



VISAKHA

INSTITUTE OF ENGINEERING & TECHNOLOGY

(Affiliated to JNTUK, Kakinada)

DIPLOMA | ENGINEERING | MANAGEMENT

STUDENT HANDBOOK

57th Division, Narava, Visakhapatnam

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Note: While every effort has been made to ensure that this book is accurate and up to date, it may include typographical or other errors. Changes are periodically made to this publication and will be incorporated in new editions.

ABOUT VIET

The creation and transfer of knowledge should reflect a profound and complete respect for the dignity of all persons and for the greater common good of humanity. To that end, our vision is to give our society and nation a bunch of skilful engineers and to occupy a place amongst the most eminent institutions of the Nation.

VISION:

The Visakha Institute of Engineering & Technology College serves the nation and the world by regulating talented, broadly educated engineers, conducting high quality research, developing infiltrate technologies, and propagating and preserving technical knowledge.

MISSION :

To be the best at serving society by creating engineering knowledge and educating engineers for dynamic and global careers. The following strategic characteristics and aspirations enable the College to realize its vision:

- Modern and precise educational experiences that developed the engineer and something more
- An atmosphere that facilitates personal commitment to the educational success of students in an environment that values multiplicity and society
- Education and research partnerships with Universities, colleges and industries
- Highly successful alumni who contribute to the profession in the global society
- Undergraduate and Post graduate programs that integrate global awareness, communication skills and team building across the curriculum
- Practical and responsible resource management;
- Training that prepares students for interdisciplinary engineering research and advanced problem solving
- Leadership and service to meet society needs.

AIMS & OBJECTIVES:

Goals

- To be among the top hundred institutes of the country in the next 5 years and be an Autonomous Institute.
- To be a student centric institute, where academics is followed with utmost passion and sincerity.
- To attain a faculty to student ratio of 1:15 and 1:12 within 2 years respectively.
- To be a campus where every faculty possesses Ph.D degree, within 5 years.
- To establish Incubation research centre.

Students:

Student admission (Input Quality) will be Addressed through:

- Integrated Campus
- An Improved communication network

All around Development of students through:

- Student Activities of master Plan
- Emphasis on extra-curricular program for students.
- Centralized Student Services.
- Improved Academic Advising System.

Post Graduate needs (Placement/higher Study) of student through development of:

- Career services center (placement and career development)
- Improved Alumni Services.

Academics:

- Increase Bachelor's Degree Programs.
- Introduce Master's Programs.
- Continue the Development degree programs using the continuous quality improvement process.
- Recruit and retain qualified faculty.
- Develop immersion programs appropriate for market.
- Emphasize on Research Activities

Focus	Objective
Academics	1. To offer academic flexibility by means of Choice based credit Systems and the like. 2. To identify and introduce new specializations and offer programs in emerging areas. 3. To incorporate into the curriculum the Application orientation and use high standards of competence for academic delivery. 4. To design and implement educational system adhering to Outcome based International models. 5. To introduce and implement innovation in teaching and learning process to strengthen academic delivery. 6. To offer academic programs at UG, PG, doctoral, Post- Doctoral which are industry focused, and incorporates Trans- discipline, inter-discipline aspects of the education system 7. To deliver higher education that includes technologies and meeting the global requirements
Research	8. To promote inter-disciplinary studies and create needful facilities that enhance inter-disciplinary research and innovation 9. To create an ambience that is conducive for undertaking sponsored research, internal funded research and offering consultancy services to wide spectrum of originations 10. To establish centres of excellence in frontier areas of research, and design innovation centres with industry collaboration. 11. To create environment to innovate and incubate the products and services that addresses the societal requirements 12. To integrate research into all academic programs. 13. To maintain high standards in achieving research outcomes. 14. To promote International conferences / Seminars /Workshops / in collaboration with professional bodies for creation of avenues for research exchange.
Extramural and extension	15. To generate means and avenues for carrying out extramural research for Industry and Academic. 16. To organize extension activities covering literacy promotion, health awareness and improve the living standards of community. 17. To make the research outcomes useful and applicable for the societal needs

Infrastructure	<p>18.To promote and maintain state of the art facilities for academic delivery, research and co & extra-curricular facilities and develop congenial and eco-friendly fully residential campus.</p> <p>19. To create and strengthen focused and modern infrastructure that address the national needs through generation of dedicated funds from Industry, Government and research organizations.</p>
Equity / Access	<p>20.To provide and promote the opportunities to higher education to socially deprived communities and remove disparities by promoting women, differently baled and socially deprived</p> <p>21.To provide equal access to meritorious both in terms of admissions and financial support</p>
ICT	<p>22. To lay emphasis on effective usage of ICT, WEB –resources and train the faculty on the latest advancements thereof and develop effective content.</p> <p>23. To develop and maintain world class ICT infrastructure and lay emphasis on its effective usage, extend regular training to both faculty and students on its latest advancements there by ensure interactive academic delivery.</p>
Examinations and evaluations	<p>24. To introduce reforms in the examination and evaluation system That brings out knowledge application skills and competencies of the students and ensures transparency.</p>
Ecology and Environment	<p>25. To Build into curriculum, issues related to social awareness about Ecology and environment towards achieving greener society.</p>
Linkages	<p>26. To promote collaborations with international and national organizations for advancements of academics, research, Technology transfer and Intellectual property rights.</p> <p>27. To Indigenize the global technological solutions and develop the products, and services that transforms the standard of living of rural India.</p> <p>28. Design new products and services that address commercially attractive needs and opportunities while leveraging the available resources in the form of un-employed and under-employed Individuals</p>
Employability	<p>29. To provide skills through curriculum and training that are essential in fostering entrepreneurial thoughts, employability prospects and at the same time provides necessary support for incubating the innovations and assisting them for prospective Commercialization.</p> <p>30. To provide necessary business infrastructure that allows attracting and sustaining the industry to commence their business establishments within the College Campus and aid in lifelong sustenance of employment.</p> <p>31. To develop industrial cluster that helps the students to start their industry after incubating the products at the incubating centres which will create Jobs</p> <p>32. To develop National depositories for meeting the goals of National skill development council</p> <p>33. Train people to profile neighbourhood and communities for the needs and commercial opportunities that will support financially sustainable new businesses.</p>
Governance	<p>34. To institute measures for transparent administration that aid in improving efficiency, accountability and reliance.</p> <p>35. To comply with regulations of all the statutory bodies.</p> <p>36. To install professional managers who are global visionaries, thought leaders, and thinkers into the management of the College so as to contribute to the</p>

	ideals of the College system
Quality	<p>37. To continuously upgrade the faculty in curriculum design, teaching pedagogy, usage of ICT and various processes pertaining to academics, research and College administration</p> <p>38. To develop mechanism that attracts talented, qualified and experienced faculty from across the globe for pursuing their academic and research careers at the College.</p> <p>39. To consider and implement norms, metrics, standards, procedures and benchmarks for assessing and improving the quality in every aspect of College system and achieve quality certifications by National and International bodies.</p> <p>40. To establish Internal quality Assurance cell (IQAC) and install a quality systems that is integral part of all the College processes</p> <p>41. To continuously upkeep overall quality of the College based on aspects of regular feedback from the stake holders</p> <p>42. To improve the quality of faculty through faculty incentives, awards and recognitions</p>
Value orientation	<p>43. To mold the students to possess professional ethics, moral values and intrapersonal skills that shape them into effective leaders and who are having the thoughts of equality and unanimity towards all walks and sects of life.</p> <p>44. To inculcate the self-consistency, self-reliance and self- learning qualities for shaping the students to lead their life on their own.</p> <p>45. To sharpen the critical thinking and reasoning skills by making students tackle problems and ideas that are yet to be tackled through application of their intellectual discovery.</p> <p>46. Developing the students towards human intellectual achievement and make them rich in cultural experience</p> <p>47. Students to be encouraged and provided with necessary support enabling them to choose and pursue careers of their choice & interest that make them professionally satisfied.</p>
National development	<p>48. To expand the College in all its modes of delivery so as to contribute to the Nation's increase in Gross Enrolment Ratio</p> <p>49. To align the academic programs and courses to match the requirements of the National goals</p> <p>50. To develop technology that helps sustainable socio economic development</p>

FACILITIES:

Central Library: E-Resources

The Central Library is the largest, and holds materials to serve the whole College community. It has materials relevant to the Engineering, Science & Humanities courses offered by the College. The library system contains more than one lakh and fifty thousand books and periodicals on all subjects related to the teaching and research interests of the College staff and students. The library has over 4,500 electronic journal titles, academic databases and 5000 eBooks. Access is available on campus on student computers and remotely. A new library building will be opened shortly on par with international standard with modern IT facilities. Every department of the college maintains their library to cater the needs of students and faculty. All foreign and Indian journals are

made available in the department library for the convenience of faculty and students. The libraries render following library services

Circulation of library documentary:

- Photo copying services
- Reference Service
- Book bank facility
- CD – ROM search services
- Inter Net Services

The Data Center:

A State-of-the-Art Data centre with advanced servers provides highly interactive learning environment with full-fledged hardware and software training facilities.

Hardware:

The configuration of high end stream of servers that provides various services is Super Computer HPC Infrastructure (Super Computer).

SPECIAL LABORATORIES:

The institute is equipped with various Industry Collaborated Lab:

S.No.	Discipline	Name of the Lab	Research Group Associated
1	Computer Science and Engineering	CISCO	Computer Networks and security
2	Computer Networks and security	IBM	Software Engineering
			Knowledge Engineering
3	Electronics Communication Engineering	NI Lab View	Communications Systems

Physical Education- Sports Facilities:

VIET encourages students to explore their latent talents by providing good games and sports

Facilities.

The institute is equipped with the following:

- Badminton Courts -4
- Netball Courts – 2
- Hockey Field
- Throw ball courts – 2
- Athletic track

- Football Field
- 12 Tenni-koit Courts -2
- Basketball Courts – 2
- Cricket Field with Net
- Kabaddi Courts – 2
- practice - 3 Volleyball Courts -4
- Table Tennis – 6
- Tennis Courts – 2
- Chess
- Handball Court
- Caroms

The Girls Hostel

- The girl's hostel is next to the campus. Different rooms accommodating 2 per room, 3 per room with attached toilets as well as A.C. rooms are available. Suite rooms with modern furniture and separate study room are also available.

The Boys Hostel

- It is a short walk from the college. Different rooms accommodating 2 per room, 3 per room with attached toilets as well as A.C. rooms are available.

Hostel Rules & Regulations

- Students are hereby informed that while staying in the hostel, it is essential to be responsible in maintaining dignity by upholding discipline. They must be obedient to the hostel warden/floor in – charges.
- Valuable items like jewellery etc., should not be kept with students while staying in the hostel. It is student's own responsibility to safeguard her/his Laptops, Money by locking suitcases and bags. If any loss is found, management will not take any responsibility.
- Student has to intimate to the hostel authorities before you giving police complaint against losses.
- Students are not allowed to indulge in smoking, consumption of Alcohol, Narcotic drugs etc., and defaulters will be strictly viewed upon.
- Students are directed that after locking their rooms they have to hand over the keys to security and can collect them on returning back to the hostel.
- Students must switch off Fans, Lights, Geysers, A/C's etc., before leaving their rooms. Visitors are not allowed inside the hostel at any time, however they are allowed into the visitor's hall with the prior permission of the warden. Only family members listed by the parents are allowed to contact the student. Visiting hours are up to 7.30 pm only and after 7.30 PM visitors are required to leave premises.

Transportation:

- The institution runs 6 buses covering all the important points in Visakhapatnam City.
- Transport is available 24 hrs in case of any emergency in the institute / hostels.
- Transportation is available for conducting industrial tours and visits etc.

Health Centre

- A full-fledged health center with all the facilities is established to cater to the needs of the students, staff, Faculty and to the general public in the adopted villages. It consists of one doctor.

Cafeteria

- College has a spacious canteen with latest equipment and hygienic environment which provides quality food and prompts service and caters to needs of all the students and the staff.

Placements:

VIET has meticulously planned to make all its outgoing students employed. The College had installed the infrastructure, employed well experienced faculty, designed and delivered programs that help enhancing the communication and soft skills which are required for making the students employable. An excellent system is in place that considers all the issues that make a student employable. The College has been successful for the last 10 years, in employing all the students who have registered and eligible for placement through its offices located across the country. Our trained personnel work extensively to make the students ready for recruitment by the Industry.

Counselling & Career Guidance

A special Counseling Cell consisting of professional student counselors, senior professors counsels/helps the students in preparing themselves to cope with studies, perform well in the tests & various competitions. This Cell provides its services to the students in getting the solutions for their personal problems and also provides career guidance with the help of Industrial Relations and Placements (IRP) department. A group of students are allotted to a senior faculty member who counsels them regularly and acts as their mentor.

Social Service Wing

College has a social service wing which is used to channelizing the social service activities of the faculty, the staff and the students. It conducts activities like medical camps, literacy camps in the nearby villages and educates the villagers regarding hygiene and health care on a regular basis.

NSS Wing of Institute

Regularly organizes Blood donation camps, Blood grouping camps, Fund collection and distribution to poor children and old age homes, distribution of old clothes and free medicines to slum dwellers, tree plantations, AIDS awareness program, teaching basic computer skills to a target group of 500 people in villages.

Life Skills and Inner Engineering

College feels that it is its responsibility to mould the students as good human beings contributing to the country and to the society by producing responsible citizens. Along with the regular programs every student admitted into VIET undergoes a one week special life skills /orientation program. Through this program, VIET is producing the students with the clarity of thoughts and charity at hearts. Strict regularity, implicit obedience, courtesy in speech and conduct, cleanliness in dress and person is expected of each VIET student. Life skills and inner engineering teach a student his/her obligations towards GOD, himself /herself his/her country and fellow human beings. Every student is encouraged to practise his/her own religious faith and be tolerant and respectful towards other religions.

Technical & Cultural Festival

VIET organizes various programs for the all round development of the students. The technical festival and project exhibition is being organized in the even semester (March) every year to elicit the innovative ideas and technical skills of the students.

VIET ADMINISTRATION: G.SATYANARAYANA (CHAIRMAN)



We provide an exchange of students and faculty and encourage joint research projects for the mutual benefit of these universities. Many of our students, who pursue their research projects in foreign universities, bring high quality to their work and esteem to India and have done us proud. With steady steps, we continue our march forward. We look forward to meeting you here at VIET.

The Vision of the management is to ensure high quality education by building and running institutions par excellence in the fields of engineering, management, and applied Sciences, by equipping the students with latest techniques and makes them role models in their chosen fields. The aim is to enable them to reach greater heights and also to inculcate ethical values and discipline in them, thereby, help them become good and useful citizens of India.

Rapidly developing society in an ever changing world. We have been always striving for innovation and creativity in every step forward. We believe that students are the brand ambassadors of the institution and we are committed in putting the student's interest in the

forefront of every activity. The College is recognized by AICTE and being autonomous, has a dynamic curriculum that is based on the ever changing business environment. It has set out to provide wholesome education in and outside the lecture room, with almost 50% of activity based learning. The quality of education offered by the college enables students to grow in a holistic manner with a practical bent of mind.

Dr.Y.Prasanna Kumar(PRINCIPAL).



PRINCIPAL's Message:

Vision of Visakha Institute of Engineering & Technology is to commit itself to maintaining high educational standards and to groom students as to global leaders having sound technical, ethical and spiritual knowledge by attracting strong leadership & distinction faculty to a center of excellence.

ACADEMIC REGULATIONS FOR B.Tech PROGRAM

This document supplements the College's rules and regulations to provide assistance to all B.Tech students. It is required that every individual has to abide by these regulations.

TERMINOLOGY

Academic Council: The Academic Council is the highest academic body of the College and is responsible for the maintenance of standards of instruction, education and examination within the College. Academic Council is an authority as per UGC regulations and it has the right to take decisions on all academic matters including academic research.

Academic Year:

It is the period necessary to complete an actual course of study within a year. It comprises of two consecutive semesters i.e., Even and Odd semester.

Audited Course: It is a course of study which neither has evaluation component nor a grade.

Backlog Course: A course is considered to be a backlog course if the student has obtained a failure grade (F).

Basic Sciences : The courses of foundational nature in the areas of Mathematics, Physics, Chemistry, Biology etc., are offered in this category.

Betterment : Betterment is a way that contributes towards improving the students' grade in any course(s). It can be done by either (a) re-appearing or (b) re-registering for the course.

Board of Studies : Board of Studies (BOS) is an authority as defined in UGC regulations, constituted by Vice Chancellor for each of the department separately. They are responsible for curriculum design and update in respect of all the programs offered by a department.

Branch of Study:

It is a branch of knowledge, an area of study or a specific program (like Civil Engineering, Mechanical Engineering, Electrical and Electronics Engineering etc.)

Certificate course: It is a course that makes a student gain hands-on expertise and skills required for holistic development. It is a mandatory, non-credited course for the award of degree.

Compulsory course: Course required to be undertaken for the award of the degree as per the Program.

Course:

A course is a subject offered by the College for learning in a particular semester.

Course Handout:

Course Handout is a document, which gives complete plan of the course. It contains the details of the course viz. Course title, Course code, Pre-requisite, Credit structure, team of instructors, Course objectives, Course rationale, Course Outcomes and the relevant syllabus, textbook(s) and reference books, Course delivery plan and session plan, evaluation method, chamber consultation hour, course notices and other course related aspects. In essence, course handout is an agreement between students (learners) and the instructor.

Course Outcomes:

The essential skills that need to be acquired by every student through a course.

Credit:

A credit is a unit that gives weight to the value, level or time requirements of an academic course. The number of 'Contact Hours' in a week of a particular course determines its credit value. One credit is equivalent to one lecture hour per week or two hours per week of tutorials/ self learning/ practical/ field work during a semester.

Credit point:

It is the product of grade point and number of credits for a course.

Credit Transfer:

The procedure of granting credit(s) to a student for course(s) undertaken at Another institution.

Cumulative Grade Point Average (CGPA) :

It is a measure of cumulative performance of a student over all the completed semesters. The CGPA is the ratio of total credit points secured by a student in various courses in all semesters and the sum of the total credits of all courses in all the semesters. It is expressed up to two decimal places.

Curriculum:

Curriculum incorporates the planned interaction of students with instructional content, materials, resources, and processes for evaluating the attainment of Program Educational Objectives.

Degree:

A student who fulfils all the Program requirements is eligible to receive a degree.

Degree with Specialization: A student who fulfils all the Program requirements of her/his discipline and successfully completes a specified set of Professional elective courses in a specialized area is eligible to receive a degree with specialization.

Department:

An academic entity that conducts relevant curricular and co-curricular activities, involving both teaching and non-teaching staff and other resources.

Detention in a course:

Student who does not obtain minimum prescribed marks in continuous In-semester evaluation and /or minimum prescribed attendance in a course shall be detained in that particular course.

Dropping from the Semester :

A student who doesn't want to register for the semester should do so in writing in a prescribed format before commencement of the semester.

Elective Course :

A course that can be chosen from a set of courses. An elective can be Professional Elective, Open Elective, Management Elective and Humanities Elective. **Engineering Sciences:** The courses belonging to basic evolutionary aspects of engineering from Mechanical Sciences, Electrical Sciences and Computing like Engineering Mechanics, Data structures, Network Theory, Signal Analysis etc...

Evaluation:

Evaluation is the process of judging the academic work done by the student in her/his courses. It is done through a combination of continuous in-semester assessment and semester end examinations.

Grade:

It is an index of the performance of the students in a said course. Grades are denoted by Alphabets.

Grade Point:

It is a numerical weight allotted to each letter grade on a 10 - point scale.

Humanities Elective:

A course offered in the area of Liberal Arts.

Industrial Training:

Training program undergone by the student as per the academic requirement in any company/firm. It is a credited course.

Industrial Visit :

Visit to a company/firm as per the academic requirement.

In-Semester Evaluation :

Summative assessments used to evaluate student learning, acquired skills, and academic attainment during a course.

Management elective A course that develops managerial skills and inculcates entrepreneurial skills.

Mini project :

Mini Project is a credit-based course that a student has to undergo during his/her academic term, which involves the student to explore in a discipline belonging to their research interest within their program area.

Pre-requisite :

A course, the knowledge of which is required for registration into higher level course.

Professional Core:

The courses that are essential constituents of each engineering discipline are categorized as Professional Core courses for that discipline.

Professional Elective :

A course that is discipline centric. An appropriate choice of mini number of such electives as specified in the program will lead to a degree with specialization.

Program :

A set of courses offered by the Department. A student can opt and complete the stipulated minimum credits to qualify for the award of a degree in that Program.

Program Educational Objectives:

The broad career, professional, personal goals that every student will achieve through a strategic and sequential action plan.

Project:

Course that a student has to undergo during his/her final year which involves the student to undertake a research or design, which is carefully planned to achieve a particular aim. It is a credit based course.

Project based laboratory:

Project Based Laboratory is a student-centric learning methodology that involve students in design, problem-solving, decision making, and investigative activities; gives students the opportunity to work in teams, over extended periods of time; and culminate in realistic products or presentations

Registration :

Process of enrolling into a set of courses in a semester/ term of the Program. **Re Registering:** A student desiring to repeat a course is permitted to do so, subject to the regulations contained herein.

Semester:

It is a period of study consisting of 15 to 18 weeks of academic work equivalent to normally 90 working days including examination and preparation holidays. The odd Semester starts normally in July and even semester in December.

Semester End Examinations:

It is an examination conducted at the end of a course of study.

Social Service:

An activity designed to promote *social* awareness and generate well-being; to improve the life and living conditions of the society.

Student Outcomes:

The essential skill sets that need to be acquired by every student during her/his program of study. These skill sets are in the areas of employability, entrepreneurial, social and behavioural

B. Tech Programs

The students are admitted into 4- year full time B. Tech Programs as enlisted in this section.

The student is awarded a B.Tech Degree provided she/he

- a) Must successfully earn minimum of 165-175 credits, as stipulated in the program structure.
- b) Must successfully complete a minimum of five (5) Professional Elective Courses, out of which three (3) must be from 3 different specialization areas offered by the program. However, in case of

the program offering less than 3 specialization areas, s/he can complete more than one professional elective course from each of the specialization area but must ensure that s/he has completed a minimum of one course from each specialization area offered by the program.

- c) Must successfully complete five (5) open electives courses
- d) Must successfully complete three (3) certificate courses (four (4) in case of CSE students in discipline domain areas, in addition to one from yoga / sports & games / fine arts.
- e) Must successfully complete the term paper and Minor Project.
- f) Must successfully complete the industrial training (internship) of four weeks duration.
- g) Must successfully complete Major project or practice school.
- h) Must have successfully taken social service activities for a minimum duration of 30 hours starting from 3rd semester onwards
- i) Must have successfully obtained a minimum CGPA of 4.5 at the end of the program.
- j) Must have finished all the above-mentioned requirements in less than twice the period mentioned in the Academic structure for each program, which includes deceleration period chosen by the student, deceleration imposed by College or debarred from the College.

The following B.Tech Degrees are offered by the VIET.

Bachelor of Technology in Electrical and Electronics Engineering (EEE)

Bachelor of Technology in Mechanical Engineering (ME)

Bachelor of Technology in Electronics and Communication Engineering (ECE)

Bachelor of Technology in Computer Science and Engineering (CSE)

Bachelor of Technology in Automobile Engineering (ME)

M. Tech Programs

Master of Technology in Power Systems

Master of Technology in Computer Science and Technology

Master of Technology in VLSI

PG Programs

Master of Business Administration (Finance)

Master of Business Administration (HR & Marketing)

Evaluation process:

Attendance Policy:

In every course, student has to maintain a minimum of 75% attendance to be eligible for appearing in Semester end examination of the course, for cases of medical issues and other unavoidable circumstances the students will be condoned if their attendance is between 65% to 75% in every course, subjected to submission of medical certificates, medical case file and other needful documents to the concerned departments. However in case of a student having less than 65%

attendance in any course, She/He shall be detained in the course and in no case such process will be relaxed.

Detention policy:

a) In any course, a student has to maintain a minimum of 75% attendance and must secure a minimum of 40% marks in In-Semester Examinations to be eligible for appearing to the Semester End Examination, failing to fulfil these conditions will deem such student to have been detained in that course.

b) However the following are the special cases where the lack of attendance can be condoned:

i. Up to a maximum of 10% on medical grounds, in which case the student must submit

the medical certificate from any recognized medical practitioner.

ii. Up to a maximum of 10% if the student represents the College / State / Country in any Extra / Co-curricular activities.

Semester end examination:

a) The minimum weight age for Semester End Examination is 50% of the aggregate marks in the ratio of credits allotted for Lecture (L) +Tutorial (T) to Practical (P).

b) The pattern and duration of such examination will be decided and notified by the Course Coordinator through the Course handout, after approval from the Dean Academic.

c) In order to maintain transparency in evaluation, answer scripts will be shown to the students for verification upon request. If there is any discrepancy in evaluation, the student can request the course coordinator to re-evaluate.

B.Tech PROGRAM CURRICULUM

For an academic program the curriculum is the basic framework that will stipulate the credits, category, course code, course title, course delivery (Lectures / Tutorials / Practice / Project/ Self Study / Capstone Design etc.), in the Choice Based Credit System. However all such are essentially designed, implemented and assessed on Outcome Based Education Framework.

Course Structure

a) Every course has a Lecture-Tutorial-Practice (L-T-P) component attached to it.

b) Based upon the LTP structure the credits are allotted to a course using the following criteria.

i. Every lecture hour is equivalent to one credit.

ii. Every Tutorial/Practice hour is equivalent to half credit.

iii. If the calculated value of credit is a fraction, it is rounded to the lower number.

4.3 Course Classification

Any course offered under B.Tech program is classified as:

a) Compulsory Courses

- i. Basic Sciences
- ii. Engineering Sciences
- iii. Humanities
- iv. Professional core

b) Elective courses:

- i. Professional Elective
- ii. Open elective
- iii. Management elective
- iv. Humanities and Social science Elective

Gap Year:

Gap year concept is introduced from academic year 2015-2016 to promote entrepreneurship where the students can take one year gap in between to start entrepreneurship and can come back and rejoin for continuation of the course after first year onwards.

Start-up Team:

Start up programmes is introduced from academic year 2015-2016 with a team of students' upto 7 including 1 girl student to incubation centre. At the end of the semester 5 grace marks and 20% attendance will be given.

MooC Course:

The mooc courses are introduced from academic year 2015-2016 where the student is required to take minimum of any 2 mooc courses and maximum of 4 mooc courses preferably from the list given or other relevant mooc courses not given in the list.

Internship/Project work:

One full-semester internship is introduced from academic year 2015-2016 and the work carried out during internship is also considered as project work for the course. A viva-voce examination is to be conducted by a committee consisting of Head of the department of respective department and the external examiner.

M.Tech PROGRAM CURRICULUM

Semester – I & II: Theory and practical

courses Semester III and IV : Thesis Work

The valuation of the thesis credits should be allotted but for the calculation of CGPA these credits will not be taken into consideration. Candidates can do their work in the department or in any

industry/research organization for two semesters (ie 3rd and 4th semesters). In case of thesis work to be done in an industry/research organization, the advisor/advisors should be from the industry/research organization. It is mandatory that two seminars at least one per semester related to thesis work/ general topic in III and IV semesters and publication of a paper in conference proceeding/communicated to Journal for the submission of the Thesis at the end of 4th Semester.

At the end of 4th semester, four bound copies of the thesis are to be submitted to the department, out of which 2 to be retained by the department for evaluation purpose. The thesis is to be evaluated by an examiner external to the University with minimum M.E./M.Tech qualification with relevant specialization and must have minimum 5 years of experience in service.

A Viva-voce examination is to be conducted by a Committee consisting of Head of the department of respective college, Chairman, Board of Studies, the External Examiner who evaluates the thesis and the Advisor of the thesis, after receiving the evaluation report from the External Examiner.

In case the advisor happens to be HOD or Chairman, Board of Studies or from industry/research organization one more member from the department with relevant specialization is to be recommended as examiner by Chairman, Board of Studies for Viva-voce examination.

The Board will submit a report stating whether the thesis is approved or not approved with marks out of 100.

CATEGORY-B ADMISSIONS

Admission form for admissions into B.E. / B.Tech /M.E. / M.Tech / MBA / **Category-B** seats.

A candidate should possess the eligibility of 10+2 qualification from Board of Intermediate, Government of Andhra Pradesh & Telangana with Mathematics, Physics and Chemistry as his/her optional subjects, or any other equivalent examination recognized as equivalent there to.

- A student to step in four-year degree course in Engineering except NRI quota must qualify in **Engineering, Agricultural Sciences And Medical Common Entrance Test (EAMCET)**, a State-Level Entrance Test conducted by the Govt. of Andhra Pradesh. Students who qualify in EAMCET entrance test will be admitted strictly on merit bases.
- The Convener of EAMCET admits on merit secured in Intermediate or an equivalent examination and the rank secured in EAMCET.
- The Management admits candidates for the Management quota based on merit and should possess first class in optional subjects: Mathematics, Physics, and Chemistry.

- The Convener of ECET admits 20% of the candidates from the stream of Diploma Holders should pass in diploma from Andhra Pradesh State Government or an equivalent examination.
- Fee Particulars are subject to change from time to time as per the directions of the GO.