

TKPR



SMT. TAMMA KOTAMMA REDDY POLYTECHNIC
(Approved by A.I.C.T.E., New Delhi & Affiliated to S.B.T.E.T., Andhra Pradesh)
PAMARRU
KRISHNA(DIST.), ANDHRA PRADESH - 521157



INFORMATION BROCHURE
for Full Time Diploma Courses
2021-22

TKPR



SMT. TAMMA KOTAMMA REDDY POLYTECHNIC

MANAGING COMMITTEE

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Secretary & Correspondent

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Sri. B. Kesava Krishna MBBS,

Member

Sri. P.V. Sitharam,

Member

Sri. V.V. Krishna Mohan,

Member

About the College

Smt. Tamma Kotamma Reddy Polytechnic (Smt. T.K.R. Polytechnic) is a dream of an inspired group of eminent intellectuals in setting up an Institute that imparts quality Technical Education to youth in rural area. Smt.T.K.R.Polytechnic has been sponsored and established by The Hindu and High Branch School Society, Machilipatnam in the year 1987-88. The Hindu and High Branch School Society started under the designation of the Hindu Anglo and Vernacular School in 1856, a name which retained for many years. With the Passage of time, the school gradually developed and the Society changed its name as The Hindu and High Branch School Society by which name it was registered in the year 1896.

This Polytechnic is affiliated to State Board of Technical Education & Training, Andhra Pradesh and approved by A.I.C.T.E., New Delhi. This polytechnic is located in the village of Pamarru which is situated on the high way from Vijayawada to Machilipatnam of Krishna District. At present this polytechnic offers the following Engineering Diploma courses.

- 1) Diploma in Computer Engineering
- 2) Diploma in Electronics and Communications Engineering
- 3) Diploma in Electrical and Electronics Engineering

Since its inception, the college has been making relentless efforts in maintaining standards in teaching while ensuring proper character building and development among the students, organizing personality development programs for nurturing leadership in young men and women so as to enable them to become good resourceful citizens who can create a better world for all of us to live in tomorrow. This Polytechnic has well qualified, experienced and dedicated faculty and supporting staff, state of the art laboratory and workshop facilities, computer facilities, library, outdoor and indoor games, internet facilities and separate hostels for Boys and Girls.

Mission and Vision

To educate students coming from the local and rural areas, so that they become enlightened individuals, improving the living standards of their families, Industry and the Society. We will provide individual attention, high quality of Education to meet the challenges imposed by the rapid growth of technology and globalization."

Mission

- To produce output of nationally/internationally accepted levels of quality Technicians by creating access to professional education by establishing colleges in Rural Areas like Pamarru.
- To create infrastructure, teacher competence and teaching learning process so as to produce Diploma holders at accepted levels of competence in knowledge skills, attitudes and Industrial Knowledge through Industry Collaborations.

Message from the Principal

Smt. Tamma Kotamma Reddy Polytechnic (TKPR) has set its mission as to create top-class institutions for Diploma courses in Engineering with an intellectually vibrant atmosphere for doing practicals.

TKPR focuses on delivering a unique technical institute for technology development in the state as well as country where active education goes hand-in-hand with technology research.

Features of TKPR

- **Faculty:** Highly experienced Faculty from Education and Industry providing great wealth of experience and knowledge.
- **Unique Curriculum:** Finest curriculum driven by industry expertise, blended with academic values, imparted on a **8+2 Hours pattern**. Enabling technology-focus driven education to become "Industry ready" before course, **Live Project** participation, Scholarships, Interactions and group discussions with Industry experts.
- **Infrastructure:** High quality infrastructure in a huge space.
- **Hostels:** Separate Hostels For Boys and Girls.
- **Wi-Fi and E-Learning Campus:** Computer labs classrooms equipped with Wi-Fi and high-end electronic learning equipment.
- **High Education Standards:** Standards being set are in par with experiences Lecturers and others.
- **Labs & Laboratories:** E-Library for OnLine Learning, A/C Computer Labs, Fully Equipped Labs, English Communication Lab

Route and Directions to TKPR

About 40 km from Vijayawada on NH65 going towards Machilipatnam. TKPR is located near Shirdi Sai Baba temple in Pamarru.

Contact us

Smt. T.K.R. Polytechnic
Sai Nagar, Gudivada Road
PAMARRU (PO & Mandal)
Krishna (District.)
Andhra Pradesh
Pin – 521157

Phone: 08674-253307, 254407
Email: stkrp@yahoo.com
Web site: www.tkrpoly.org

Courses offered & Possible areas of Employment

Admissions are made based on the merit rank obtained in the POLYCET and the reservation rules stipulated by the Government of Andhra Pradesh. Courses offered in this Polytechnic are given below.

<u>Course</u>	<u>Intake</u>
Diploma in Computer Engineering (DCME)	54
Diploma in Electronics and Communications Engineering (DECE)	54
Diploma in Electrical and Electronics Engineering (DEEE)	54

The various diploma courses in Engineering offered through POLYCET in the Polytechnics and the area of employment as envisaged for placements as Technicians and Technical Supervisors as well as possible areas for continuing education are given below.

S. No.	Name of the Diploma Course	Possible Areas of Employment	Possible Areas of continuing Education
1	Computer Engineering (DCME)	Computer Maintenance, Software Development, Computer Training etc., Self-employment in Sales and Servicing of Computers	B.Tech-Computer Science Engineering, Computer Science and Systems Engineering, Electronics and Computer Engineering, Information Technology
2	Electronics and Communications Engineering (DECE)	AIR, DD, Communications, Electronic Industries etc., Self-employment in maintenance & Servicing of Radios, TV etc., Self-employment in Sales & Services.	B.Tech.-Electronics and Communication Engineering, Electronics and Telematics, Electronics and Telecommunication Engg.
3	Electrical and Electronics Engineering (DEEE)	APGENCO, APTRANSCO, DCL's Electrical Contractors, maintenance, Staff in Departments and Industries, Self-employment as Electric Technicians and Winders Wiring consultancy.	B.Tech.-Electrical and Electronics Engineering

Admission Procedure

The State Board of Technical Education and Training, Andhra Pradesh, Vijayawada will conduct "Polytechnic Common Entrance Test

(POLYCET)” for the candidates seeking admission in to all Diploma Courses in Engineering/Non Engineering/Technology offered at Polytechnics / institutions (including Aided and Unaided Private Polytechnics / Institutions running as 2nd shift in Pvt. Engineering Colleges) in Andhra Pradesh for the academic year 2021-22.

Eligibility to appear for POLYCET-2021.

Candidates who have passed SSC or its equivalent & recognized by the Board of Secondary Education, A.P., Vijayawada are eligible. The candidates who have compartmentally passed or appearing for SSC are also eligible to apply. However, they must have passed in all the subjects before seeking admission.

Detailed information regarding eligibility, age and syllabi etc. are given in the “POLYCET-2021 Instructions-Booklet” which will be available along with the APPLICATION FORMAT and is available in <http://sbtetap.gov.in>)

How to apply:

State Board of Technical Education & Training, AP, Vijayawada has made arrangements to file online applications at various AP online/ Helpline centres/ through payment gate way. The detailed list of these centres is available at <http://sbtetap.gov.in> website. In order to file application through these centers shall pay the examination fee Rs.350/- (Rupees Three hundred and fifty only) to the operator by the candidate.

The Admission Schedule:

The admission schedule (Web Counseling) will be notified in all leading Newspapers after declaration of POLYCET results. Candidates are advised to note that admissions into polytechnics shall be made on the basis of Web Counseling, where in candidates can opt for any course

at any polytechnic in the order of priority and the allotment shall be made for his/her best preferred choice based on his/her merit and other admission rules in vogue. Details of Web counseling and helpline centres will be available on our website <http://sbtetap.gov.in> and shall also be notified in all leading Newspapers after declaration of POLYCET RESULTS.

Pattern and Syllabus for the POLYCET examination:

The examination (POLYCET) will be of 2 hours duration consisting of only one paper as per the syllabus in the subjects of Mathematics, Physics and Chemistry of X Class (S.S.C.) Examination as prescribed by State Board of Secondary Education, Andhra Pradesh.

The Question paper consists of 120 questions with a choice of four responses for each question with only one correct response among them.

- i) 60 Questions in Mathematics for 60 Marks.
- ii) 30 Questions in Physics for 30 Marks.
- iii) 30 Questions in Chemistry for 30 Marks.

CURRICULUM-2020 (C-20)

for Diploma Courses in Andhra Pradesh

PREAMBLE

The proposed programme intends to develop a skilled technician to support the industries both nationally or globally. It also helps to kindle the spirit of entrepreneurship with necessary skills and theoretical inputs aligning with the National policy of 'Make in India'. The programme also provides for accomplishing higher education goals for those who wish to enrich their theoretical concepts further.

The State Board of Technical Education and Training, (SBTET) AP, has been offering Diploma programmes to meet the above said aspirations of the stake holders: industries, students, academia, parents and the society at large. As such, it has been the practice of SBTET, A.P., to keep the curriculum abreast with the advances in technology through systematic and scientific analysis of current curriculum and bring out an updated revised version at regular intervals. Accordingly the SBTET, AP under the aegis of the Department of Technical Education, Andhra Pradesh in its 57th Board Meeting held on 05-02-2019 (vide item no: 18) resolved to update the Polytechnic Curriculum C-16 with the guidance of National Institute of Technical Teachers Training & Research (NITTTR), Extension Centre, Vijayawada (ECV), to be implemented with effect from the academic year '20-21.

Analysis of Curriculum C-16 (SWOT analysis) started in the month of June-2019. Feedback was collected from all stake holders: Students, Lecturers, Senior Lecturers, Head of Sections and Principals for all programmes for this purpose. A series of workshops with subject experts followed in the subsequent weeks and the draft curricula were prepared for every programme. Finally, an interactive session with representatives from industries, academia and subject experts was held on 04.01.2020 for thorough perusal and critique of draft curricula; and the suggestions received from Industrialists and academia have been recorded, validated by another set of experienced subject teachers from the Department of Technical education for incorporation into the Curriculum C-20.

The design of new Curricula for the different diploma programmes has thus been finalised with the active participation of the members of the faculty teaching in the Polytechnics of Andhra Pradesh, and duly reviewed by Expert Committee constituted of academicians and representatives from industries. Thus, the primary objective of the curriculum change is to produce employable technicians in the country by correlating the growing needs of the industries with relevant academic input.

The outcome based approach as given by NBA guidelines has been followed throughout the design of this curriculum is designed to meet the requirements of NBA Accreditation, too.

The revised New Curriculum i.e., Curriculum-2020 (C-20) is approved by BoG of SBTET for its implementation with effect from 2020-21.

Highlights of Curriculum C-20:

1. Duration of course for regular Diploma and for sandwich Diploma is 3 years and 3½ years respectively.
2. The Curriculum is prepared in Semester Pattern. However, First Year is maintained as Year-wise pattern.
3. 6 Months Industrial training has been introduced for 3 years Diploma Courses and 6 months Industrial Training is introduced for 3 ½ years Sandwich Diploma courses.
4. Updated subjects relevant to the industry are introduced in all the Diploma courses.
5. CISCO course content has been incorporated into the ECE and CME programmes for certification from CISCO in lieu of industrial training when students are unable to get Industrial Training placement in any industry.
6. The policy decisions taken at the State and Central level with regard to environmental science are implemented by including relevant topics in Chemistry. This is also in accordance with the Supreme Court guidelines issued in Sri Mehta's case.
7. Keeping in view the increased need of communication skills which is playing a major role in the success of Diploma Level students in the Industries, emphasis is given for learning and acquiring listening, speaking, reading and writing skills in English. Further as emphasized in the meetings, Communication Skills lab and Life Skills lab are continuing for all the branches.
8. CAD specific to the branch has been given emphasis in the curriculum. Preparing drawings using CAD software has been given more importance.
9. Upon reviewing the existing C-16 curriculum, it is found that the theory content is found to have more weightage than the Practical content. In C-20 curriculum, more emphasis is given to the practical content in Laboratories and Workshops, thus strengthening the practical skills.
10. With increased emphasis for the student to acquire Practical skills, the course content in all the subjects is thoroughly reviewed and structured as outcome based than the conventional procedure based.
11. Curricula of Laboratory and Workshops have been thoroughly revised based on the suggestions received from the industry and faculty, for better utilization of the equipment available in the Polytechnics. The experiments /exercises that are chosen for the practical sessions are identified to confirm to the field requirements of industry.
12. An exclusive section for assessing Higher order Thinking skills (HOTS) has been introduced in summative evaluation.

MEDIUM OF INSTRUCTION

The medium of instruction and examination shall be English.

PERMANENT IDENTIFICATION NUMBER (PIN)

A cumulative / academic record is to be maintained of the Marks secured in sessional work and end examination of each year for determining the eligibility for promotion etc., A Permanent Identification Number (PIN) will be allotted to each admitted candidate to maintain academic records.

NUMBER OF WORKING DAYS PER SEMESTER / YEAR:

- a) The Academic year for all the Courses shall be in accordance with the Academic Calendar.

- b) The Working days in a week shall be from Monday to Saturday
- c) There shall be 7 periods of 50 minutes duration each on all working days.

The minimum number of working days for each semester / year shall be 90 / 180 days excluding examination days. If this prescribed minimum is not achieved due to any reason, special arrangements shall be made to conduct classes to complete the syllabus

2 *ELIGIBILITY (ATTENDANCE TO APPEAR FOR THE END EXAMINATION)*

- a) A candidate shall be permitted to appear for the end examination in all subjects, if he or she has attended a minimum of 75% of working days during the year/Semester.
- b) Condonation of shortage of attendance in aggregate up to 10% (65% and above and below 75%) in each semester or 1st year may be granted on medical grounds.
- c) A stipulated fee shall be payable towards condonation for shortage of attendance.
- d) Candidates having less than 65% attendance shall be detained.
- e) Students whose shortage of attendance is not condoned in any semester / 1st year and not paid the condonation fee in time are not eligible to take their end examination of that class and their admissions shall stand cancelled. They may seek re-admission for that semester / 1st year when offered in the next subsequent academic semester/year.

For INDUSTRIAL TRAINING:

- i) During Industrial Training the candidate shall put in a minimum of 90% attendance.
- ii) If the student fails to secure 90% attendance during industrial training, the student shall reappear for 6 months industrial training at his own expenses.

3 *READMISSION*

Readmission shall be granted to eligible candidates by the respective Principal/ Regional Joint Director.

- a) (i) Within 15 days after commencement of class work in any semester (Except Industrial Training).
(ii) For Industrial Training: before commencement of the Industrial training.
- b) Within 30 days after commencement of class work in any year (including D. Pharmacy course or first year course in Engineering and Non Engineering Diploma streams). Otherwise such cases shall not be considered for readmission for that semester / year and are advised to seek readmission in the next subsequent eligible academic year.

The percentage of attendance of the readmitted candidates shall be calculated from the first day of beginning of the regular class work for that year / Semester, as officially announced by CTE/SBTET but not from the day on which he/she has actually reported to the class work.

8. SCHEME OF Evaluation

a) **First Year**

THEORY Courses: Each Course carries Maximum marks of 80 with examination of 3 hours duration, along with internal assessment for Maximum of 20 marks. (Sessional marks). However, there are no minimum marks prescribed for sessional

Laboratory Courses: There shall be 40/20 Marks for internal assessment i.e. sessional marks for each practical Course with an end examination of 3 hours duration carrying 60/30 marks. However, there are no minimum marks prescribed for sessional.

III, IV, V, VI and VII Semesters:

THEORY Courses: Each Course carries Maximum marks of 80 with examination of 3 hours duration, along with internal assessment for Maximum of 20 marks. (Sessional marks). However, there are no minimum marks prescribed for sessional.

Laboratory Courses: There shall be 40/20 Marks for internal assessment i.e. sessional marks for each

practical Course with an end examination of 3 hours duration carrying 60/30 marks. However, there are no minimum marks prescribed for sessional.

9

INTERNAL ASSESSMENT SCHEME

a) **Theory Courses:** Internal assessment shall be conducted for awarding sessional marks on the dates specified. **Three unit tests shall be conducted for I year students and two Unit Tests for semesters.** Internal Assessment shall be of 90 minutes duration and for a maximum of 40 marks. For each test The average of marks of all the tests, reduced to 20 shall be taken as final sessional in any case.

b) *Practical Courses:*

(i) **Drawing Courses:**

The award of sessional marks for internal Assessment shall be as given in the following table

Distribution of Marks for the Internal Assessment Marks			
First Year (Total:40 Marks)		Semesters (Total:40 Marks)	
Max:20 Marks	Max:20 Marks	Max:20 Marks	Max:20 Marks
From the Average of THREE Unit Tests.	From the Average of Assessment of Regular Class work Exercises.	From the Average of TWO Unit Tests.	From the Average of Assessment of Regular Class work Exercises.

All Drawing exercises are to be filed in **serial order** and secured for further scrutiny by a competent authority

(ii) *Laboratory Courses:*

Student's performance in Laboratories / Workshop shall be assessed during the year/ semester of study for 40 marks in each practical Course.

Evaluation for Laboratory Courses, other than drawing courses:

- i. Instruction (teaching) in laboratory courses (except for the course on Drawing) hereafter shall be task/competency based as delineated in the Laboratory sheets, prepared by SBTET, AP & NITTTR- ECV and posted in SBTET website.
 - ii. Internal assessment for Laboratory shall be done on the basis of tasks performed by the student as delineated in the laboratory sheets, prepared by SBTET, AP & NITTTR- ECV and posted in AP, SBTET website.
 - iii. Question paper for End semester Evaluation shall also be task based and shall be prepared and distributed by SBTET as done in case of theory courses be prepared as per SBTET rules in vogue.
- c) Internal assessment in Labs / workshops / Survey field work etc., during the course of study shall be done and sessional marks shall be awarded by the concerned Teacher.
- d) For practical examinations, except in drawing, there shall be two examiners. External examiner shall be appointed by the Principal in consultation with respective Head of Section preferably choosing a qualified person from in the order of preference.
- i) Nearby Industry
 - ii) Govt / Semi Govt organization like R & B, PWD, PR, Railways,BSNL,APSRTC,APSEB etc.,
 - iii) Govt / University Engg College.
 - iv) HoDs from Govt.Polytechnic

Internal examiner shall be the person concerned with internal assessment as in (c) above. The end examination shall be held along with all theory papers in respect of drawing.

- e) Question Paper for Practicals: Question paper should cover (the experiments / exercise prescribed to test various) skills like handling, manipulating, testing, trouble shooting, repair, assembling and dismantling etc., from more than one experiment / exercise
- f) Records pertaining to internal assessment marks of both theory and practical Courses are to be maintained for official inspection.
- g) **In case of Diploma programs *having* Industrial Training, Internal Assessment and Summative Evaluation**, shall be done as illustrated in the following table:

Assessment no	Upon completion of	By	Based on	Max Marks
1	12 weeks	1. The faculty concerned and 2. Training Mentor of the industry	Learning outcomes as given in the scheme of assessment ,for Industrial Training	120
2	20-22 weeks			120
3.Final summative Evaluation	23 week	1.The faculty member concerned, 2.HoD concerned and 3.An external examiner	1.Demonstration of any one of the skills listed in learning outcomes	30
			2.Training Report	20
			3.Viva Voce	10
TOTAL				300

10 *MINIMUM PASS MARKS THEORY EXAMINATION:*

For passing a theory Course, a candidate has to secure a minimum of 35% in end examination and a combined minimum of 35% of both Sessional and end examination marks put together.

PRACTICAL EXAMINATION:

For passing a practical Course, a candidate has to secure a minimum of 50% in end examination and a combined minimum of 50% of both sessional and practical end examination marks put together. In case of D.C.C.P., the pass mark for typewriting and short hand is 45% in the end examination. There are no sessional marks for typewriting and Shorthand Courses of D.C.C.P course.

INDUSTRIAL ASSESSMENT:

Pass marks is 50% in assessment at Industry (I and II assessments put together) and also 50% in final summative assessment at institution level

11. *PROVISION FOR IMPROVEMENT*

Improvement is allowed only after he / she has completed all the Courses from First Year to Final semester of the Diploma.

- a) Improvement is allowed in any 4 (Four) Courses of the Diploma.
- b) The student can avail of this improvement chance **ONLY ONCE**, that too within the succeeding two examinations after the completion of Diploma. However, the duration including Improvement examination shall not exceed **FIVE** years from the year of first admission.
- c) No improvement is allowed in Practical / Lab Courses or Project work or Industrial Training assessment. However, improvement in drawing Course(s) is allowed.
- d) If improvement is not achieved, the marks obtained in previous Examinations hold good.
- e) Improvement is not allowed in respect of the candidates who are punished under Mal- practice in any Examination.

- f) Examination fee for improvement shall be paid as per the notification issued by State Board of Technical Education and Training from time to time.
- g) All the candidates who wish to appear for improvement of performance shall deposit the original Marks Memos of all the years / Semesters and also original Diploma Certificate to the Board. If there is improvement in performance of the current examination, the revised Memorandum of marks and Original Diploma Certificate will be issued, else the submitted originals will be returned.

12. RULES OF PROMOTION FROM 1ST YEAR TO 3RD, 4TH, 5TH, 6TH and 7TH SEMESTERS:

A) For Diploma Courses of 3 Years duration

- i. A candidate shall be permitted to appear for first year examination provided he / she puts in 75% attendance (which can be condoned on Medical grounds upto 10%) i.e. attendance after condonation on Medical grounds should not be less than 65% and pay the examination fee.
- ii. A candidate shall be promoted to 3rd semester if he/she puts the required percentage of attendance in the first year and pays the examination fee. A candidate who could not pay the first year examination fee has to pay the promotion fee as prescribed by State Board of Technical Education and Training, AP from time to time before commencement of 3rd semester.
- iii. A candidate shall be promoted to 4th semester provided he/she puts the required percentage of attendance in the 3rd semester and pay the examination fee. A candidate, who could not pay the 3rd semester exam fee, has to pay the promotion fee as prescribed by State Board of Technical Education and Training AP from time to time before commencement of 4th semester.

A candidate is eligible to appear for the 4th semester examination if he/she

- a) Puts the required percentage of attendance in the 4th semester
- b) Should not have failed in more than four Courses in 1st year

For IVC & ITI Lateral Entry Students:

- a) A candidate is eligible to appear for the 4th semester examination if he/she puts the required percentage of attendance in the 4th semester
- b) A candidate is eligible to appear for the 4th semester examination if he/she clears at least two Courses in third semester.
- iv) A candidate shall be promoted to 5th semester provided he / she puts the required percentage of attendance in the 4th semester and pays the examination fee. A candidate, who could not pay the 4th semester examination fee, has to pay the promotion fee as prescribed by State Board of Technical Education and Training from time to time before commencement of 5th semester.

A candidate is eligible to appear for the 5th semester examination if he/she

- a) Puts the required percentage of attendance in the 5th semester
- b) Should get eligibility to appear for 4th Semester examination.
The first backlog exam in 5th semester will be conducted only in instant/supplementary diploma examination.

For IVC& ITI Lateral Entry students:

- a) Puts the required percentage of attendance in the 5th semester
- b) Should get eligibility to appear for 4th Semester examination.
- v) A candidate shall be sent to Industrial training provided he/she puts in the required percentage of attendance in the 4th semester and pay the examination fee/ promotion fee as prescribed by SBTET.

A candidate is eligible to appear for Industrial Training assessment (Seminar/Viva-voce)

- a) Puts the required percentage of attendance, i.e., 90% in 6th semester Industrial Training

For IVC & ITI Lateral Entry students:

- a) Puts the required percentage of attendance, i.e., 90% in 6th semester Industrial Training.
- b) should get eligibility to appear for 5th Semester Examination.

B) For Diploma Courses of 3 ½ Years duration (MET/ CH/ CHPP/ CHPC/ CHOT/ TT):

- i. A candidate shall be permitted to appear for 1st year examination provided he / she puts in 75% attendance (which can be condoned on Medical grounds upto 10%) i.e. attendance after condonation on Medical grounds should not be less than 65% and pay the examination fee.
- ii. A candidate shall be promoted to 3rd semester if he/she puts the required percentage of attendance in the 1st year and pays the examination fee. A candidate who could not pay the 1st year examination fee has to pay the promotion fee as prescribed by State Board of Technical Education and Training from time to time before commencement of 3rd semester.
- iii. A candidate shall be promoted to 4th semester provided he/she puts the required percentage of attendance in the 3rd semester and pay the examination fee. A candidate, who could not pay the 3rd semester exam fee, has to pay the promotion fee as prescribed by State Board of Technical Education and Training from time to time before commencement of 4th semester.
A candidate is eligible to appear for the 4th semester exam if he/she a). Puts the required percentage of attendance in the 4th semester
b). Should not have failed in more than Four backlog Courses of 1st year.

For IVC & ITI Lateral Entry students:

- a) Puts the required percentage of attendance in the 4th semester
- iv. A candidate shall be promoted to 5th semester industrial training provided he / she puts the required percentage of attendance in the 4th semester and pays the examination fee. A candidate, who could not pay the 4th semester examination fee, has to pay the promotion fee as prescribed by State Board of Technical Education and Training from time to time before commencement of 5th semester.
- v. Promotion from 5th to 6th semester is automatic (i.e., from 1st spell of Industrial Training to 2nd spell) provided he/she puts the required percentage of attendance, which in this case i.e., 90 % of attendance and attends for the VIVA-VOCE examination at the end of training.
- vi. A candidate shall be promoted to 7th semester provided he / she puts the required percentage of attendance in the 6th semester and pays the examination fee. A candidate, who could not pay the 6th semester examination fee, has to pay the promotion fee as prescribed by State Board of Technical Education and Training from time to time before commencement of 7th semester.
- vii. A candidate shall be promoted to 7th semester of the course provided he/she has successfully completed both the spells of Industrial Training.

A candidate is eligible to appear for 7th semester examination if he/she a) Puts in the required percentage of attendance in the 7th semester

- b) Should get eligibility to appear for 4th semester Examination.

For IVC & ITI Lateral Entry students:

- a) Puts in the required percentage of attendance in the 7th semester
- b) Should not have failed more than four backlog Courses of 3rd Semester

13. STUDENTS PERFORMANCE EVALUATION

Successful candidates shall be awarded the Diploma under the following divisions of pass.

- a) First Class with Distinction shall be awarded to the candidates who secure an overall aggregate of 75% marks and above.
- b) First Class shall be awarded to candidates who secure overall aggregate of 60% marks and above

and below 75% marks.

- c) Second Class shall be awarded to candidates who secure a pass with an overall aggregate of below 60%.
- i. The Weightage of marks for various year/Semesters which are taken for computing overall aggregate shall be 25% of I year marks + 100% of 3rd and subsequent Semesters.
- ii. In respect IVC & ITI Lateral Entry candidates who are admitted directly into diploma course at the 3rd semester (i.e., second year) level the aggregate of (100%) marks secured at the 3rd and subsequent semesters of study shall be taken into consideration for determining the overall percentage of marks secured by the candidates for award of class/division.
- d) Second Class shall be awarded to all students, who fail to complete the Diploma

in theregula

14. EXAMINATION FEE SCHEDULE:

The examination fee should be as per the notification issued by State Board of Technical Education and Training, AP from time to time.

15. STRUCTURE OF EXAMINATION QUESTION PAPER:

I. Formative assessment (Internal examination)

a) For theory Courses:

Three unit tests for first year and two unit tests for semesters shall be conducted with a duration of 90 minutes for each test for maximum marks of 40. It consists of part A and Part B.

Part A contains five questions and carries 16 marks. Among these five questions first question consists of four objective items like one word or phrase answer/filling-in the blanks/true or false etc with one mark for each question. The other four questions are short answer questions and carry three marks each.

Part B carries 24 marks and consists of three questions with internal choice i.e., Either/Or type, and each question carries 8 marks.

The sum of marks of 3 tests for I year and 2 tests for semesters shall be reduced to 20 marks in each Course for arriving at final sessional marks.

b) For drawing Courses:For 1 year:

Three unit tests with duration of 90 minutes and for maximum marks of 40 marks shall be conducted for first year. It consists of part A and Part B.

Part A consists four questions for maximum marks of 16 and each question carries four marks (4×4 marks=16 marks).

Part B carries maximum marks of 24 and consists of five questions while the student shall answer any three questions out of these five questions. Each question in this part carries a maximum marks of 8, (3×8 marks=24 marks).

The sum of marks obtained in 3 unit test marks shall be reduced to 20 marks for arriving at final sessional marks. Remaining 20 marks are awarded by the Course teacher based on the student's performance during regular class exercise.

For semester: Two unit tests with duration of 90 minutes and for maximum marks of 40 marks shall be conducted. The sum of marks obtained in 2 unit test marks shall be reduced to 20 marks for arriving at final sessional marks. Remaining 20 marks are awarded by the Course teacher based on the student's performance during regular class exercise

c) For Laboratory /workshop: 50% of total marks for the Course shall be awarded based on continuous assessment of the student in laboratory/workshop classes and the remaining 50% shall be based on the sum of the marks obtained by the students in two tests.

II. Summative assessment (End examination)

The question paper for theory examination is patterned in such a manner that the Weightage of periods/marks allotted for each of the topics for a particular Course be considered. End Examination paper is of 3 hours duration.

a) Each theory paper consists of Section 'A', 'B' and 'C'.

Section 'A' with Max marks of 30, contains 10 short answer questions. All questions are to be answered and each carries 3 marks, i.e., $10 \times 3 = 30$.

Section 'B' with Max marks of 40 contains 5 essay type questions including Numerical questions (without any divisions in the question), with internal choice(Either/or type), each carrying 8 marks, i.e., Max. Marks: $5 \times 8 = 40$.

Section 'C' with Max marks of 10 contains single essay type, Higher order Thinking skills question (HoTs)including Numerical questions, without choice (without any divisions inthe question),

Thus the total marks for theory examination shall be: 80.

b) For Engineering Drawing Course (107) consist of section 'A' and section 'B'.

Section 'A' with max marks of 20, contains four (4) questions. All questions in section

'A' are to be answered to the scale and each carries 5 marks, ie. $4 \times 5=20$.

Section 'B' with max marks of 40, contains six (6) questions. The student shall answer any four (4) questions out of the above six questions and each question carries 10 Marks, ie. $4 \times 10 = 40$.

c) Practical Examinations

For Workshop practice and Laboratory Examinations, Each student has to pick up a question paper distributed by Lottery System.

Max. Marks for an experiment / exercise 50

Max. Marks for VIVA-VOCE 10

Total Max. Marks 60

In case of practical examinations with 50 marks, the marks shall be distributed as Max. Marks for an experiment / exercise 25

Max. Marks for VIVA-VOCE 05

Total Max. Marks 30

In case of any change in the pattern of question paper, the same shall be informed sufficiently in advance to the candidates.

d) Note: Evaluation for Laboratory Courses, other than Drawing courses:

- I. Instruction (teaching) in laboratory courses (except for the course on Drawing) hereafter shall be task/competency based as delineated in the Laboratory sheets, prepared by SBTET, AP and posted in its website.
- II. Internal assessment for Laboratory shall be done on basis of task/s performed by the student as delineated in the laboratory sheets, prepared by SBTET, AP and posted in its website.
- III. Question paper for End semester Evaluation shall be prepared as per SBTET rules in vogue.

16. *ISSUE OF MEMORANDUM OF MARKS*

All candidates who appear for the end examination will be issued memorandum of marks without any payment of fee. However candidates who lose the original memorandum of marks have to pay the prescribed fee to the Secretary, State Board of Technical Education and Training, A.P. for each duplicate memo from time to time.

17. *MAXIMUM PERIOD FOR COMPLETION OF DIPLOMA Programmes:*

Maximum period for completion of the diploma courses is twice the duration of the course from the date of First admission (includes the period of detention and discontinuation of studies by student etc) failing which they will have to forfeit the claim for qualifying for the award of Diploma (They will not be permitted to appear for examinations after that date). This rule applies for all Diploma courses of 3 years and 3 ½ years of engineering and non- engineering courses.

18. *ELIGIBILITY FOR AWARD OF DIPLOMA*

A candidate is eligible for award of Diploma Certificate if he / she fulfil the following academic regulations.

- i. He / She pursued a course of study for not less than 3 / 3 ½ academic years & not more than 6 / 7 academic years.
- ii. He / she have completed all the Courses.
Students who fail to fulfil all the academic requirements for the award of the Diploma within 6 / 7 academic years from the year of admission shall forfeit their seat in the course & their seat shall stand cancelled.

19. *ISSUE OF PHOTO COPY OF VALUED ANSWER SCRIPT, RECOUNTING& REVERIFICATION:*

A) FOR ISSUE OF PHOTO COPIES OF VALUED ANSWER SCRIPTS

- I. A candidate desirous of applying for Photo copy of valued answer script/s should apply within prescribed date from the date of the declaration of the result.
- II. Photo copies of valued answer scripts will be issued to all theory Courses and Drawing Course(s).
- III. The Photo copy of valued answer script will be dispatched to the concerned candidate's address as mentioned in the application form by post.
- IV. No application can be entertained from third parties.

B) FOR RE-COUNTING(RC) and RE-VERIFICATION(RV) OF THE VALUED ANSWER SCRIPT

- i. A candidate desirous of applying for Re-verification of valued answer script should apply within prescribed date from the date of the declaration of the result.
- ii. Re-verification of valued answer script shall be done for all theory Courses' and Drawing Course(s).
- iii. The Re-verification committee constituted by the Secretary, SBTETAP with Course experts shall re-verify the answer scripts.

I. RE-COUNTING

The Officer of SBTET will verify the marks posted and recount them in the already valued answer script. The variations if any will be recorded separately, without making any changes on the already valued answer script. The marks awarded in the original answer script are maintained (hidden).

II. RE-VERIFICATION

- (i) The Committee has to verify the intactness and genuineness of the answer script(s) placed for Re-verification.
- (ii) Initially single member shall carry out the re-verification.
- (iii) On re-verification by single member, if the variation is less than 12% of maximum marks, and if there is no change in the STATUS in the result of the candidate, such cases will not be referred to the next level ie., for 2-Tier evaluation.
- (iv) On re-verification by a single member, if the variation is more than 12% of maximum marks, it will be

- referred to 2-Tier evaluation.
- (v) If the 2-Tier evaluation confirms variation in marks as more than 12% of maximum marks, the variation is considered as follows:
- a) If the candidate has already passed and obtains more than 12% of the maximum marks on Re-verification, then the variation is considered.
 - b) If the candidate is failed and obtains more than 12% of the maximum marks on Re-verification and secured pass marks on re-verification, then the status of the candidate changes to PASS.
 - c) If a candidate is failed and obtains more than 12% of the maximum marks on Re-verification and if the marks secured on re-verification are still less than the minimum pass marks, the status of the candidate remain FAIL only.
- (vii) After Re-verification of valued answer script the same or change if any therein on Re-verification, will be communicated to the candidate.
- (viii) On Re-verification of Valued Answer Script if the candidate's marks are revised, the fee paid by the candidate will be refunded or else the candidate has to forfeit the fee amount.
- Note:** No request for Photo copies/ Recounting /Re-verification of valued answer script would be entertained from a candidate who is reported to have resorted to Malpractice in that examination.

20. MAL PRACTICE CASES:

If any candidate resorts to Mal Practice during examinations, he / she shall be booked and the Punishment shall be awarded as per SBTETAP rules and regulations invogue.

21. DISCREPANCIES/ PLEAS:

Any Discrepancy /Pleas regarding results etc., shall be represented to the SBTETAP within one month from the date of issue of results. Thereafter, no such cases shall be entertained in any manner.

22. ISSUE OF DUPLICATE DIPLOMA

If a candidate loses his/her original Diploma Certificate and desires a duplicate to be issued he/she should produce written evidence to this effect. He / she may obtain a duplicate from the Secretary, State Board of Technical Education and Training, A.P., on payment of prescribed fee and on production of an affidavit signed before a First Class Magistrate (Judicial) and non-traceable certificate from the Department of Police. In case of damage of original Diploma Certificate, he / she may obtain a duplicate certificate by surrendering the original damaged certificate on payment of prescribed fee to the State Board of Technical Education and Training, A.P.

In case the candidate cannot collect the original Diploma within 1 year from the date of issue of the certificate, the candidate has to pay the penalty prescribed by the SBTET AP from time to time.

23. ISSUE OF MIGRATION CERTIFICATE AND TRANSCRIPTS:

The Board on payment of prescribed fee will issue these certificates for the candidates who intend to prosecute Higher Studies in India or Abroad.

SCHEME OF EXAMINATION

a) First Year

THEORY EXAMINATION: Each Subject carries 80% marks with examination of 3 hours duration, along with 20% marks for internal evaluation. (Sessional marks). However, there are no minimum marks prescribed for sessionals.

PRACTICAL EXAMINATION: There shall be 40% Marks for regular practical work done, i.e. sessional marks for each practical subject with an end examination of 3 hours duration carrying 60% marks. However, there are no minimum marks prescribed for sessionals.

b) III, IV, V, VI and VII Semesters:

THEORY EXAMINATION: Each subject carries usually 80 marks and 30 marks in respect of specified subjects of 3hours duration, along with 20 marks for internal evaluation (sessional marks) respectively.

PRACTICAL EXAMINATION: Each subject carry 60/30 marks of 3hours duration 40/20 sessional marks.

INTERNAL ASSESSMENT SCHEME

- a) Theory Subjects: Theory Subjects carry 20% sessional marks, Internal examinations will be conducted for awarding sessional marks on the dates specified. **Three unit tests will be conducted for I year students and two Unit Tests for semesters.** Average of marks obtained in all the prescribed tests will be considered for awarding the sessional marks.
- b) Practical Subjects: Student's performance in Laboratories / Workshop shall be assessed during the year/ semester of study for 40% marks in each practical subject. Allotment of marks should be discrete taking into consideration of the students' skills, accuracy, recording and performance of the task assigned to him / her. Each student has to write a record / log book for assessment purpose. In the subject of Drawing, which is also considered as a practical paper, the same rules hold good. Drawing exercises are to be filed in seriatum.
- c) Internal assessment in Labs / workshops / Survey field work etc., during the course of study shall be done and sessional marks shall be awarded by the concerned Lecturer / Senior Lecturer / Workshop superintendent as the case may be.
- d) Records pertaining to internal assessment marks of both theory and practical subjects are to be maintained.

e) **Diploma courses *having Industrial Training***, the training assessment shall be done and the marks are to be awarded in the following manner.

Industrial assessment : 200 marks (in two spells of 100 marks each)

Maintenance of log book :30 marks

Record Work : 30 marks

Seminar / viva-voce :40 marks _____

TOTAL :300 marks _____

The assessment at the institution level (Seminar/Viva-voce)shall be done by three members, viz., Internal Faculty member, External Examiner and Head of Section and be averaged.

MINIMUM PASS MARKS

THEORY EXAMINATION:

For passing a theory subject, a candidate has to secure a minimum of 35% in end examination and a combined minimum of 35% of both Sessional and end examination marks put together.

PRACTICAL EXAMINATION:

For passing a practical subject, a candidate has to secure a minimum of 50% in end examination and a combined minimum of 50% of both sessional and practical end examination marks put together.

STUDENTS PERFORMANCE EVALUATION

Successful candidates shall be awarded the Diploma under the following divisions of pass.

1. First Class with Distinction shall be awarded to the candidates who secure an overall aggregate of 75% marks and above.
2. First Class shall be awarded to candidates who secure overall aggregate of 60% marks and above and below 75% marks.
3. Second Class shall be awarded to candidates who secure a pass with an overall aggregate of below 60%.

The Weightage of marks for various year/Semesters which are taken for computing overall aggregate shall be 25% of I year marks + 100% of 3rd and subsequent Semesters.

C-20 Syllabus of courses

Diploma in Computer Engineering (D.CM.E) Syllabus

1st Year D.CM.E Syllabus

	Name of the Subject	Instruction Periods/Week		Total Periods Per Year	Scheme Of Examinations			
		Theory	Practicals		Duration (hrs)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
CM-101	English-I	3	-	90	3	20	80	100
CM-102	Engineering Mathematics - I	5	-	150	3	20	80	100
CM-103	Engineering Physics	4	-	120	3	20	80	100
CM-104	Engineering Chemistry and Environmental studies	4	-	120	3	20	80	100
CM-105	Basics of Computer Engineering	3	-	90	3	20	80	100
CM-106	Programming in C	5	-	150	3	20	80	100
PRACTICAL SUBJECTS								
CM-107	Engineering Drawing	-	6	180	3	40	60	100
CM-108	Programming in C Lab	-	6	180	3	40	60	100
CM-109	Physics Lab	-	3	90	1.5	20	30	50
	Chemistry Lab	-	3	90	1.5	20	30	50
CM-110	Computer Fundamentals Lab	-	-	90	3	40	60	100
	Total	24	18		-			1000

CM-101,102,103,104,107,109,110 common with all branches.

3rd Semester D.CM.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
CM-301	Engineering Mathematics –II	5	--	75	3	20	80	100
CM-302	Digital Electronics & Computer Architecture	6	--	90	3	20	80	100
CM-303	Operating Systems	5	--	75	3	20	80	100
CM-304	Data Structures through C	5	--	75	3	20	80	100
CM-305	DBMS	5	--	75	3	20	80	100
PRACTICAL SUBJECTS								
CM-306	Data Structures Through C Lab	--	6	90	3	40	60	100
CM-307	DBMS Lab	--	4	60	3	40	60	100
CM-308	Communications Skills	--	3	45	3	40	60	100
CM-309	Digital Electronics Lab	--	3	45	3	40	60	100
	Total	26	16	630	--	260	640	900

4th Semester D.CM.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
CM-401	Computer Hardware & Networking	5	--	75	3	20	80	100
CM-402	OOP through Java	5	--	75	3	20	80	100
CM-403	Software Engineering	5	--	75	3	20	80	100
CM-404	Microprocessors	5	--	75	3	20	80	100
CM-405	Web Designing	5	--	75	3	20	80	100
PRACTICAL SUBJECTS								
CM-406	Web Designing Lab	--	6	90	3	40	60	100
CM-407	Java Programming Lab	--	4	60	3	40	60	100
CM-408	Computer Hardware & Networking Lab	--	4	60	3	40	60	100
CM-409	Microprocessors Lab	--	3	45	3	40	60	100
	Total	25	17	630	--	260	640	900

5th Semester D.CM.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
CM-501	Industrial Management & Smart Technologies	5	--	75	3	20	80	100
CM-502	.NET Programming with C#	5	--	75	3	20	80	100
CM-503	System Administration	5	--	75	3	20	80	100
CM-504	Mobile Application Development	5	--	75	3	20	80	100
CM-505	Advances in Computer Technology	6	--	90	3	20	80	100
PRACTICAL SUBJECTS								
CM-506	System Administration & Software Testing Lab	--	6	90	3	40	60	100
CM-507	.NET Programming with C# Lab	--	3	45	3	40	60	100
CM-508	Life Skills	--	3	45	3	40	60	100
CM-509	Mobile Application Development Lab	--	4	60	3	40	60	100
	Total	26	16	630	--	260	640	900

6th Semester D.CM.E Syllabus

CM-601 INDUSTRIAL TRAINING

S.No.	Subject	Duration	Items	Max. Marks	Remarks
CM-601	Practical Training in the Industry	6 months	First Assessment (at the end of 3 rd month)	100	
			Second Assessment (at the end of 6 th month)	100	
			Training Report Log Book Record	30 30	
			Seminar	40	
Total				300	

The industrial training shall carry **300** marks and pass marks are **50%**. A candidate failing to secure the minimum marks should complete it at his own expenses. No apprenticeship training stipend is payable in such case.

During Industrial training the candidate shall put in a minimum of **90%** attendance.

Diploma in Electronics and Communication Engineering (D.E.C.E) Syllabus
1st Year D.E.C.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
EC-101	English	3	--	90	3	20	80	100
EC-102	Engineering Mathematics- I	5	--	150	3	20	80	100
EC-103	Engineering Physics	4	--	120	3	20	80	100
EC-104	Engineering Chemistry and Environmental studies	4	--	120	3	20	80	100
EC-105	Electronic Devices and Power Supplies	5	--	150	3	20	80	100
EC-106	Elements of Electrical Engineering	4	--	120	3	20	80	100
PRACTICAL SUBJECTS								
EC-107	Engineering Drawing	--	6	180	3	40	60	100
EC-108	Basic Electronics Laboratory & Wiring Fundamentals	--	5	150	3	40	60	100
EC-109	Physics Laboratory	--	3	90	3	20	30	50
EC-110	Chemistry Laboratory	--			3	20	30	50
EC-111	Computer Fundamentals Laboratory	--	3	90	3	40	60	100
	Total	25	17	1260	--	280	720	1000

EC-101, 102, 103, 104, 106, 107, 109, 110, 111 common with all branches.

3rd Semester D.E.C.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
EC-301	Engineering Mathematics –II	5	--	75	3	20	80	100
EC-302	Electronic Circuits	6	--	90	3	20	80	100
EC-303	Digital Electronics	6	--	90	3	20	80	100
EC-304	Analog and Digital Communication Systems	6	--	90	3	20	80	100
EC-305	Network Analysis	6	--	90	3	20	80	100
PRACTICAL SUBJECTS								
EC-306	Electronic Circuits Lab.	--	3	45	3	40	60	100
EC-307	Digital Electronics Lab.	--	4	60	3	40	60	100
EC-308	Analog and Digital Communication Systems Lab.	--	3	45	3	40	60	100
EC-309	Communication Skills Practice	--	3	45	3	40	60	100
	Total	29	13	630	--	260	640	900

4th Semester D.E.C.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
EC-401	Linear ICs and Applications	6	--	90	3	20	80	100
EC-402	Programming in C and MATLAB	6	--	90	3	20	80	100
EC-403	Microprocessors	6	--	90	3	20	80	100
EC-404	Electronic Measurements & consumer gadgets	6	--	90	3	20	80	100
EC-405	Microwave & Satellite Communication systems	6	--	90	3	20	80	100
PRACTICAL SUBJECTS								
EC-406	Linear ICs Lab	--	3	45	3	40	60	100
EC-407	Microprocessors lab	--	3	45	3	40	60	100
EC-408	C & MATLAB practice Laboratory	--	3	45	3	40	60	100
EC-409	Consumer Electronics & Measurements Lab	--	3	45	3	40	60	100
	Total	30	12	630	--	260	640	900

5th Semester D.E.C.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
EC-501	Industrial Management & Smart Technologies	5	--	75	3	20	80	100
EC-502	Microcontrollers	6	--	90	3	20	80	100
EC-503	Computer Hardware & Networking	6	--	90	3	20	80	100
EC-504	Optical & Mobile Communications	6	--	90	3	20	80	100
EC-505	Industrial Electronics	6	--	90	3	20	80	100
PRACTICAL SUBJECTS								
EC-506	Advanced Communications & Networking Lab	--	4	60	3	40	60	100
EC-507	Microcontrollers lab	--	3	45	3	40	60	100
EC-508	Life Skills	--	3	45	3	40	60	100
EC-509	Industrial Electronics Lab	--	3	45	3	40	60	100
	Total	29	13	630	--	260	640	900

6th Semester D.E.C.E Syllabus

EC-601 INDUSTRIAL TRAINING

S.No.	Subject	Duration	Items	Max. Marks	Remarks
EC-601	Practical Training in the Industry	6 months	First Assessment (at the end of 3 rd month)	100	
			Second Assessment (at the end of 6 th month)	100	
			Training Report Log Book Record	30 30	
			Seminar	40	
Total				300	

The industrial training shall carry **300** marks and pass marks are **50%**. A candidate failing to secure the minimum marks should complete it at his own expenses. No apprenticeship training stipend is payable in such case.

During Industrial training the candidate shall put in a minimum of **90%** attendance.

Diploma in Electrical and Electronics Engineering

(D.EE.E) Syllabus

1st Year D.EE.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
EE-101	English	3	--	90	3	20	80	100
EE-102	Engineering Mathematics- I	5	--	150	3	20	80	100
EE-103	Engineering Physics	4	--	120	3	20	80	100
EE-104	Engineering Chemistry and Environmental studies	4	--	120	3	20	80	100
EE-105	Electrical Engineering Materials	3	--	90	3	20	80	100
EE-106	Basic Electrical Engineering	5	--	150	3	20	80	100
PRACTICAL SUBJECTS								
EE-107	Engineering Drawing	--	6	180	3	40	60	100
EE-108	Basic Electrical and Electronics Laboratory	--	6	180	3	40	60	100
EE-109	Physics Laboratory	--	3	90	3	20	30	50
EE-110	Chemistry Laboratory	--			3	20	30	50
EE-111	Computer Fundamentals Laboratory	--	3	90	3	40	60	100
	Total	24	18	1260	--	280	720	1000

EE-101, 102, 103, 104, 106, 107, 109, 110, 111 common with all branches.

3rd Semester D.EE.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
EE-301	Engineering Mathematics –II	5	--	75	3	20	80	100
EE-302	D.C. Machines & Measuring Instruments	5	--	75	3	20	80	100
EE-303	Electrical Circuits	5	--	75	3	20	80	100
EE-304	General Mechanical Engineering	5	--	75	3	20	80	100
EE-305	Electronics Engineering-1	4	--	60	3	20	80	100
PRACTICAL SUBJECTS								
EE-306	D.C. Machines & Measurements lab	--	6	90	3	40	60	100
EE-307	Electrical Wiring & Maintenance lab	--	6	90	3	40	60	100
EE-308	C-Language Lab.	--	3	45	3	40	60	100
EE-309	Electronics Engineering Lab-1	--	3	45	3	40	60	100
	Total	24	18	630	--	260	640	900

4th Semester **D.EE.E** Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
EE-401	A.C. Machines-1	5	--	75	3	20	80	100
EE-402	Power Systems-1 (G & P)	5	--	75	3	20	80	100
EE-403	Electrical Utilization & Traction	5	--	75	3	20	80	100
EE-404	Electrical Installation & Estimation	4	--	60	3	20	80	100
EE-405	Electronics Engineering-II	5	--	75	3	20	80	100
PRACTICAL SUBJECTS								
EE-406	Electrical Engineering Drawing	--	7	105	3	40	60	100
EE-407	A.C. Machines-1 Laboratory	--	4	60	3	40	60	100
EE-408	Communication Skills Lab.	--	3	45	3	40	60	100
EE-409	Electronics lab. - II	--	4	60	3	40	60	100
	Total	24	18	630	--	260	640	900

NOTE: EE-403 : INCLUDES INDUSTRIAL DRIVES

5th Semester D.EE.E Syllabus

Subject code	Name of the Subject	Instruction Periods/Week		Total Periods per Year	Scheme of Examinations			
		Theory	Practicals		Duration (Hours)	Sessional Marks	End Exam Marks	Total Marks
THEORY SUBJECTS								
EE-501	Industrial Management & Smart Technologies	5	--	75	3	20	80	100
EE-502	A.C. machines-II	5	--	75	3	20	80	100
EE-503	Power systems - II (T,D & P)	5	--	75	3	20	80	100
EE-504	Power Electronics & PLC	5	--	75	3	20	80	100
EE-505	Digital Electronics & Microcontrollers	5	--	75	3	20	80	100
PRACTICAL SUBJECTS								
EE-506	A.C. machines laboratory-II	--	4	60	3	40	60	100
EE-507	Power Electronics & PLC lab	--	6	90	3	40	60	100
EE-508	Life skills	--	3	45	3	40	60	100
EE-509	Digital Electronics & Microcontrollers Lab	--	4	60	3	40	60	100
	Total	25	17	630	--	260	640	900

6th Semester **D.EE.E Syllabus**

EE-601 INDUSTRIAL TRAINING

S.No.	Subject	Duration	Items	Max. Marks	Remarks
EE-601	Practical Training in the Industry	5 months	First Assessment (at the end of 3 rd month)	100	
			Second Assessment (at the end of 6 th month)	100	
			Training Report		
			Log Book	30	
			Record	30	
			Seminar	40	
Total				300	

The industrial training shall carry **300** marks and pass marks are **50%**. A candidate failing to secure the minimum marks should complete it at his own expenses. No apprenticeship training stipend is payable in such case.

During Industrial training the candidate shall put in a minimum of **90%** attendance.

PLACEMENT DETAILS

YEAR	No. of Candidates Placed	Minimum Salary	Maximum Salary	Average Salary
2018-19	12	11000	15000	13000
2019-20	4	8000	10000	9000
2020-21	4	8000	10000	9000

S. No.	Year	Name of Industry/Avenue placement	the of	Name of the student	P.I.N.	Branch
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PHOTO GALLERY



Smt. T. Kotamma Reddy
B.A., B.L., (Retired District
Judge) Founder Chairman
Smt. T.K.R. Polytechnic
PAMARRU



Sri. T. Vinod B.E.,
(Retired Supdt. Engineer
Panchayat Raj)
Chairman
Smt. T.K.R. Polytechnic
PAMARRU

Sri. D.P.S.V. Prasad
(Business Man)
Secretary & Correspondent
Smt. T.K.R. Polytechnic
PAMARRU



Boys Hostel



Girls Hostel



Polytechnic Main Block



Polytechnic Buildings



EEE Laboratories Block



ECE Block





Blood Donation Camp



Engineer's day Celebrations



Technical Exhibition (TECHFEST)



Farewell & Freshers day Celebrations



Vinayaka Chavithi



Semi-Christmas
Traditional Festives



**Swatcha Bharat
Clean & Green Programs**



Campus Drives



Flag Hosting on Independence day





Awards for Merit students