that, the college library is the member of British Council Library, American Library and Anna University Library through which users can access the unavailable resources.

4.3 Library services:

Type of catalogues	Amount of investment in each type
Printed books	Rs. 46043400
Printed or electronic periodicals (excluding those from databases)	Rs.239364
eBooks (excluding those from databases)	Rs.13750
CDs/DVDs	Rs.39000
Databases	NA

4.4 Technology Up-gradation (overall)

	Total Computers	Computer Labs	Internet	Browsing Centres	Computer Centres	Office	Departments	Others
Existing	1402	1093	170	--	--	6	49	84
Added	100	10	--	--	--	--	--	--
Total	1502	1103	170			6	49	84

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

1. Faculty Development Program was conducted by FACE and 204 faculty members were benefited.
2. Online assessment was conducted by Skill rack for all final year students.
3. CASPOC software training is given to final year students.
4. FOMAC Software conducted online assessment for final year students.
5. AMCAT assessment program was conducted to all final year students by Aspiring Minds.
6. Conducted One Day Workshop on the topic of ' 3D Modelling &Analysis using CFD' by CADD CAMM Solutions.
7. B.TECH GURU - Online Video & Assessment Demo Program was conducted.
8. Subject Entry Software Demo was conducted at Seminar Hall for newly recruited faculty members.
9. Conducted Pre-Placement Drive for all final year eligible students at convention centre, VTMT.
10. Faculty Development Programme was organised by TCS and 76 faculty members were benefited.
11. Technical training was given to ECE, EEE and Mechanical students by our faculty members.
12. Staff and students registered and undergone courses on NPTEL.
13. Project based enhanced learning modules were arranged for third year students.

4.6 Amount spent on maintenance in lakhs :

i) ICT	2.75 L
ii) Campus Infrastructure and facilities	2.35 L
iii) Equipments	9.20 L
iv) Others	3.5 L
Total :	17.80 L

Criterion – V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

There are the students forums through which various student support services are provided for their better exposure to the latest developments and their overall personality development. The following the list of various forums for students which are very active throughout the year.

Coaching classes for competitive exams

The students are motivated and trained by the faculty members to appear for the TOEFL, GRE, CAT, GATE, GMAT, NET, SET and other competitive exams. Concern faculty members guide the students to apply for higher education and conduct different coaching classes like communication skills, aptitude training program etc. Competitive exam books are made available in the library for the students

Skill development Programme

The college regularly conducts Personality Development Program to improve the communication skills of the participants. The college organizes guest lecturers from the industry which provides regional and global employment opportunities for the students. Special classes for developing soft skills are conducted to students from rural background. Besides this, the college offers special Personality development program (PDP) and Campus Recruitment Training (CRT) as to all the final year students.

- **Offline Training:** Problem solving on (quantitative aptitude, verbal ability, logical reasoning) and soft skills (behavioral skills, communication skills)
- **Online Training:** Video and audio based Online Training for English, Soft skills and Aptitude are provided by M/s. Globarena
- **Technical Training:** Technical Training per week by the faculty to recap the core subjects studied by the students
- **Training agency:** Classroom Training for 36 periods per semester provided by “M/s FACE” [Focus Academy for Career Enhancement], M/s. Globarena, etc.,

Entrepreneurs Skill Development

Entrepreneurship development 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 college. The students are given special training in association with India Trust to develop the entrepreneurial skill set.

Support for slow learners

Slow learners are identified through the various assessment processes like weekly test, continuous assessment test, laboratory viva sessions and interaction during the lecture delivery, etc. These students are asked to discuss with the faculty in person during the extra hours. 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.

5.2 Efforts made by the institution for tracking the progression

A periodical review is done with the various forum and activity in-charges by the Principal

5.3 (a) Total Number of students

UG	PG	Ph. D.	Others
2179	17	-	-

(b) No. of students outside the state

127

(c) No. of international students

0

No	%
1551	63.35

Men

No	%
897	36.64

Women

Last Year						This Year					
General	SC	ST	OBC	Physically Challenged	Total	General	SC	ST	OBC	Physically Challenged	Total
394	248	1778	-	-	2420	887	1561	-	-	-	2448

Demand ratio - 86.80%

Dropout % - 0.017 %

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

The following training and coaching for various competitive examinations are regularly conducted for final and pre-final year students by external agencies as well as internal resources.

1. Soft skill and Aptitude training by Professionals
2. Business English Certificate (BEC) course conducted
3. Higher Education coaching classes conducted

No. of students beneficiaries

5.5 No. of students qualified in these examinations

NET	<input type="text" value="-"/>	SET/SLET	<input type="text" value="-"/>	GATE	<input type="text" value="78"/>	CAT	<input type="text" value="11"/>
IAS/IPS etc	<input type="text" value="-"/>	State PSC	<input type="text" value="-"/>	UPSC	<input type="text" value="-"/>	Others	<input type="text" value="79"/>

5.6 Details of student counselling and career guidance

The guidance and counselling of students is an integral component of the educational mission of the college.

Mentoring System

Guidance and counselling services and programs promote the personal/social, educational, and career development of all students. A student counselor has been designated to counsel the students. Mentors enquire about their wards academic & personal issues. SDP book is maintained to record the students information. Mentor coordinator meeting will be conducted with the principal once in every month. The following areas are focused

- Mentors will identify the academic and personal problems of their students
- Students are motivated to participate in co & extra-curricular activities and their progress is recorded
- Students progress in academic and extra-curricular activities are monitored continuously
- Students are counselled regularly to identify and address their academic and personal issues if any
- Issues of students will be notified and communicated to their parents
- Actions will be taken based on the problem
- Student Development programme handbook is maintained to record the student credentials

Counselling was done related to various issues like

- Language problem
- Vocational group in HSC
- Family problems
- Health Problems

No. of students benefitted All the UG & PG students

5.7 Details of campus placement

<i>On campus</i>			<i>Off Campus</i>
Number of Organizations Visited	Number of Students Participated	Number of Students Placed	Number of Students Placed
76	509	412	39

5.8 Details of gender sensitization programmes

The VelTech MultiTech Dr. Rangarajan Dr. Sakunthala Engineering College has been committed to the elimination of all forms of discrimination against women and takes proactive steps towards gender sensitization and elimination of sexual harassment. In order to take proactive steps and sustained efforts towards gender sensitization and prevention of workplace harassments, the College has established an Apex Committee consisting of the committee members

List of other Grievance Redressal Cells:

- Student Grievance Redressal Cell
- Teacher Grievance Redressa Cell
- Non-Teaching Staff Grievance Redressal Cell

Women Empowerment Cell committee Members

S no	Name of the Member	Designation
1	Ms.P.M.Anu	Convener
2	Ms.Senthamarai	Coordinator
3	Ms .E.Nalina	AP-CSE
4	Ms. Subalakshmi	AP-CIVIL
5	Ms. Kalpana	AP-ECE
6	Ms. Vijaya Lakshmi	AP-BME
7	Ms. Vidhya	AP-EEE

SPARSH Members:

S no	Name of the Member	Designation
1	Dr.A.Kavitha	Chairperson
2	Ms.P.Manjula	Convener
3	Mrs.S.Pavithra	Member
4	Ms.P.Padmapriya	Member
5	Mrs.R.Subalakshmi	Member
6	Ms.J.Karthika	Student Member
7	Ms.R.Santhiya	Student Member
8	Ms.R.Keerthika	Student Member
9	Monisha R	Student Member
10	Ms.M.Deepalakshmi	Student Member

5.9 Students Activities

5.9.1 No. of students participated in Sports, Games and other events

State/ University level National level International level

No. of students participated in cultural events

State/ University level National level International level

5.9.2 No. of medals /awards won by students in Sports, Games and other events

Sports: State/ University level National level International level

Cultural: State/ University level National level International level

5.10 Scholarships and Financial Support

	Number of students	Amount
Financial support from institution	24	2,50,000
Financial support from government	1423	25645680
Financial support from other sources	171	1390000
Number of students who received International/ National recognitions	-	-

5.11 Student organised / initiatives

Fairs : State/ University level National level International level

Exhibition: State/ University level National level International level

5.12 No. of social initiatives undertaken by the students

5.13 Major grievances of students (if any) redressed: NILL

Actions taken by Grievance & Redressal Committee: NA

Refer Minutes in the Annexure III

Criterion – VI

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision

Elevating well being of humanity by augmenting human resource potential through quality technical education and training.

Mission

- To Effectuate supremacy in technical education through articulation of research and industry practices for social relevance .
- To inculcate the habit of lifelong learning.
- To exhibit professional ethics, commitment and leadership qualities

Quality Policy

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

6.2 Does the Institution has a management Information System

Yes. There is an Intranet connecting all departments. We have entire automation system for maintain academic records.

6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

VelTech Multi Tech follows Anna University prescribed curriculum.

Curriculum implementation

Theory Courses

The subject allocation to the faculty member is based on

- ✓ Faculty interest
- ✓ Faculty Specialisation / Competency / Experience
- ✓ Previous Year Result
- Previous year students feedback

Practical Courses

- ✓ Lab manual by the faculty concerned
- ✓ Dry-run tests method of assessment is followed
- ✓ Practical exercises as per curriculum and beyond the syllabus

Project

- ✓ Student's choice of project domain is mapped with the faculty specialization
- ✓ Option to do Industry based projects with Internal and External Guides
- ✓ Four reviews are conducted for suggestions on project improvement
- ✓ Conference / Journal publication, once if the project work is completed

6.3.2 Teaching and Learning

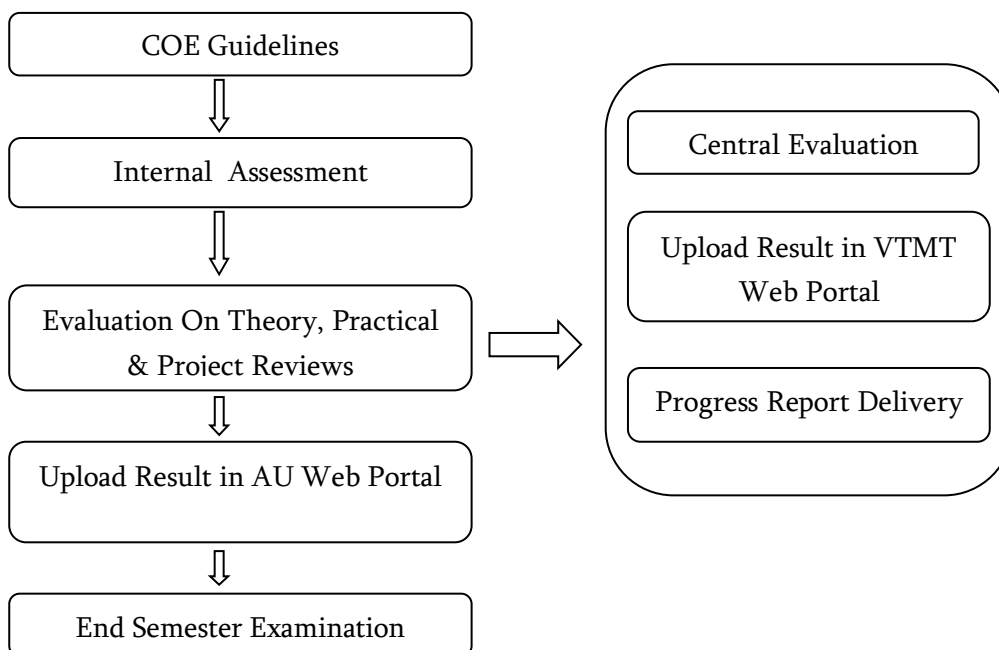
CONVENTIONAL

- ✓ Equipped With DLP/LCD
- ✓ Open/ Group Discussions
- ✓ Assistance for In-house & Industry Projects
- ✓ White Board, Chalk & Talk, ICT method of teaching

NON-CONVENTIONAL

- ✓ Encouragements for Discussions outside the classrooms
- ✓ Seminars on current technical affairs
- ✓ Business Incubations
- ✓ Participation In Debates
- ✓ Virtual forum

6.3.3 Examination and Evaluation



6.3.4 Research and Development

The collaborative R&D projects on frontier research areas are playing a major role in enriching knowledge of our faculty and students and there by in the delivery of our educational programs. Also, these projects play a vital role in our organizational

innovation process by the development of new inventions, algorithms and deliverable products and quality of the same are well indicated by numerous publications in International Journals, arising out of these R&D projects.

Research Highlights

- DST-FIST Funded Institute
- DSIR SIRO Recognized Institute
- MoUs with National/ International Institutes and Industries
- Anna University Recognized Research Centers
- Entrepreneurship Development Institute (EDI) approved by CED, Anna University
- 12b and 2f status from UGC
- Students Achievements: Motorola Scholar, USA; Best Innovation Award , ICTACT, ISTE award etc.
- Life Time Achievement Award by National Cyber Security Standards Summit – 2013 received by Founder Chairman
- Active ISF Award By IETE

Facilitating Smooth Implementation For Research

1. Autonomy to the principal investigator
Complete autonomy to PI's as per the guidelines of the funding agencies
 2. Separate bank accounts maintained for individual projects
 3. Adequate infrastructure
The departments are established with adequate lab facilities to carry out the research projects
 4. Facilitate timely auditing and submission of utilization certificate to the funding authorities
 5. Customs and duty tax exemption to import research level equipment under SIRO
 6. Support in terms of technology and information needs
 7. Adequate human resources
 8. Reduced teaching load and special leave are offered to faculty members who pursue Ph.D
- 6.3.5 Library, ICT and physical infrastructure / instrumentation

6.3.6 Human Resource Management

Human resource plays key role in sustainable development and growth of any educational institution of higher learning.

- Recruitment Policy
- Release of advertisement
- Short listing of applicants
- Sending call letters for interview

- Conducting interview by Panel Committee
- Preparation of Selection list
- Sending intimation of selection
- Sending appointment order
- Obtaining joining reports

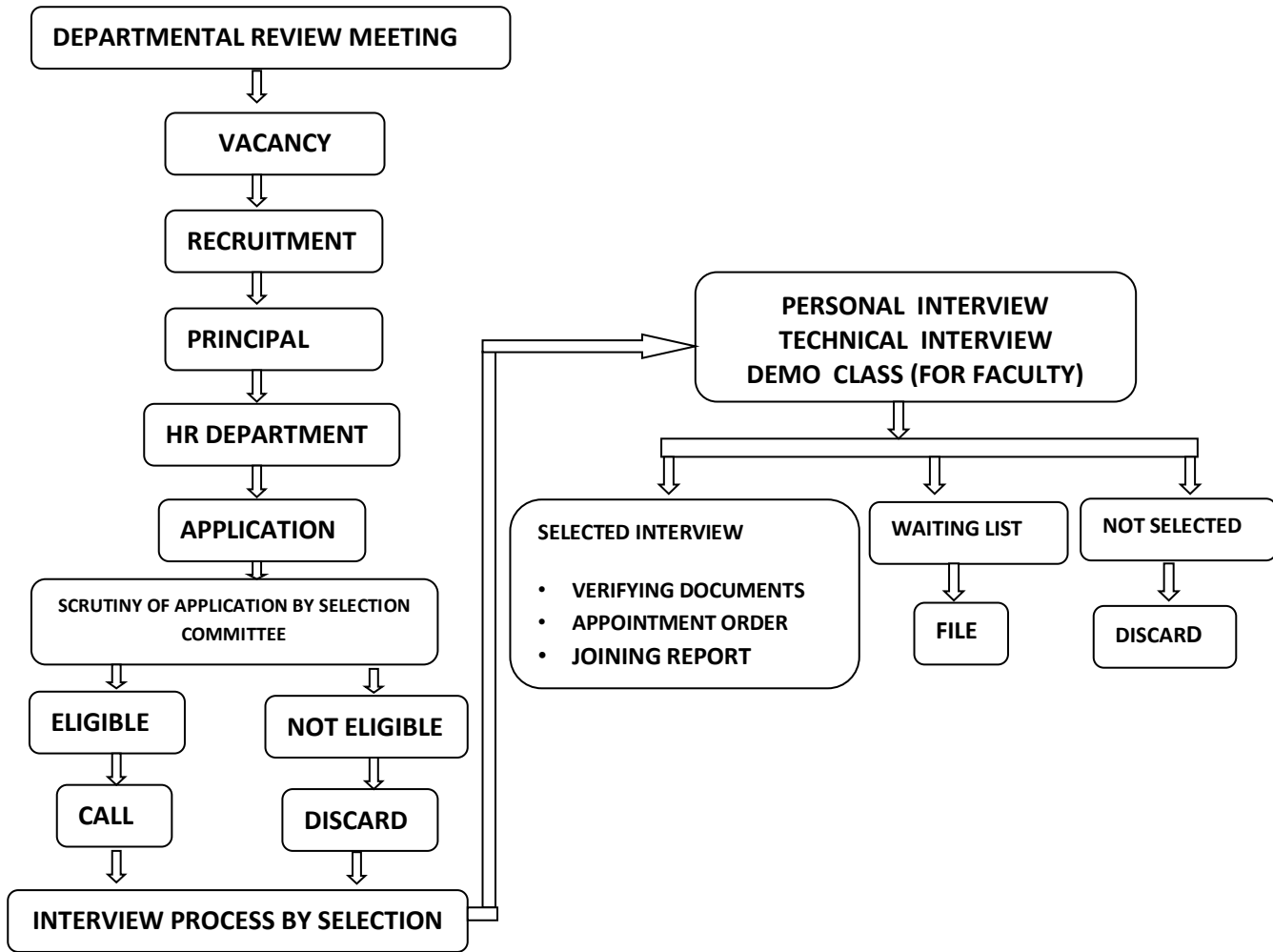
In view of the above, the college is training the faculty in a phased manner on both pedagogical aspects and on domain knowledge to achieve the goal of 'Outcome Based Education' environment. Training analysis is carried out by considering individual faculty requirement and a comprehensive training plan is developed for the next 24 months. As per the training plan, the institution is organizing various seminars, conference, workshops and FDPs which benefits the faculty, students and the faculty of surroundings colleges. Similar plan is devised for technical and administrative staff.

Industry linkage is necessary for technical institutions for comprehensive development on education.

6.3.7 Faculty and Staff recruitment

Faculty and Staff Recruitment is strictly based on Merit, after notifying the vacancies in the leading newspapers. During recruitment process, the scrutiny committee calls the candidates based on academic criteria. Recruitment is done by selection committee consisting of the Principal, Head of the department and the External Experts in the field of specialization. Appointment orders are sent to selected candidates. They are asked to join the college within a predetermined date so that the academic year goes smoothly. Salaries are usually offered based on qualifications and teaching experience with attractive pay packages as per AICTE/college norms.

Recruitment Process



1.3.8 Industry Interaction / Collaboration

As part of industry interaction VELTECH MULTITECH Engineering College adopts and initiates practices to find the expertise by not only recruiting faculty from industry but also provides a platform for practical exposure to the students and faculty as well. The students are encouraged to attend in-plant training during their vacation. Students are encouraged to undertake Industrial projects and mini projects to keep them abreast of the latest developments. Eminent personalities are invited to update the recent trends in technology. Students are given options to carryout either in-house or industry projects. Students are gained industrial exposure / to develop their career in the high tech industrial requirements. The activities initiated are,

- Industrial Visits
- Guest lectures by professionals from industry and academics.
- Industry Institute Partnership Cell
- Entrepreneurship Development Cell

- Professional Societies/Bodies.
- Student training
- Collaborative research and development
- Students projects

The list of Companies in which student undergoes In-Plant training is presented below:

SNO	COMPANY DETAILS
1	Dr.Somervell Memorial C.S.I Medical College & Hospital
2	Electronic Swag Private Ltd
3	KMC, Kauvery Hospital
4	NSIC
5	Sir Ivan Stedeford Hospital
6	PRS Hospital
7	Kerala Industrial Infrastructure Development Corporation
8	Chennai Air Port
9	Southern Railway Zone
10	Chennai Port Trust
11	Larsen & Tourbro Limited Construction Buildings & Factories
12	Uniq Technologies
13	BSNL
14	AIR India
15	Bharat Sanchar Nigam Limited
16	HCL Career Development Centre
17	Oneyes Technologies
18	Chennai Port Trust
19	ICF, Perambur
20	Amalgamations Repco Ltd
21	Ashok Leyland
22	Advanced Training Institute
23	Chennai Port Trust
24	Integral Coach Factory
25	IP Rings
26	Kuttukaran Institute (Popular Vehicles And Services Pvt Ltd-Anna Nagar)
27	Shardlow India Limited
28	TVS-Sundaram Motors
29	Tube Products Of India Ltd
30	Wheels India Limited
31	Auto Tech Industries Pvt Ltd
32	Damodar Enterprises
33	EID Parry Pvt Ltd
34	Engineering Workshop
35	Kone Elevators Pvt Ltd
36	Giri Motors-A PSC Of Tata Motors
37	R.C.DAS Engineering Pvt Ltd
38	Rail Net Software Solutions
39	Sathya Auto Pvt Ltd
40	Schwing Stetter India Pvt Ltd
41	Southern Railway

42	TNSTC-Madurai
43	Tuticorin Thermal Power Station-TANGEDCO
44	VRN Engineering Services

Industrial visits are arranged to students with the leading Industries in order to orient themselves in application with the theory learnt.

The summary of events for past one year is tabulated as below

Sno	Date	Event	Dept	Description of Event
1.	03.04.18	EDC	Institution	EDI - Proposal submitted for conducting Entrepreneurship Awareness Camp
2.	03.04.18	NIRF	Institution	NIRF 2018 Ranking released - VM stands amongst the Top 150 - 200 band colleges
3.	12.04.18	Surveys	Institution	Times-i3RC Top Engineering Institutes Ranking Survey 2018 - Submitted Soft & Hard Copy
4.	16.04.18	FDP	CSE, EEE, MECH	Anna University FDP proposal submitted
5.	20.04.18	Surveys	Institution	Outlook - The Best Professional Colleges in India Survey 2018 - Submitted Soft & Hard Copy
6.	02.05.18	Scopus	All Departme	Submitted 77 Research Papers to IJPAM
7.	02.05.18	Statutory norms	Institution	Submitted willingness to AICTE J & K admission 2018
8.	09.05.18	FDP	CSE	Anna University FDP, Department of CSE selected to conduct the FDP
9.	09.05.18	Surveys	Institution	Career360 Survey Results Declared. Ranked AAA+ at state level.
10.	09.05.18	Surveys	Institution	DQ - CMR Best Tech School Survey 2018 - Submitted Soft & Hard Copy
11.	10.05.18	EDC	Institution	ED - Canada Acceleration Proposals Submitted (BME-2, CIVIL-2, CSE-2, ECE-2, EEE-2, MECH-1, IT-
12.	14.05.18	Statutory norms	Institution	Anna University 2017-18 - Odd Semester results ranking released - VM ranked 19th amongst 497
13.	17.05.18	Patent	Institution	40 Patent applied
14.	19.05.18	Alumni	Institution	Felicitated the alumni students for their grateful recognition of dedication and time towards placement
15.	19.05.18	Surveys	Institution	VM ranks 100th position among Top Engineering Institutes in India and 16th in Tamil Nadu by
16.	19.05.18	Statutory norms	Institution	Application for Institutional Membership at National Cyber Safety and Security Standards with cheque of

17.	20.05.18	Academics	Institution	Research Centre Renewals was done for the Departments of ECE, Physics & Chemistry
18.	21.05.18	Seminar	Institution	Conducted Seminar on 'CV Writing and Interview Skills' by Cambridge Assessment English
19.	21.05.18	Surveys	Institution	Times-i3RC Survey 2018 Results Declared. Ranked 43rd under Placement category and 41st under
20.	23.05.18	Scopus	All Departme	Submitted 103 Research Papers to IJPAM
21.	24.05.18	FAR	CSE	Dr.A.Kaladevi (Prof/CSE, MTS1733) attended International Conference on IEEE Technological
22.	26.05.18	Fee Hive	Institution	SMS sent to all students regarding Fee Hive.
23.	26.05.18	Academics	Institution	Final year all clear students' results released. Total 376/377. Pass percentage is 99.75%
24.	29.05.18	Academics	Institution	Anna University Rank Holders list released. VM hold 21 UG ranks and 5 PG ranks.
25.	30.05.18	FAR	ECE	Mr. Vishnu vardhan Rao(AP/ECE, MTS1066), Mr. Arun Raghesh (AP/ECE, MTS1368) attended 7-day
26.	31.05.18	Academics	Institution	Renewal orders for Research centers of ECE and Chemistry received.
27.	04.06.18	Statutory norms	Institution	Acknowledgement is received for Institutional Membership at National Cyber Safety and Security
28.	05.06.18	Other Events	Institution	VM celebrates "World Environment Day"
29.	08.06-09.06.18	FAR	S&H	Dr.Sethuraman (AP/S&H, MTS1749) attended International Conference & presented a paper
30.	11.06.18	Seminar	Institution	Conducted 1-Day Seminar on the topic "Refresher Teacher Support Program B1 Business Preliminary" by
31.	12.06.18	Other Events	Institution	VM observes "World Day Against Child Labour"
32.	13.06.18	AICTE - PMKVY	MECH	Submitted the Assessment Report to AICTE - PMKVY
33.	13.06.18	NBA	CSE & ECE	CSE & ECE has been approved for further processing of submission of filled-in Pre-qualifier in Tier II after
34.	14.06.18 &	Innovation	BME, CSE & IT	4 Batches (CSE -2, IT - 1, BME - 1) are participating in Final round of Motorola FAER Award in Bangalore
35.	15.06.18	Innovation	IT	Students of the Department of IT bagged the Award at the Finals of the Motorola - MCAFEE Scholar Program
36.	18.05-25.06.18	FDP	CSE	Department of CSE conducted 7 Day FDP on the topic "Cryptography & Network Security"
37.	19.06.18	Surveys	Institution	GHRDC CSR Best Engineering College 2018 Results Declared. Ranked 18th under the category "Top

38.	20.06.18	Surveys	Institution	The Week Hansa Best Engineering College 2018 Results Declared. Ranked 58th place among Top Private
39.	20.06.18	Surveys	Institution	India Today - MDRA Best Colleges Ranking 2018 Results Declared. Ranked 56th place among Top
40.	20.06.18	Other Events	Institution	VM conducts Swachh Bharat 100 Hours Summer Internship Program @ Morai & Veerapuram Village
41.	21.06.18	Other Events	Institution	VM celebrates International Yoga Day
42.	21.06.18	AICTE- CII	Institution	VM has been shortlisted for the second level of AICTE-CII Survey 2018, The Filing of Application for
43.	22.06.18	Innovation	MECH	TECHTOP 2018 - 1 Team from Department of Mechanical is selected to the Finals which is
44.	22.06.18	Scopus	Institution	IJPAM 180 papers published in Website (Ref: https://acadpubl.eu/hub/index.html)
45.	23.06.18	Academics	Institution	Final year all clear students results released (After Revaluation). Total 377/377. Pass percentage is 100%
46.	25.06 - 30.06.18	FAR	ECE	Dr. Kavitha (Professor / ECE, MTS1733) attended 6 days AICTE ISTE sponsored refresher programme on
47.	26.06.18	Other Events	Institution	VM observes "International Day Against Drug Abuse"
48.	26.06.18	Statutory norms	Institution	Submitted the soft copy of IPR Data to The CIPR, Anna University
49.	27.06.18	Statutory norms	Institution	AICTE - Internshala registration completed
50.	27.06.18	NBA	CSE & ECE	NBA Prequalifier uploaded - Department of CSE & ECE
51.	27.06.18	AICTE - PMKVY	BME, CSE, ECE	AICTE - PMKVY Department of BME, CSE, ECE & IT applied
52.	28.06.18	Statutory norms	Institution	Submitted the Caste based Discrimination Action Taken report to Anna University
53.	28.06.18	Statutory norms	Institution	Submitted the soft copy of CSR Activity report to Anna University, AICTE & UGC
54.	28.06.18	Academics	Institution	Anna University 2017 - 18 Even Semester Results released.
55.	02.07.18	Academics	Institution	College reopened for semesters 3, 5 & 7 of B.E / B.Tech and M.E. / M.Tech
56.	10.07.18	FAR	MECH	Mr. Thamaraiselvan (AP / MECH, MTS1435) attended ED Conference @ Anna University, Chennai
57.	13.07.18	GL	CSE	Guest Lecture on 'Java Application Development Tools' by Mr. M. Vinoth Kumar, Senior Technical
58.	14.07.18	GL	MECH	Guest Lecture on 'Understanding on Fossil Fuel Emissions' by Mr. K. Ganapathy, DGM, Simpson & Co.

59.	14.07.18	FAR	CSE	Mr. Sathish Kumar (AP / CSE, MTS1651) attended 1 Day NPTEL - SPOC workshop @ IIT Madras
60.	14.07 - 15.07.18	Innovation	MECH	Tech Top Annual Innovation Summit 2018 - 1 team from the Department of Mechanical Engineering
61.	18.07.18	Other Events	Institution	VM organized Rally on the topic "Avoid Using of Plastics" @ Kollimedu village
62.	20.07.18	Seminar	MECH	Seminar on 'Design and Development Services in Reverse Engineering' by Mr. G. Surendra Kumar,
63.	20.07- 21.07.18	Innovation	CIVIL & MECH	NAFEMS Design Innovation Contest - 1 team from Department of Civil and 1 Team from Mechanical
64.	20.07- 21.07.18	Innovation	IT & MECH	TNSCST - 1 team from Department of IT and 2 Team from Mechanical participated in the Final
65.	21.07.18	Other Events	Institution	Conducted Demo session on Infilbnet resources
66.	24.07.18	Statutory norms	Institution	Submitted the MHRD - SPoC Feedback
67.	24.07.18	Statutory norms	Institution	Completed the registration process of National Testing Agency (NTA) - Test Practice Centers (TPC)
68.	26.07.18	GL	CIVIL	Guest Lecture on 'Warm Mix Asphalt' by Prof. Dr. Meorothman Hamzah, University SAINS Malaysia
69.	26.07.18	HEC	Institution	Higher Education Seminar on 'Job Opportunities Through GATE Examinations' by Mr. S. Balamurugan,
70.	27.07.18	GL	IT	Guest Lecture on 'Advance Trends in Java Program & Real Time Product Development' by Mr.
71.	27.07.18	HEC	Institution	Higher Education Seminar on 'Overseas Opportunities' by Ms. Reshmy Vijay, CEO, Education Matters
72.	27.07.18	Seminar	MECH	Seminar on 'Innovative Design - LEAN Principle to Avoid the Scrapping of Materials' by Mr. Harish
73.	27.07.18	Workshop	CIVIL	Workshop on 'ETABS & TEKLA' by CADD CAM (3rd Year)
74.	27.07.18	Statutory norms	Institution	Received approval for DOTE GC Member
75.	28.07.18	GL	MECH	Guest Lecture on 'INSTITUTE to INDUSTRY' by Ms. Sabrin Fathima, HR Employee Relations, Renault
76.	30.07.18	GL	CSE	Guest Lecture on 'Cloud Computing' by Mr. Vivekanadha Pahi, Senior Associate, CTS (IV Year)
77.	30.07 - 01.07.18	EDC	Institution	Entrepreneurship Training Programme by TANSTIA FNF, Chennai
78.	30.07 - 03.07.18	FAR	ECE	Dr. A. Karthikeyan attended FDP @ Trichy
79.	30.07.18	HEC	Institution	Higher Education Seminar on 'Opportunities in UK' by Prof Atulya K. Nagar, Dean, Liverpool University,

80.	30.07.18	Workshop	EEE	Workshop on 'Electrical CADD' by Mr. Karthick, Trainer, CADD CAM (3rd Year)
81.	31.07.18	GL	MECH	Guest Lecture on 'Role of CFD in Industrial Product Development' by Mr. Piramanandhan, ESAB India
82.	01.08.18	HEC	Institution	Higher Education Seminar on 'Studies Abroad' by Mr. Amith Ravindran, Byjus
83.	02.08.18	GL	MECH	Guest Lecture on 'Design, Manufacture & Testing of Gear box' by Mr. Venugopal, Scientist, CVRDE
84.	03.08.18	HEC	Institution	Higher Education Seminar on 'Destination Abroad.. A Dream for all' by Ms. Raji Shankar - Master Trainer,
85.	06.08.18	GL	ECE	Guest Lecture on 'Microprocessor & Microcontroller' by Dr. Janarthanam Subramaniam, Senior Manager,
86.	06.08.18	Awards	Institution	AICTE INTERNSHALA RANKING 2018 Declared. Overall Rank 422 and Zonal Rank 172 out of 1574
87.	06.08.18	Statutory norms	Institution	SAGY - Applied for Village Development
88.	11.08.18	Statutory norms	Institution	NCSS - Submitted application to become Academic Advisor
89.	14.08.18	Research Fund	CSE	AICTE - ICITC International Conference Part 2 Fund released
90.	14.08.18	AICTE - CII	Institution	AICTE CII Survey 2018 - Submitted for the year 2017-18
91.	15.08.18	Other Events	Institution	Celebrated 72nd Independence Day
92.	16.08.18	Sports Achievemen		Students have won the 3rd Prize in Chess Tournament 2018-19 (Anna University Zone 1)
93.	16.08 - 17.08.18	FAR	MECH	Mr. Pushparaj / VM10425 attended Two Day E-Leader Workshop @ Anna University
94.	20.08.18	GL	BME	Guest Lecture on 'Recent Advancement In Medical Equipments' by Dr. Sapthagirivasan, Sr. Consultant,
95.	20.08.18	Statutory norms	Institution	Swachhta Ranking 2018 - Submitted the application
96.	20.08.18	Statutory norms	Institution	MHRD - Innovation Club - Submitted the application
97.	20.08 - 21.08.18	Placement Training	All Departme	Conducted 2 days Training program - TCS NINJA 2018 for all department Final year students
98.	21.08.18	Ind Visit	BME	Industrial visit to Sri Narayani Hospital Research Centre, Vellore.
99.	24.08.18	HEC	Institution	Higher Education Seminar on 'Opportunities Abroad' by Mr. Rajaram, Manager, IDP Education
100.	24.08.18	Bon Voyage	MECH	Student: Mr. R. Rakesh; BV Program conducted- International Technological University, USA

101.	24.08.18	Bon Voyage	MECH	Student: Mr. Yogesh S Pai; BV Program conducted- Technische Universitat Braunschwe, Germany
102.	27.08.18	GL	EEE	Guest Lecture on 'Electron Devices & Circuits' by Dr. Sridhar P. Arjunan, Research Fellow, RMIT
103.	27.08.18	Statutory norms	Institution	Submitted the NTA - TPC MoU successfully
104.	27.08.18	Statutory norms	Institution	Submitted the Anti Ragging Action Taken Report 2017 - 18 to Collectorate
105.	27.08.18	PMKVY - TI	Institution	PMKVY - TI 5 Projects got Selected (IT-2; BME-1; ECE-2)
106.	27.08 - 29.08.18	AICTE - FDP	Institution	Dr. Senthamarai (Assoc. Prof /S&H, MTS1397) and Dr. Celine Kavida (Assoc. Prof /S&H, MTS 1530) has
107.	28.08.18	GL	EEE	Guest Lecture on 'High Voltage Engineering' by Mr. D. Krishnamurthy, Senior Manager, HIQ Power
108.	28.08.18	GL	BME	Guest Lecture on 'Pathology & Microbiology' by Dr. Gnanamani, Scientist, CLRI, Chennai (II Year)
109.	29.08.18	Seminar	CSE	Seminar on 'Developing ANDROID with Object Oriented Concepts' Mr. Bhupal Reddy , Chue
110.	30.08.18	GL	BME	Guest Lecture on 'Digital Image Processing' by Dr. V. Sathiesh Kumar, MIT (IV Year)
111.	31.08.18	Ind Visit	CIVIL	Industrial visit to Sathanur Dam, Thirvanamallai (III Year)
112.	31.08.18	Workshop	MECH	Workshop on 'Enhanced Technologies Used in IC Engine' by Mr. B. Kovarasan, Managing Partner, i3
113.	31.08.18	Bon Voyage	IT	Student: Mr. Kaushik Prakash; BV Program conducted- University of LEEDS, USA
114.	01.09.18	Other Events	Institution	Conducted Induction Day program for the 2018 - 22 Batch students
115.	04.09 - 06.09.18	Other Events	All Departme	Conducted Yoga Program 'Yoga for Youth Empowerment' (I, II & III Year)
116.	05.09.18	Bon Voyage	MECH	Student: Mr. Sathish Kanna Ravichandran; BV Program conducted - Ediburgh Napier University, UK
117.	05.09.18	Other Events	Institution	Celebrated Teachers Day @ Vel Dr RR and Dr SR Convention Centre
118.	05.09.18	Other Events	Institution	VM observes "Worlds Charity Day"
119.	05.09 & 06.09.18	Ind Visit	MECH	Industrial visit to Ashok Leyland, Ennore (III Year)
120.	06.09.18	Statutory norms	Institution	Successfully registered for NIRF India Rankings 2018
121.	06.09.18	Autonomou s	Institution	Successfully submitted Proforma for fresh Autonomous to Anna University

122.	06.09.18	Autonomou s	Institution	Successfully submitted Advance Application for Autonomous to UGC
123.	08.09.18	Ind Visit	ECE	Industrial visit to Nippo Batteries, Thada (III Year A Sec)
124.	10.09.18	Bon Voyage	BME	Student: Mr. Vaishnavi; BV Program conducted - University of Ottawa, Canada
125.	11.09.18	Other Events	Institution	Conducted Idea Hamster 2018 Program @ Lord Palani Murugan Hall of Fame
126.	11.09.18	Other Events	Institution	Conducted Avvai Tamil Mandram 2018 Program @ Lord Palani Murugan Hall of Fame
127.	14.09.18	Statutory norms	Institution	Unnat Bharat Abhiyan - Applied for Village Adoption
128.	17.09.18	Workshop	CSE	Workshop on 'IoT Using Python' by Mr. Rajadurai Samuel, Technical Lead, HCL
129.	18.09.18	Ind Visit	ECE	Industrial visit to Sathish Dhawan Space Centre (SHAR), Sriharikota (III Year)
130.	19.09.18	Ind Visit	ECE	Industrial visit to BSNL - RTTC, Maraimalai Nagar (II Year)
131.	20.09.18	Ind Visit	CSE	Industrial visit to BSNL - RTTC, Maraimalai Nagar (II Year)
132.	20.09.18	Statutory norms	Institution	NIT-T Mentor Institution under AICTE (MARGDARSHAN) Scheme - Submitted the
133.	25.09.18	GL	CSE	Guest Lecture on 'Discrete Mathematics' by Dr. R. Suresh, Associate Professor, Department of
134.	25.09.18	Statutory norms	Institution	MHRD - Innovation Club for Higher Education Institution - Submitted the application
135.	26.09.18	Statutory norms	Institution	SAGY Initiative Awards 2018 - Submitted the Application
136.	26.09.18	Statutory norms	Institution	Anti Ragging Compliance - Submitted the Application
137.	26.09.18	ED Fund	Institution	DST-NIMAT Project 2018-19 - Received the ED Fund of Rs. 20000
138.	27.09.18	Ind Visit	EEE	Industrial visit to 400 KV Sub Station, Sriperumbudur (II Year)
139.	29.09.18	FAR	S & H	Dr. Senthamari / MTS1397 attended 1 - Day National Conference as Session Chair @ Sanghamam College of
140.	30.09.18	Academics	Institution	14th Graduation Day celebrated @ Convention Centre, VTMT
141.	03.10.18	Statutory norms	Institution	Unnat Bharat Abhiyan - Selected under the Top 15 Institution in the nation
142.	12.10.18	Autonomou s	Institution	Anna University Inspection for Autonomous Status

143.	15.10.18	Autonomou s	Institution	Received NOC from Anna University
144.	15.10.18	Autonomou s	Institution	Successfully Submitted Application for Autonomous to UGC
145.	16.10.18	Other Events	Institution	VM observes World Food day
146.	17.10.18	Other Events	Institution	Celebrated Ayudha Pooja
147.	17.10.18	Statutory norms	Institution	Successfully registered for Q.S. Gauge Peer Perception
148.	23.10.18	ED Fund	Institution	Hard copy of initial documents sent to DST-NIMAT Project 2018-19
149.	24.10.18	FAR	S & H	Mrs. Sreerekha / MTS628 attended BEC Annual meet on behalf of VM
150.	24.10.18	Innovation	MECH	Sivasankar / III year - Mechanical Department got selected for Cad Quest 18 final round.
151.	24.10.18	Innovation	CSE	Accenture Innovation Challenge 2018 - 1 Team from the Department of CSE participated in the Final
152.	24.10.18	Placement Training	MECH	ITK ZOHO Cloud Code Fest Contest 2018 - 1 Team from the Department of Mechanical won the Third
153.	25.10.18	Other Events	YRC	Conducted Awareness program on Child Abuse
154.	25.10.18	Academics	All Departme	Nov - Dec 2018 University Practical Exams started for 3,5 & 7 semesters.
155.	26.10.18	Statutory norms	Institution	Successfully registered for MHRD - Institutions Innovation Cell
156.	26.10.18	Other Events	S&H	Department of S&H conducted Mini Project Expo 2018 for the First year students.
157.	27.10.18	Awards	Institution	SEEE Awards - Successfully applied under 8 categories
158.	30.10.18	AICTE - PMKVY	BME, CSE, ECE	AICTE - PMKVY - Departments of BME, CSE, ECE & IT submitted the Phase I (Student Login details) report
159.	31.10.18	Statutory norms	Institution	Successfully registered for MHRD Atal Ranking of Institutions on Innovation Achievement (ARIIA)
160.	01.11.18	Academics	Institution	Nov - Dec 2018 University Theory Exams started for 3,5 & 7 semesters.
161.	04.11.18	Statutory norms	Institution	AICTE Digital Learning Environment in Higher Education online survey form submitted
162.	10.11.18	Other Events	Institution	VTMT conducted Career Guidance program WHIZ KIDS '18 for the Twelfth Standard School Students.
163.	13.11.18	Research	Institution	AICTE AQIS-submitted 8 proposals (RPS-3; STTP-5)

164.	14.11.18	Statutory norms	Institution	Anti-Ragging Action Taken Report 2018-19 - Soft Copy sent to DOTE
165.	15.11.18	Academics	Institution	The Department of CSE applied for Research Centre
166.	19.11.18	Academics	Institution	Anna University Rank Holders list released. VM hold 19 UG ranks and 2 PG ranks
167.	22.11.18	Statutory norms	Institution	Anti-Ragging Action Taken Report 2018-19 - Soft Copy sent to Anna University
168.	26.11.18 -	FAR	CSE	Dr.A.Kaladevi (Prof/CSE, MTS1733) attended FDP on Data Analytics- A Boot Camp @ SSN College of
169.	28.11.18	NIRF	Institution	Successfully submitted data for NIRF ranking 2019
170.	28.11.18	Surveys	Institution	Successfully submitted data for QS-I Gauge Ranking 2019
171.	28.11.18	Statutory norms	Institution	Successfully submitted data Unnat Bharat Abhiyan
172.	29.11.18 -	FAR	IT	U.Harshavardhini (AP / IT. MTS 1756), attended FDP at Rajalakshmi Engg. College on Sales Force
173.	29.11.18	Statutory norms	Institution	AICTE - PMKVY Survey Questionnaire submitted
174.	29.11.18	Statutory norms	Institution	Submitted details of Grievances Processed by the institute
175.	01.12.18	AICTE-CII	Institution	AICTE-CII Survey Results Released. VM got selected among 21 institutes which scored 55 and above marks
176.	05.12.18	Innovation	Institution	McAfee FAER Awards 2019 selected proposals released. 4 Projects from VM (BME-1, CSE-1, ECE-1,
177.	05.12.18	NBA	CSE & ECE	CSE & ECE has successfully uploaded SAR for NBA and acknowledgement received for the same.
178.	08.12.18	FAR	EEE	Dr.Deepthi Joseph (AP/EEE, MTS1695), attended Seminar for the EDP Incharge Training organized by
179.	10.12.18 -	FAR	EEE	Dr.Deepthi Joseph (AP/EEE, MTS1695), attended FDTP on Electrical Machines II @ R.M.K.C.E.T
180.	12.12.18	Workshop	Institution	SEBI conducted a Workshop for the Faculty members Scholars on Financial Education Workshop (WSO-67)
181.	10.12.18 -	FAR	MECH	Dr.Rajaravi (AP/Mech, MTS1760), attended FDP on Recent Developments in Engineering Materials &
182.	12.12.18	FAR	EEE	Ms.Akila (AP/EEE, MTS 1577), attended FDTP on Electrical Machines-II @ R.M.K.C.E.T
183.	12.12.18	Research	Institution	AICTE AQIS-submitted 3 proposals in MODROBS (CSE-1, ECE-1, Mech-1)
184.	15.12.18	GL	S&H	Guest Lecture on 'Basic Concepts of Differential Calculus & Integral Calculus' by Dr.V.Sundarapandian,

185.	15.12.18	AISHE	Institution	Successfully uploaded Anna University - AISHE 2018-19
186.	17.12.18	Academics	Institution	College reopens for U.G - 4, 6 & 8 Semesters and PG sem 4
187.	18.12.18	Surveys	Institution	Successfully Submitted online application for India Today - MDRA Best Colleges Ranking – 2019
188.	19.12.18	EDC	Institution	Seminar on "Elements of Entrepreneurship" was conducted for the Final Year students by INDIA Trust.

6.3.9 Admission of Students

The admission process is completely transparent. The eligibility and admission process is clearly specified in the prospectus. The single window system admission is done by Anna University as per the University rules and regulation. The seats under management quota are filled through another single window system through consortium of self-financing colleges in Tamil Nadu.

Government Quota

- Call for application by Anna University
- Ranking based on cut off mark
- Random number generation to resolve tie in cut off
- Seat allotment as per government reservation policy

Management Quota

- Online / Personal enquiry
- Mail Request
- Application scrutinize through consortium
- Admission

6.4 Welfare schemes for

Teaching Faculty

1. Cash award/13th month salary for Long standing staff
2. Gratuity
3. Group Insurance
4. Provident Fund
5. Mother's Fund
6. Festival Gift
7. Free Transport for senior faculty
8. Gift for Marriage
9. Marriage Leave

10. Staff quarters
11. Interest free loans (Staff welfare fund)
12. Free medical facilities
13. Free accommodation (hostel)
14. Traveling allowance
15. Maternity leave
16. Free Education for Wards of Employee
17. Extended Vacation holidays

Non Teaching Faculty

1. Group Insurance
2. Provident Fund
3. ESI

Students

1. **Cash Awards & Bonvoyage Function** for Students pursuing Higher Education and students going abroad for career development
2. **Gold Medals & Fees concession are awarded for toppers in University Exams**
3. Cash Awards for Best In-plant Training report submitted
4. Financial assistance for Project fabrication
5. **Coaching classes for the students** towards TOEFL, GRE, CAT, GATE, GMAT, NET and SET exams
6. Cash Awards to the winners in Paper Presentation and extra curricular activities
7. Providing Registration fee, TA/DA for participation in project competitions
8. **Cash Award with certificate for Best Projects**
9. Giving wide publicity to the college toppers by inscribing their name in Exam Cell
10. **Group Insurance** scheme for students
11. Fee concession for students on compassionate grounds
12. **On Duties (OD)** to participate technical events/ Quiz / Cultural/ sports
13. Providing sports dress to game/ sports participants
14. Class toppers are honoured by allowing them to hoist the flag on Independence and Republic Day

6.5 Total corpus fund generated

6.6 Whether annual financial audit has been done

Yes

No

6.7 Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External Academic Audit Committee	Yes	Internal Academic Audit Committee
Administrative	Yes	External Agency	Yes	Internal Auditors

6.8 Does the University/ Autonomous College declares results within 30 days?

Affiliated Colleges results will be published by Anna University

For UG Programmes Yes No

For PG Programmes Yes No

6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?

Not Applicable

6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

Not Applicable

6.11 Activities and support from the Alumni Association

Vel Tech Multi Tech Dr. Rangarajan Dr. Sakunthala Engineering College maintains an interactive bond with the alumni through which alumni activities and interaction takes place in huge extent. The Alumni Association of Vel Tech Multi Tech is registered with the registrar of societies. Alumni meet is conducted yearly once (Jan 26) where all of our alumni are invited and they will grace the occasion. Two or three alumni will be specially invited to make their presence as the chief guests for the alumni meet. This year alumni meet conducted on January 26, 2018 was also a great success with the alumni count.

Internal Alumni meeting was organized on 02.02.2018 at 2.00 pm in the Principal Conference Hall. The discussion centered on planning the activities and events of Alumni meet and to be organized by the institution.. Alumni data base updation and maintenance was the main theme of the meeting. With the perspective of bringing all alumni under one roof, it has been decided to take fruitful efforts to update information about our Alumni in the new website and registering for the event. Alumni coordinators have been informed to extend their co-operation in bringing out Alumni students from all departments.

Contributions of Alumni Association

- Alumni interact with the respective HODs and give them information regarding current trends and practices in the industries in which they work, so that suitable improvements in the infrastructure facilities can be made in the institution.
- Alumni also interact with the final year students and guide them in preparing for campus interviews in CORE/IT companies.
- Actively involved in guiding final year projects of relevance.
- Help the department to identify the industries for training, so that the students can undergo in-plant training.
- Arrange for visit to the industry where they are employed.
- Donate books to the department library.
- Act as ambassadors of the college to produce increase in the admissions.
- Interactive sessions in providing guidance regarding higher studies, competitive exams and placement for juniors.
- During campus recruitment, passed out students being familiar with the recruitment procedures give voluntary help to the current year students during the recruitment.

Alumni Communication Network

Facebook & Twitter Account

We are maintaining Facebook account named “VEL TECH ALUMNUS” for our alumni where it serves as a great platform to be in contact with our alumni by posting the institution updates regularly. We have also established our alumni communication through twitter <https://twitter.com/veltechmt> where our alumni shares their posts regularly.

Blogspot

We are using blogspot <http://veltechmt.blogspot.com/> to share the information about the events conducted, event photos and videos with the alumni.

E-Mail

E-Mail communication with alumni is also done on regular basis through alumni@veltechmultitech.org. Our alumni have come forward to help their juniors through placements. As our alumni are top designated all over the globe they help their juniors in terms of placements and also by sharing their industrial experiences which kindle their juniors industrialized exposure.

LinkedIn & Google+

As our alumni are our ambassador and stakeholders, we have also connected them through linkedin<https://www.linkedin.com/in/veltechmt>. Google+<https://plus.google.com/103448015905568392373> is also used as a medium for us to update our alumni with the latest news about the institutional events.



Whatsapp Group

To have seamless connectivity with our alumni, we have created a Whatsapp group named "VM ALUMNI" and the number is growing day by day. This Whatsapp platform paves a way for active participation of alumni by live chats, healthy discussions and knowledge sharing. Institution updates are posted via this social media and the views of alumni are carefully analyzed for the growth of the organization.



We are using blogspot <http://veltechmt.blogspot.com/> to share the information about the events conducted, event photos and videos with the alumni.



6.12 Activities and support from the Parent – Teacher Association

- Daily student attendance report sent to their parents periodically.
- The Internal tests and University exams mark of all students are sent to their parents periodically.
- Parent Login provided to every parents. Parents can view the overall activities of their wards in the college. The details include attendance, marks, club activities, disciplinary actions if any, etc. Each parent is given a username and password. Parents are given a demo about this usage during Induction Day
- Student can access class timetable, test timetable, topics covered, academic schedule, attendance, unit tests, model exam and university result via student login

6.13 Development programmes for support staff

- Non-teaching staff doing diploma courses and part time B.E. / B.Tech.
- Training courses for technical staff.
- Quality improvement program for Self development

6.14 Initiatives taken by the institution to make the campus eco-friendly

Introduction

Our college is having green environment with number of trees and there are many initiatives taken to make the environment eco-friendly. They are energy conservation, water harvesting, plantation etc.

Energy conservation

The following means are followed to achieve energy conservation in our campus.

- Class room power consumption is monitored. The appliances in the class room which are not required during the break time will be put off.
- The Incandescent bulbs are replaced with high efficient CFL bulbs.
- By making the awareness to the students and faculty members to use the energy sparingly.
- Rotary machines in the labs are to be periodically maintained.
- Energy saving motors are purchased.
- Use of CFL lights in the whole campus.
- The college classrooms are well lighted.
- In non-reading and non-working areas usage of lighting is reduced.
- Boards are displayed in every class rooms reminding students/ faculty to switch-off electrical appliances when not in use.

Use of renewable energy

The campus buildings are supported with solar power for alternative power supply. The hostel buildings are also provided with solar water heaters.



Water harvesting

Rain water harvesting is available in the institution. All the buildings in the campus are provided with rain water harvesting facility. The waste treatment plant is available in the campus. The treated water is used for non-drinking purposes. RO plants are made available to purify drinking water.



Efforts for Carbon neutrality

The college ensures that the vehicles owned by it regularly conducts carbon emission test. Use of tobacco and cigarettes are strictly prohibited inside the campus.

Plantations

Extensive plantation been done in the campus to make it as green campus. The campus is surrounded by the Mango trees, and numerous Neem trees are planted and maintained using the exit water from the bio-gas plant. Further, a nursery is developed in the campus to grow more plants and different varieties of flowering plants, trees and shrubs are planted around the campus.



Waste management

Solid waste management facility and sewage treatment plant is installed in the campus. Whenever programmes are arranged in the college, authorities ensure that the waste materials are taken away from the campus for safe disposal.

E-waste management:

The obsolete computers and other wastes generated from the electronic equipments are auctioned to authorized e-waste dealers and the hazardous materials in that equipment are removed and disposed as per norms. The old computers are also exchanged with new computers.

Conclusion

Hence the above given practices ensure that our campus is eco-friendly and pollution free providing a good environment for education.

Criterion – VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the Functioning of the institution. Give details.

- Student novel ideas are transformed into a project and which is converted to products there by developing the innovation mind of the student and setting a path by developing skills set.
- “Clean and Green environment is always important for healthy life” taking this part into account, the institution celebrated National Tree Day and planted many tree saplings in the campus.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

Through the periodical HODs meetings, Faculty meetings, Parents Meeting, and Governing Council Meetings, actions have been initiated as and when required to ensure the achievement of the plans set in the beginning. The necessary action plans are followed up through ISO auditing and academic audits also.

7.3 Give two Best Practices of the institution (*please see the format in the NAAC Self-study Manuals*)

1. Title of the Practice: Knowledge Resource Centre (KRC)

Goal

The goal of Knowledge Resource Center is to make the students aware of the project work done already and to enhance / extend with the support of latest technology.

- Allowing and encouraging the thought process of students with proven concepts.
- Enhance the completed project with compact design, less cost, more robustness, advanced technology and with latest features.
- To grasp the idea from the existing one and to apply the same for different kind of projects.
- To encourage effective facilitation.
- Students Projects with documents are displayed for the juniors.
- Useful for the juniors to extend/ enhance the already completed projects.
- Transformation of Experts/ Researchers view implemented as working model.
- Inspires the juniors to develop such working models as an outcome of the knowledge gained.

Context

The Knowledge Resource Centre is a repository where all the projects completed successfully are placed. This includes academic projects and the projects done as the outcome of Innovative Forum. The idea of keeping it in one place is to exhibit the same to the junior students, so that he or she can understand the technology of how the work has been implemented, issues faced during execution, various applications etc. This helps the students to think in the same line so that either the completed project can be extended or enhanced by incorporating new technologies/ algorithms/ protocols such that a better evolution in the product could be achieved.

Develop an evaluation plan

- The Project coordinators of every department will consolidate the list of projects completed successfully.
- Get the Project documentation both hard copy and soft copy in CD.
- The Project KIT packed neatly in an acrylic box engraving the names of students, their roll number, title of the project and the guide.
- This complete set is given to the faculty who is in-charge of KRC.
- The faculty in-charge will then display them in the KRC with proper indexing.
- Any student/ faculty can visit and get the details through proper channel.

Evidence of Success

The most important evidence of success is from the testimonials of the students. The students are happy with the availability of proven projects kits with the documents for the same. This also inspires the students to think in the same way for the extension/ enhancement of the completed projects. The students are very happy about the facility provided for better understanding and guidelines provided for the implementation of the skills that he/she has earned.

Problems Encountered

There are certain cases as mentioned below where the project kits could not be submitted by the students. If the students are doing the project for an industry, central government defence departments like CVRDE etc., it is not possible to submit their kits to the institution. In such cases, though the work is very novel and done with the help of experienced scientists on-site, latest equipment and facilities, they could not be showcased to the students due to obvious reasons.

Project list in annexure IV

2. Title of the practice: Innovative Forum

Objectives of the practice:

- Kindles the students thought process to develop solution for social challenges.
- Nurtures the ideas/ concepts discussed in Innovative forum to be developed as best projects.

- Encourage young talents in industry oriented research.
- Promote joint projects among Industry, Research Laboratories and Academic Institutions.
- Induce industry to take up further development on the recognized projects.

The context: The purpose of this system is to encourage the student to apply their skills which he/ she has gained during the course of his/her studies for the upliftment of the society in an economically viable and technically feasible manner. Moreover, as the projects are real time in nature, the students find it very interesting, explores the knowledge on allied field even if they have not studied in their course duration.

The practice:

Brainstorming sessions for the novel ideas are conducted with the presence of doctorates, researchers and senior faculty members. Once the projects are finalized, the Project Incubation/ Project development with the guidance of Doctorates, Professors or Industrialists. Regular reviews for the progress of project development with assessment are conducted regularly. Finally, the project demonstration for fine tuning the defects if any, is carried out. Once if the projects is ready with proper documentation, the students are asked to participate in various project competitions at State/ National / International levels. In such cases, the students are provided with registration fees for participation, TA & DA. Further, cash awards to the winners in paper presentation and extra-curricular activities are also given.

Evidence of success: The students have participated and won many prizes in state/ national and international event. The achievements such as IBM's "The Great Mind Challenge", Motorola projects award, ICTACT youth talk award etc., are the few examples for the success of Innovative forum. The projects such as Audio Translator, Dynamic Keyboard for ATM, Drainage Level Detecting System, Avoidance of air pollution in roadways due to Heavy Vehicles, Crankless Engine, Versatile Bicycle, Self-Compacting Concrete, Lay-Er, Poppers, Energy Theft Identification, Smart exam system for visually challenged and Solar power optional robot system are some of the successful projects done as an outcome of Innovative forum.

Problems encountered: There are certain areas where even if the idea is very novel and addresses the urging need of the societal challenges, the concepts could not be carried out due to lack of concerned expertise, lab facility, cost to implement the projects etc., in such cases but those projects are referred to the R&D committee where the doctorates/ researchers will prepare the project proposals and send it to the funding agency for necessary funding.

Innovation Participants list in annexure V

3. Patent Filing

Objectives of the practice:

- Promote innovation via the reward granted to the inventor

- Promote technology diffusion via publication and access to patents documents
- Promote international transfer of technology via international filings
- Promote transfer of technology via contractual mechanism
- Promote wealth creation via the economic value of exclusive rights
- Promote competition via innovations behaviours
- Promote access to technology via public domain

The context:

The purpose of this system is to help the students to promote high quality patents by ensuring that patent protection is provided only to inventions that are new, involve an inventive step and are capable of industrial application.

The practice:

- Department Innovation Coordinator to discuss with Head of the Department and Project coordinator
- The Project coordinator will communicate with the Students and the Internal Project Guides
- The Title for the patent to be filed will be finalized by the Overall Innovation Coordinator
- The Department Innovation Coordinator and Internal Project Guide will jointly work together and prepare the required documents for filing process
- The Overall Innovation Coordinator will receive the reports pertaining to Patent filing
- The Overall Innovation Coordinator will file the Patents as per the norms

Evidence of success:

Institution has received the 1st place this year in the Anna University Intellectual Property Rights Award-2017. We have received this award for having filed 51 patents in the academic year, 2016-17.

In the current academic year, 2017-18 we have already filed 75 patents and we propose to file another 75 patents before the end of the academic year, 2017-18.

Patents Filed list in annexure VI

7.4 Contribution to environmental awareness / protection

Yes, The institution formally conducts Green Audit, and is Eco Friendly. Greenery and plantation across the Institution is well maintained by the gardeners.

7.5 Whether environmental audit was conducted? Yes No

7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

1. More than 1000 research papers has been published and presented in International / National Journal / Conferences by the Faculties and the Students over the last 3 years. In this year the Scopus Journal Publications count have been increased greatly by 50%.

2. Value added and Skill development courses have been organized for student's academic enrichment to cater the needs of the organization.

1. Plans of Institution for next year

1. We emerge as the leading institution in creating & innovating new products through the Innovation Cell of the Institution
2. To upgrade the hostel campus with enhanced facilities such as Squash, Billiards Lounge Table.
3. To generate more research funds to the Institution.
4. To cultivate aggressively the Entrepreneurship Development Cell by motivating the students right from the 1st year and moulding him to the extent of developing a product with the knowledge of business proposals towards his Final year through Entrepreneurship Development Cell
5. To enhance the student centric activities in training and effectuate such programs towards successful placement of the students in core companies.
6. To continue providing the best Training possible from students enhancing the Career Counselling Activities
7. To continue providing students with scholarships for pursuing higher studies abroad and also enriching them with the knowledge of Higher Education opportunities
8. To continue in helping students get scholarship for studying abroad.
9. To Tie-up with foreign universities to enhance students for higher education.
10. To continue the efforts through social networks or electronic media to actively engage with alumni.
11. To continue with creating more opportunities for alumni to spend time on campus and engage with students and faculty
12. To enhance and improve access to our campus for state examinations, outreach programs and other governmental initiatives.

Name: Prof. K. A. Harish
Coordinator

Name: Dr. V. Rajamani
Principal

Signature of the Coordinator, IQAC

Signature of the Chairperson, IQAC
