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|---|-----------------------------|---|
|   | Fourth year second semester | semester.   |
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R22. B. Tech Logulation

- 7.4 A student (i) shall register for all courses/subjects covering 160 credits as specified and listed in the course structure, (ii) fulfills all the attendance and academic requirements for 160 credits, (iii) earn all 160 credits by securing SGPA  $\ge 5.0$  (in each semester), and-CGPA  $\ge 5$  (at the end of 8 semesters), (iv) passes all the mandatory courses, to successfully complete the undergraduate programme. The performance of the student in these 160 credits shall be considered for the calculation of the final CGPA (at the end of undergraduate programme), and shall be indicated in the grade card / marks memo of IV-year II semester.
- 7.5 If a student registers for 'extra subjects' (in the parent department or other departments/branches of Engg.) other than those listed subjects totaling to 160 credits as specified in the course structure of his department, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 160 credits) will not be considered while calculating the SGPA and CGPA. For such 'extra subjects' registered, percentage of marks and letter grade alone will be indicated in the grade card / marks memo as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations Items 6 and 7.1 7.4 above.
- 7.6 A student eligible to appear in the semester end examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, internal marks (CIE) assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- 7.7 A student detained in a semester due to shortage of attendance may be readmitted in the same semester in the next academic year for fulfillment of academic requirements. The academic regulations under which a student has been re-admitted shall be applicable. Further, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which the student has been detained.
- 7.8 A student detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required number of academic credits. The academic regulations under which the student has been readmitted shall be applicable to him.

## 8.0 Evaluation - Distribution and Weightage of Marks

8.1 The performance of a student in every subject/course (including practicals and Project Stage – I & II) will be evaluated for 100 marks each, with 40 marks allotted for CIE (Continuous Internal Evaluation) and 60 marks for SEE (Semester End-Examination).

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Annamacharya Institute of Technology & Sciences Piglipur(V), Batasingaram(P), Abdullapurmet(M), R.R. Dist, Hyd-501 512 8.2 In CIE, for theory subjects, during a semester, there shall be two mid-term examinations. Each Mid-Term examination consists of two parts i) Part – A for 10 marks, ii) Part – B for 20 marks with a total duration of 2 hours as follows:

Mid Term Examination for 30 marks:

 Part - A : Objective/quiz paper for 10 marks.
 Part - B : Descriptive paper for 20 marks.

The objective/quiz paper is set with multiple choice, fill-in the blanks and match the following type of questions for a total of 10 marks. The descriptive paper shall contain 6 full questions out of which, the student has to answer 4 questions, each carrying 5 marks. The average of the two Mid Term Examinations shall be taken as the final marks for Mid Term Examination (for 30 marks).

The remaining 10 marks of Continuous Internal Evaluation are distributed as:

Assignment for 5 marks. (Average of 2 Assignments each for 5 marks)
 Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the concerned subject for 5 marks.

While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus.

Five (5) marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The average of the two assignments shall be taken as the final marks for assignment (for 5 marks).

Subject Viva-Voce/PPT/Poster Presentation/ Case Study on a topic in the subject concerned for 5 marks before II Mid-Term Examination.

 The Student, in each subject, shall have to earn 35% of marks (i.e. 14 marks out of 40 marks) in CIE, 35% of marks (i.e. 21 marks out of 60) in SEE and Over all 40% of marks (i.e. 40 marks out of 100 marks) both CIE and SEE marks put together.

The student is eligible to write Semester End Examination of the concerned subject, if the student scores  $\geq$  35% (14 marks) of 40 Continuous Internal Examination (CIE) marks.

In case, the student appears for Semester End Examination (SEE) of the concerned subject but not scored minimum 35% of CIE marks (14 marks out of 40 internal marks), his performance in that subject in SEE shall stand cancelled inspite of appearing the SEE.

There is NO Computer Based Test (CBT) for R22 regulations.

The details of the end semester question paper pattern are as follows:

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8.2.1 The semester end examinations (SEE), for theory subjects, will be conducted for 60 marks consisting of two parts viz. i) Part- A for 10 marks, ii) Part - B for 50 marks.

- Part-A is a compulsory question which consists of ten sub-questions from all units carrying equal marks.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from each unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.
- · The duration of Semester End Examination is 3 hours.
- 8.2.2 For the subject, Computer Aided Engineering Graphics, the Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE) evaluation pattern is same as for other theory subjects.
- 8.3 For practical subjects there shall be a Continuous Internal Evaluation (CIE) during the semester for 40 marks and 60 marks for semester end examination. Out of the 40 marks for internal evaluation:
  - A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 10 marks
  - 10 marks for viva-voce (or) tutorial (or) case study (or) application (or) poster presentation of the course concerned.
  - Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 10 marks.
  - 4. The remaining 10 marks are for Laboratory Report/Project and Presentation, which consists of the Design (or) Software / Hardware Model Presentation (or) App Development (or) Prototype Presentation submission which shall be evaluated after completion of laboratory course and before semester end practical examination.

The Semester End Examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the cluster / other colleges which will be decided by the examination branch of the University.

In the Semester End Examination held for 3 hours, total 60 marks are divided and allocated as shown below:

- 1. 10 marks for write-up
- 2. 15 for experiment/program
- 3. 15 for evaluation of results
- 4. 10 marks for presentation on another experiment/program in the same laboratory course and
- 5. 10 marks for viva-voce on concerned laboratory course.
- The Student, in each subject, shall have to earn 35% of marks (i.e. 14 marks out of 40 marks) in CIE, 35% of marks (i.e. 21 marks out of 60) in SEE and Over all

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40% of marks (i.e. 40 marks out of 100 marks) both CIE and SEE marks put together

The student is eligible to write Semester End Examination of the concerned subject, if the student scores  $\geq$  35% (14 marks) of 40 Continuous Internal Examination (CIE) marks,

In case, the student appears for Semester End Examination (SEE) of the concerned subject but not scored minimum 35% of CIE marks (14 marks out of 40 internal marks), his performance in that subject in SEE shall stand cancelled inspite of appearing the SEE.

The evaluation of courses having ONLY internal marks in I Year I Semester and II Year II Semester is as follows:

1. I Year I Semester course (ex., Elements of CE/ME/EEE/ECE/CSE etc): The internal evaluation is for 50 marks and it shall take place during 1 Mid-Term examination and II Mid-Term examination. The average marks of two Mid-Term examinations is the final for 50 marks. Student shall have to earn 40%, i.e 20 marks out of 50 marks from average of the two examinations. There shall be NO external evaluation. The student is deemed to have failed, if he (i) is absent as per schedule, or (ii) secures less than 40% marks in this course.

For CSE/IT and allied branches and Mining Engineering, the Continuous Internal Evaluation (CIE) will be for 50 marks. Each Mid-Term examination consists of two parts i) Part – A for 20 marks, ii) Part – B for 20 marks with a total duration of 2 hours.

Part A: Objective/quiz paper is set with multiple choice, fill-in the blanks and match the following type of questions for a total of 20 marks. Part B: Descriptive paper shall contain 6 full questions out of which, the student has to answer 4 questions, each carrying 5 marks.

The remaining 10 marks of Continuous Internal Evaluation are for Assignment (5 marks) and Subject Viva-Voce/PPT/Poster Presentation/ Case Study (5 marks) and the evaluation pattern will remain same as for other theory subjects.

For all other branches, the Continuous Internal Evaluation (CIE) will be for 50 marks. Out of the 50 marks for internal evaluation:

- a) A write-up on day-to-day experiment in the laboratory (in terms of aim, components/procedure, expected outcome) which shall be evaluated for 10 marks
- b) 10 marks for viva-voce (or) tutorial (or) case study (or) application (or) poster presentation of the course concerned.
- c) Internal practical examination conducted by the laboratory teacher concerned shall be evaluated for 15 marks.
- d) The remaining 15 marks are for Laboratory Report/Project and Presentation, which consists of the Design (or) Software / Hardware Model Presentation (or) App Development (or) Prototype Presentation submission which shall be

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evaluated after completion of laboratory course and before semester end practical examination.

- 2. II Year II Semester Real-Time (or) Field-based Research Project course: The internal evaluation is for 50 marks and it shall take place during I Mid-Term examination and II Mid-Term examination. The average marks of two Mid-Term examinations is the final for 50 marks. Student shall have to earn 40%, i.e 20 marks out of 50 marks from average of the two examinations. There shall be NO external evaluation. The student is deemed to have failed, if he (i) does not submit a report on the Project, or (ii) does not make a presentation of the same before the internal committee as per schedule, or (ii) secures less than 40% marks in this course.
- 8.5 There shall be an Industry training (or) Internship (or) Industry oriented Mini-project (or) Skill Development Courses (or) Paper presentation in reputed journal (or) Industry Oriented Mini Project in collaboration with an industry of their specialization. Students shall register for this immediately after II-Year II Semester Examinations and pursue it during summer vacation/semester break & during III Year without effecting regular course work. Internship at reputed organization (or) Skill development courses (or) Paper presentation in reputed journal (or) Industry Oriented Mini Project shall be submitted in a report form and presented before the committee in III-year II semester before end semester examination. It shall be evaluated for 100 external marks. The committee consists of an External Examiner, Head of the Department, Supervisor of the Industry Oriented Mini Project (or) Internship etc, Internal S for Industry Training (or) Internship (or) Mini-Project (or) Skill Development Courses (or) Paper Presentation in reputed journal (or) Industry Oriented Mini Project.
- 8.6 The UG project shall be initiated at the end of the IV Year I Semester and the duration of the project work is one semester. The student must present Project Stage I during IV Year I Semester before II Mid examinations, in consultation with his Supervisor, the title, objective and plan of action of his Project work to the departmental committee for approval before commencement of IV Year II Semester. Only after obtaining the approval of the departmental committee, the student can start his project work.

8.7 UG project work shall be carried out in two stages: Project Stage – I for approval of project before Mid-II examinations in IV Year I Semester and Project Stage – II during IV Year II Semester. Student has to submit project work report at the end of IV Year II Semester. The project shall be evaluated for 100 marks before commencement of SEE Theory examinations.

8.8 For Project Stage – I, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall approve the project work to begin before II Mid-Term examination of IV Year I Semester. The student is deemed to be not eligible to register for the Project work, if he does not submit a semicircular semicirc

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report on Project Stage - I or does not make a presentation of the same before the evaluation committee as per schedule.

A student who has failed may reappear once for the above evaluation, when it is scheduled again; if he fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

8.9 For Project Stage – II, the external examiner shall evaluate the project work for 60 marks and the internal project committee shall evaluate it for 40 marks. Out of 40 internal marks, the departmental committee consisting of Head of the Department, Project Supervisor and a Senior Faculty. Member shall evaluate the project work for 20 marks and Project Supervisor shall evaluate for 20 marks. The topics for Industry Oriented Mini Project/ Internship/SDC etc. and the main Project shall be different from the topic already taken. The student is deemed to have failed, if he (i) does not submit a report on the Project, or (ii) does not make a presentation of the same before the External Examiner as per schedule, or (iii) secures less than 40% marks in the sum total of the CIE and SEE taken together.

For conducting viva-voce of project, University selects an external examiner from the list of experts in the relevant branch submitted by the Principal of the College.

A student who has failed, may reappear once for the above evaluation, when it is scheduled again; if student fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

8,10 A student can re-register for subjects in a semester:

If the internal marks secured by a student in the Continuous Internal Evaluation
marks for 40 (Sum of average of two mid-term examinations consisting of
Objective & descriptive parts, Average of two Assignments & Subject Vivavoce/PPT/ Poster presentation/ Case Study on a topic in the concerned subject)
are less than 35% and failed in those subjects.

They may seek re-registration for all those subjects registered in that semester in which the student is failed. The student has to re-appear for CIE and SEE as and when offered.

A student must re-register for the failed subject(s) for 40 marks within four weeks of commencement of the classwork in next academic year. His Continuous Internal Evaluation marks for 40 obtained in the previous attempt stand cancelled. The student has to obtain fresh set of marks for 40 allotted for CIE (Sum of average of two mid-term examinations consisting of Objective & descriptive parts, Average of two Assignments & Subject Viva-voce/PPT/ Poster presentation/ Case Study on a topic in the concerned subject). Head of the Dept. will take care of this.

8.11 For mandatory courses of Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab, a student has to secure 40 marks out of 100 marks (i.e. 40% of the 100 marks allotted) in the Continuous Internal Evaluation

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for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.

8.12 No marks or letter grades shall be allotted for mandatory/non-credit courses. Only Pass/Fail shall be indicated in Grade Card.

#### 9.0 Grading Procedure

- 9.1 Grades will be awarded to indicate the performance of students in each Theory Subject, Laboratory/Practicals/ Industry-Oriented Mini Project/Internship/SDC and Project Stage. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed:

| % of Marks Secured in a Subject/Course<br>(Class Intervals) | Letter Grade<br>(UGC Guidelines) | Grade Points |  |
|---|----------------------------------|--------------|--|
| Greater than or equal to 90%                                | O<br>(Outstanding)               | 10           |  |
| 80 and less than 90%  | A <sup>+</sup><br>(Excellent)    | 9            |  |
| 70 and less than 80%  | A<br>(Very Good)                 | 8            |  |
| 60 and less than 70%  | B <sup>+</sup><br>(Good)         | 7            |  |
| 50 and less than 60%  | B<br>(Average)                   | 6            |  |
| 40 and less than 50%  | C<br>(Pass)                      | 5            |  |
| Below 40%   | F<br>(FAIL)                      | 0            |  |
| Absent  | Ab                               | 0            |  |

- 9.3 A student who has obtained an 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- 9.4 To a student who has not appeared for an examination in any subject, 'Ab' grade will be allocated in that subject, and he is deemed to have 'Failed'. A student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered next. In this case also, the internal marks in those subjects will remain the same as those obtained earlier.

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- 9.5 A letter grade does not indicate any specific percentage of marks secured by the student, but it indicates only the range of percentage of marks.
- 9.6 A student earns Grade Point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'Credit Points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit Points (CP) = Grade Point (GP) x Credits .... For a course

- 9.7 A student passes the subject/ course only when  $GP \ge 5$  ('C' grade or above)
- 9.8 The Semester Grade Point Average (SGPA) is calculated by dividing the sum of credit points (ΣCP) secured from all subjects/ courses registered in a semester, by the total number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

SGPA = {  $\sum_{i=1}^{N} C_i G_i$  } / {  $\sum_{i=1}^{N} C_i$  } .... For each semester,

where 'i' is the subject indicator index (considering all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department),  $C_1$  is the no. of credits allotted to the i<sup>th</sup> subject, and  $G_1$  represents the grade points (GP) corresponding to the letter grade awarded for that i<sup>th</sup> subject

9.9 The Cumulative Grade Point Average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the ratio of the total credit points secured by a student in all registered courses (of 160) in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the 1 year II semester onwards at the end of each semester as per the formula

CGPA = {  $\sum_{i=1}^{M} C_i G_i$  } / |  $\sum_{i=1}^{M} C_i$  } ... for all S semesters registered

(i.e., up to and inclusive of S semesters,  $S \ge 2$ ),

where 'M' is the total no. of subjects (as specifically required and listed under the course structure of the parent department) the student has 'registered' i.e., from the 1<sup>st</sup> semester onwards up to and inclusive of the 8<sup>th</sup> semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C<sub>1</sub> is the no. of credits allotted to the j<sup>th</sup> subject, and G<sub>1</sub> represents the grade points (GP) corresponding to the letter grade awarded for that j<sup>th</sup> subject. After registration and completion of 1 year 1 semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

Illustration of calculation of SGPA:

| Course/Subject | Credits | Letter<br>Grade | Grade<br>Points | Credit<br>Points   |
|----------------|---------|-----------------|-----------------|--------------------|
| Course 1       | 4       | A               | 8               | $4 \times 8 = 32$  |
| Course 2       | 4       | 0               | 10              | $4 \times 10 = 40$ |
|                |         | 14              | 15              | N                  |



# R18. B. Tech Regulation

- 7.4 A student (i) shall register for all courses/subjects covering 160 credits as specified and listed in the course structure, (ii) fulfills all the attendance and academic requirements for 160 credits, (iii) earn all 160 credits by securing SGPA  $\ge 5.0$  (in each semester), and CGPA (at the end of each successive semester)  $\ge 5.0$ , (iv) passes all the mandatory courses, to successfully complete the under graduate programme. The performance of the student in these 160 credits shall be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme), and shall be indicated in the grade card of IV year II semester.
  - 7.5 If a student registers for 'extra subjects' (in the parent department or other departments/branches of Engg.) other than those listed subjects totaling to 160 credits as specified in the course structure of his department, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 160 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, percentage of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 7.4 above.
    - 7.6 A student eligible to appear in the semester end examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for that subject/ course in the supplementary examination as and when conducted. In such cases, internal marks (CIE) assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
      - 7.7 A student detained in a semester due to shortage of attendance may be readmitted in the same semester in the next academic year for fulfillment of academic requirements. The academic regulations under which a student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which the student has been detained.
        - 7.8 A student detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits. The academic regulations under which the student has been readmitted shall be applicable to him.

### 8.0 Evaluation - Distribution and Weightage of marks

- 8.1 The performance of a student in every subject/course (including practicals and Project Stage I & II) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).
- 8.2 For theory subjects, during a semester, there shall be two mid-term examinations. Each mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper). The objective paper is set with 20 multiple choice, fill-

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PRINCIPAL Antamacharya Institute of Technology & Sciences Piglipur(V), Batasingaram(P), in the blanks and matching type of questions for a total of 10 marks. The descriptive paper shall contain 4 full questions out of which, the student has to answer 2 questions, each carrying 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first mid-term examination, and the second assignment should be submitted before the conduct of the second mid-term examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in Continuous Internal Evaluation. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the University. The details of the end semester question paper pattern are as follows:

8.2.1

The semester end examinations (SEE) will be conducted for 75 marks consisting of two parts viz. i) Part- A for 25 marks, ii) Part - B for 50 marks.

- Part-A is a compulsory question consisting of ten sub-questions. The first five sub-questions are from each unit and carry 2 marks each. The next five sub-questions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.
- 8.2.2 For subjects like Engineering Graphics/Engineering Drawing, the SEE shall consist of five questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions. There shall be no Part A, and Part B system.
- 8.2.3 For subjects like Machine Drawing Practice/Machine Drawing, the SEE shall be conducted for 75 marks consisting of two parts viz. (i) Part A for 30 marks. 3 out of 4 questions must be answered, (ii) Part B for 45 marks. Part B is compulsory.
- 8.2.4 For the Subject Estimation, Costing and Project Management, the SEE paper should consist of Part- A, Part-B and Part C. (i) Part A 1 out of 2 questions from Unit I for 30 Marks, (ii) Part B 1 out of 2 questions from Unit II for 15 Marks, (iii) Part C 3 out of 5 questions from Units III, IV, V for 30 Marks.
- 8.2.5 For subjects Structural Engineering I & II (RCC & STEEL), the SEE will be conducted for 75 marks consisting of 2 parts viz. (i) Part A for 15 marks and, (i) Part B for 60 marks. Part A is a compulsory question consisting of ten sub-questions. The first five sub-questions are from each unit relating to design theory and codal provisions and carry 2 marks each. The next five sub-questions are from each unit and carry 1 mark each. Part B consists of 5 questions (humbered 2 to 6)

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carrying 12 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there is either or choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

For practical subjects there shall be a continuous internal evaluation during the semester for 25 marks and 75 marks for semester end examination. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed from the clusters of colleges which are decided by the examination branch of the University.

8.3

8.4

8.8

For the subject having design and/or drawing, (such as engineering graphics, engineering drawing, machine drawing, machine drawing practice and estimation), the distribution shall be 25 marks for continuous internal evaluation (15 marks for day-to-day work and 10 marks for internal tests) and 75 marks for semester end examination. There shall be two internal tests in a semester and the average of the two shall be considered for the award of marks for internal tests.

8.5 There shall be an Industrial Oriented Mini Project/Summer Internship, in collaboration with an industry of their specialization. Students will register for this immediately after III year II semester examinations and pursue it during summer vacation. Industrial Oriented Mini Project/Summer Internship shall be submitted in a report form and presented before the committee in IV year I semester. It shall be evaluated for 100 external marks. The committee consists of an external examiner, Head of the Department, supervisor of the Industrial Oriented mini project/Summer Internship and a senior faculty member of the department. There shall be no internal marks for Industrial Oriented Mini Project/Summer Internship.

8.6 There shall be a seminar presentation in IV year I semister. For the seminar, the student shall collect the information on a specialized topic, prepare a technical report, and submit it to the department. It shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 100 internal marks. There shall be no semester end examination for the seminar.

UG project work shall be carried out in two stages: Project Stage - I during IV Year I 8.7 Semester, Project Stage - II during IV Year II Semester. Each stage will be evaluated for 100 marks. Student has to submit project work report at the end of each semester. First report includes project work carried out in IV Year I semester and second report includes project work carried out in IV Year I & II Semesters. SEE for both project stages shall be completed before the commencement of SEE Theory examinations.

For Project Stage - I, the departmental committee consisting of Head of the Department, project supervisor and a senior faculty member shall evaluate the project

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work for 75 marks and project supervisor shall evaluate for 25 marks. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - I or does not make a presentation of the same before the evaluation committee as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together.

A student who has failed may reappear once for the above evaluation, when it is scheduled again; if he fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

8.9 For Project Stage - II, the external examiner shall evaluate the project work for 75 marks and the project supervisor shall evaluate it for 25 marks. The topics for industrial oriented mini project, seminar and Project Stage - I shall be different from one another. The student is deemed to have failed, if he (i) does not submit a report on Project Stage - II, or does not make a presentation of the same before the external examiner as per schedule, or (ii) secures less than 40% marks in the sum total of the CIE and SEE taken together.

For conducting viva-voce of project stage - II, University selects an external examiner from the list of experts in the relevant branch submitted by the Principal of the College.

A student who has failed may reappear once for the above evaluation, when it is scheduled again; if student fails in such 'one reappearance' evaluation also, he has to reappear for the same in the next subsequent semester, as and when it is scheduled.

The laboratory marks and the internal marks awarded by the college are subject to 8.10 scrutiny and scaling by the University wherever necessary. In such cases, the internal and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the University rules and produced before the committees of the University as and when asked for.

- 8.11 For mandatory courses of Environmental Science, Constitution of India, Intellectual Property Rights, and Gender Sensitization lab, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course. These marks should also be uploaded along with the internal marks of other subjects.
- No marks or letter grades shall be allotted for mandatory/non-credit courses. Only 8.12 Pass/Fail shall be indicated in Grade Card.
- 9.0 Grading procedure
- Grades will be awarded to indicate the performance of students in each theory subject, 9.1 laboratory / practicals, seminar, Industry Oriented Mini Project, and project Stage - I & II. Based on the percentage of marks obtained (Continuous Internal Evaluation plus

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Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.

9.2

As a measure of the performance of a student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTE guidelines) and corresponding percentage of marks shall be followed: 01 -----

| % of Marks Secured in a Subject/Course<br>(Class Intervals) | Letter Grade<br>(UGC Guidelines) | Grade Points |
|---|----------------------------------|--------------|
| Greater than or equal to 90%                                | Ó<br>(Outstanding)               | 10           |
| 80 and less than 90%  | A <sup>+</sup><br>(Excellent)    | 9            |
| 70 and less than 80%  | A<br>(Very Good)                 | 8            |
| 60 and less than 70%  | B <sup>+</sup><br>(Good)         | 7            |
| 50 and less than 60%  | B<br>(Average)                   | 6            |
| 40 and less than 50%  | C<br>(Pass)                      | 5            |
| Below 40%   | F<br>(FAIL)                      | 0            |
| Absent  | Ab                               | 0            |

- 9.3 A student who has obtained an 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.
- To a student who has not appeared for an examination in any subject, 'Ab' grade will 9.4 be allocated in that subject, and he is deemed to have 'failed'. A student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered next. In this case also, the internal marks in those subjects will remain the same as those obtained earlier.
- A letter grade does not indicate any specific percentage of marks secured by the 9.5 student, but it indicates only the range of percentage of marks.
- A student earns grade point (GP) in each subject/ course, on the basis of the letter 9.6 grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits .... For a course

A student passes the subject/ course only when  $GP \ge 5$  ('C' grade) or above) 9.7

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-16 · B. Tell Regulation

'earn all 192 credits by securing SGPA  $\ge 5.0$  (in each semester), and CGPA (at the end of each successive semester)  $\geq$  5.0, to successfully complete the under graduate programme.

- After securing the necessary 192 credits as specified for the successful completion of the 7.5 entire under graduate programme, the student can avail exemption of two subjects up to 6 credits, that is, one open elective and one professional elective subject or two professional elective subjects for optional drop out from these 192 credits earned; resulting in 186 credits for under graduate programme performance evaluation, i.e., the performance of the student in these 186 credits shall alone be taken into account for the calculation of 'the final CGPA (at the end of under graduate programme, which takes the SGPA of the IV year II semester into account)', and shall be indicated in the grade card of IV year II semester. However, the performance of student in the earlier individual semesters, with the corresponding SGPA and CGPA for which grade cards have already been given will not be altered.
- If a student registers for some more 'extra subjects' (in the parent department or other departments/branches of engg.) other than those listed subjects totaling to 192 credits as 7.6 specified in the course structure of his department, the performances in those 'extra subjects' (although evaluated and graded using the same procedure as that of the required 192 credits) will not be taken into account while calculating the SGPA and CGPA. For such 'extra subjects' registered, % of marks and letter grade alone will be indicated in the grade card as a performance measure, subject to completion of the attendance and academic requirements as stated in regulations 6 and 7.1 - 7.5 above.
- A student eligible to appear in the end semester examination for any subject/ course, but absent from it or failed (thereby failing to secure 'C' grade or above) may reappear for 7.7 that subject/ course in the supplementary examination as and when conducted. In such cases, internal marks (CIE) assessed earlier for that subject/ course will be carried over, and added to the marks to be obtained in the SEE supplementary examination for evaluating performance in that subject.
- A student detained in a semester due to shortage of attendance may be re-admitted when the same semester is offered in the next academic year for fulfillment of 7.8 academic requirements. The academic regulations under which student has been readmitted shall be applicable. However, no grade allotments or SGPA/ CGPA calculations will be done for the entire semester in which student has been detained.
- A student detained due to lack of credits, shall be promoted to the next academic year only after acquiring the required academic credits. The academic regulations under 7.9 which student has been readmitted shall be applicable to him.

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8.0

Evaluation - Distribution and Weightage of marks 2 CIPAL Annemm va Incl Pic L. Entasingeram(P) Abdullapunnen M), R.R. Dist Hyd-501 \$19

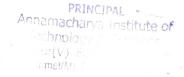
8.1

The performance of a student in every subject/course (including practicals and UG major project) will be evaluated for 100 marks each, with 25 marks allotted for CIE (Continuous Internal Evaluation) and 75 marks for SEE (Semester End-Examination).

For theory subjects, during a semester, there shall be two mid-term examinations. Each 8.2 mid-term examination consists of one objective paper, one descriptive paper and one assignment. The objective paper and the descriptive paper shall be for 10 marks each with a total duration of 1 hour 20 minutes (20 minutes for objective and 60 minutes for descriptive paper). The objective paper is set with 20 bits of multiple choice, fill-in the blanks and matching type of questions for a total of 10 marks. The descriptive paper shall contain 4 full questions out of which, the student has to answer 2 questions, each carrying. 5 marks. While the first mid-term examination shall be conducted on 50% of the syllabus, the second mid-term examination shall be conducted on the remaining 50% of the syllabus. Five marks are allocated for assignments (as specified by the subject teacher concerned). The first assignment should be submitted before the conduct of the first midexamination, and the second assignment should be submitted before the conduct of the second mid-examination. The total marks secured by the student in each mid-term examination are evaluated for 25 marks, and the average of the two mid-term examinations shall be taken as the final marks secured by each student in internals/sessionals. If any student is absent from any subject of a mid-term examination, an on-line test will be conducted for him by the university. The details of the question paper pattern are as follows,

- The end semester examinations will be conducted for 75 marks consisting of two parts viz. i) Part- A for 25 marks, ii) Part - B for 50 marks.
- Part-A is compulsory question which consists of ten sub-questions. The first five sub-questions are from each unit and earry 2 marks each. The next five subquestions are one from each unit and carry 3 marks each.
- Part-B consists of five questions (numbered from 2 to 6) carrying 10 marks each. Each of these questions is from one unit and may contain sub-questions. For each question there will be an "either" "or" choice, which means that there will be two questions from each unit and the student should answer either of the two questions.

8.3 For practical subjects there shall be a continuous internal evaluation during the semester for 25 sessional marks and 75 semester end examination marks. Out of the 25 marks for internal evaluation, day-to-day work in the laboratory shall be evaluated for 15 marks and internal practical examination shall be evaluated for 10 marks conducted by the laboratory teacher concerned. The semester end examination shall be conducted with an external examiner and the laboratory teacher. The external examiner shall be appointed



from the clusters of colleges which are decided by the examination branch of the university.

8.4 For the subject having design and/or drawing, (such as engineering graphics, engineering drawing, machine drawing) and estimation, the distribution shall be 25 marks for continuous internal evaluation (15 marks for day-to-day work and 10 marks for internal tests) and 75 marks for semester end examination. There shall be two internal tests in a semester and the average of the two shall be considered for the award of marks for internal tests.

**8.5** There shall be an UG mini-project, in collaboration with an industry of their specialization. Students will register for this immediately after III year II semester examinations and pursue it during summer vacation. The UG mini-project shall be submitted in a report form and presented before the committee in IV year I semester. It shall be evaluated for 100 marks. The committee consists of an external examiner, Head of the Department, supervisor of the UG mini-project and a senior faculty member of the department. There shall be no internal marks for UG mini-project.

8.6 There shall be a seminar presentation in IV year I semester. For the seminar, the student shall collect the information on a specialized topic, prepare a technical report, and submit it to the department. It shall be evaluated by the departmental committee consisting of Head of the Department, seminar supervisor and a senior faculty member. The seminar report shall be evaluated for 100 marks. There shall be no semester end examination for the seminar.

8.7 Out of a total of 100 marks for the UG major Project, 25 marks shall be allotted for internal evaluation and 75 marks for the end semester examination (viva voce). The end semester examination of the UG major Project shall be conducted by the same committee as appointed for the UG mini-project. In addition, the UG major Project supervisor shall also be included in the committee. The topics for UG mini project, seminar and UG major Project shall be different from one another. The evaluation of UG major Project shall be made at the end of IV year II semester. The internal evaluation shall be on the basis of two seminars given by each student on the topic of UG major Project.

The laboratory marks and the sessional marks awarded by the college are subject to scrutiny and scaling by the university wherever necessary. In such cases, the sessional and laboratory marks awarded by the college will be referred to a committee. The committee will arrive at a scaling factor and the marks will be scaled accordingly. The recommendations of the committee are final and binding. The laboratory records and internal test papers shall be preserved in the respective institutions as per the university rules and produced before the committees of the university as and when asked for.

8.8



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- For mandatory courses Environmental Science, Professional Ethics and gender sensitization lab, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- **8.10** For mandatory courses NCC/NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing  $\ge 65\%$  attendance in such a course.
- **8.11** No marks or letter grade shall be allotted for all mandatory/non-credit courses.

### 9.0 Grading procedure

8.9

- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, labaratory / practicals, seminar, UG mini project, UG major project. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) as specified in item 8 above, a corresponding letter grade shall be given.
- 9.2 As a measure of the performance of student, a 10-point absolute grading system using the following letter grades (as per UGC/AICTÉ guidelines) and corresponding percentage of marks shall be followed:

| % of Marks Secured in a Subject/Course<br>(Class Intervals) | Letter Grade<br>(UGC Guidelines) | Grade Points |
|---|----------------------------------|--------------|
| Greater than or equal to 90%                                | O<br>(Óutstanding)               | 10           |
| 80 and less than 90%  | A⁺<br>(Excellent)                | 9            |
| 70 and less than 80%  | A<br>(Very Good)                 | 8            |
| 60 and less than 70%  | B⁺<br>(Good)                     | 7            |
| 50 and less than 60%  | B<br>(Average)                   | 6            |
| 40 and less than 50%  | C<br>(Pass)                      | 5            |
| Below 40%   | F<br>(FAIL)                      | 0            |
| Absent  | Ab                               | 0            |

9.3 A student obtaining 'F' grade in any subject shall be deemed to have 'failed' and is required to reappear as a 'supplementary student' in the semester end examination, as and

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when offered. In such cases, internal marks in those subjects will remain the same as those obtained earlier.

- A student who has not appeared for examination in any subject, 'Ab' grade will be 9.4 allocated in that subject, and student shall be considered 'failed'. Student will be required to reappear as a 'supplementary student' in the semester end examination, as and when offered.
- A letter grade does not indicate any specific percentage of marks secured by the student, 9.5 but it indicates only the range of percentage of marks.
- A student earns grade point (GP) in each subject/ course, on the basis of the letter grade secured in that subject/ course. The corresponding 'credit points' (CP) are computed by 9.6 multiplying the grade point with credits for that particular subject/ course.

Credit points (CP) = grade point (GP) x credits .... For a course

The student passes the subject/ course only when  $GP \ge 5$  ('C' grade or above)

9.7

The semester grade point average (SGPA) is calculated by dividing the sum of credit points ( $\Sigma$ CP) secured from all subjects/ courses registered in a semester, by the total 9.8 number of credits registered during that semester. SGPA is rounded off to two decimal places. SGPA is thus computed as

SGPA = {  $\sum_{i=1}^{N} C_i G_i$  } / {  $\sum_{i=1}^{N} C_i$  } .... For each semester,

where 'i' is the subject indicator index (takes into account all subjects in a semester), 'N' is the no. of subjects 'registered' for the semester (as specifically required and listed under the course structure of the parent department), C<sub>i</sub> is the no. of credits allotted to the  $i^{th}$  subject, and  $G_i$  represents the grade points (GP) corresponding to the letter grade awarded for that ith subject.

The cumulative grade point average (CGPA) is a measure of the overall cumulative performance of a student in all semesters considered for registration. The CGPA is the 9.9 ratio of the total credit points secured by a student in all registered courses in all semesters, and the total number of credits registered in all the semesters. CGPA is rounded off to two decimal places. CGPA is thus computed from the I year II semester onwards at the end of each semester as per the formula

## $CGPA = \{ \sum_{j=1}^{M} C_j G_j \} / \{ \sum_{j=1}^{M} C_j \} \dots$ for all S semesters registered

(i.e., up to and inclusive of S semesters,  $S \ge 2$ ),

where 'M' is the total no. of subjects (as specifically required and listed under the course structure of the parent department) the student has 'registered' i.e., from the 1<sup>st</sup> semester onwards up to and inclusive of the 8<sup>th</sup> semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters),  $\zeta_{j}$  is the no. of credits allotted to the j<sup>th</sup>

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subject, and  $G_j$  represents the grade points (GP) corresponding to the letter grade awarded for that j<sup>th</sup> subject. After registration and completion of I year I semester, the SGPA of that semester itself may be taken as the CGPA, as there are no cumulative effects.

| Course/Subject | Credits | Letter<br>Grade | Grade<br>Points | Credit<br>Points   |
|----------------|---------|-----------------|-----------------|--------------------|
| Course 1       | 4       | A               | 8               | $4 \times 8 = 32$  |
| Course 2       | 4       | 0               | 10              | $4 \times 10 = 40$ |
| Course 3       | 4       | С               | 5               | $4 \times 5 = 20$  |
| Course 4       | 3       | В               | 6               | $3 \times 6 = 18$  |
| Course 5       | 3       | A+              | 9               | $3 \times 9 = 27$  |
| Course 6       | 3       | С               | 5               | $3 \times 5 = 15$  |
|                | 21      |                 |                 | 152                |

Illustration of calculation of SGPA

Illustration of calculation of CGPA:

| Semester      | Credits | SGPA | Credits x<br>SGPA     |
|---------------|---------|------|-----------------------|
| Semester I    | 24      | 7    | $24 \times 7 = 168$   |
| Semester II   | 24      | 6    | $24 \times 6 = 144$   |
| Semester III  | 24      | 6.5  | $24 \ge 6.5 = 156$    |
| Semester IV   | 24      | 6    | $24 \times 6 = 144$   |
| Semester V    | 24      | 7.5  | $24 \times 7.5 = 180$ |
| Semester VI   | 24      | 8    | $24 \times 8 = 192$   |
| Semester VII  | 24      | 8.5  | $24 \ge 8.5 = 204$    |
| Semester VIII | 24      | 8    | $24 \times 8 = 192$   |
| Semester VIII | 192     |      | 1380                  |

CGPA = 1380/192 = 7.18

- 9.10 For merit ranking or comparison purposes or any other listing, only the 'rounded off' values of the CGPAs will be used.
- 9.11 For calculations listed in regulations 9.6 to 9.9, performance in failed subjects/ courses (securing F grade) will also be taken into account, and the credits of such subjects/ courses will also be included in the multiplications and summations. After passing the failed subject(s) newly secured letter grades will be taken into account for calculation of SGPA and CGPA. However, mandatory courses will not be taken into consideration.

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SGPA = 152/21 = 7.23

Annamacharya Institute of Technology & Sciences PIGLIPUR, BATASINGARAM (V), HAYATH NAGAR (M), R.R. DIST., HYDERABAD - 501 512 8 Т Name of the Student : Ayeshowsk ١ 5 Roll No. Branch civil Max. Marks Subject CEC Marks Obtained Year/Semester 4(1) 19118 Signature of the Valuer Signature the Student Signature of the Invigilator MAIN ANSWER BOOK 2,2,5 4 6.35 3) Earth work for noon of C 6mts/5 Mts 1.35 Serts 03 Superstructure is brick Masonacy = 0.35mts 0 depth of stone Hasonaup 6. 4 5 footing = 0.60mts concrete bed = 0.3mts. Brikk Excomption width 1. Donts Haloren 0.25 depth of excavation = 0.60 + 0.30 D. 6 Omm = 0.90mtl. 0,00 LORUE sed centre to centre . 1.00000 or centre line Method, longwall and short we length = almontos 2 (cw+sw) Alevision) = 2 (5.35 + 6.35) 2 (6.0010-5,030)1 23.4 mis (5.00 1 9:25 - 1 9 25) = 20 HEAD OF THE DEPARTMENT PRINCHAL Annamacharya Institute o' Dept. of Civil Engineering Abdullapurnet (M), R.R. Dist. MYD-504 555 Annamacharya Institute of Technology & Sciences. Piglipur (V), Batasingaram (P), R.R. Dist-501 512.

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- 1. Students must be present in the examination hall 10 minutes before the commencement of the examination.
- 2. Student must Write H.T.No., Name, Subject, Date & must be signed on the main answer book and attendance sheet.
- 3. Student must adhere to all instructions given by an Invigilator prior to, during and immediately after an examination.
- 4. Students are required to ensure submission of answer scripts at the end of the examination, failure to submission of answer script would be treated as absent.

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HEAD OF THE DEPARTMENT Dept. of Civil Engineering Annamacharya Institute of Technology & Sciences. Piglipur (V), Batasingaram (P), R.R. Dist-501 512. PRINCIPAL Annamecharya Institute oʻ Technology & Sciences Pigipur (V), Betasingerem (Post) Abdullapurmet (M), R.R. Diet. MYD-50\* 353

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Annamacharya Institute of Technology & Science PIGLIPUR, BATASINGARAM (V), HAYATH NAGAR (M), R.R. DIST., HYDERABAD - 501 512. 08/02/201 Date : ... Name of the Student : M. Rahul RIS MID SE 5 T 8 A 0 1 6 Roll No. : : CSE-B Branch Max. Marks ...... 05 Subject 2nd/I Year/Semester Signature of the Wa Signature of the Student Signature of the Invigilator MAIN ANSWER BOOK 2 6 Multi Thoreading Models:-Multi shreading models are defined as that by usen mode from user level of kerna cithen mode som record revel. on both user and resurd mode the multi thougading is dassified into three types. They are, 1) Many to one operation 2) one to one operation 3) many to many operation 1) Many to one: user nodes 0 υ PRINCIPAL Annamacharya Institute of K Kernal node Technology & Sciences Piglipur (V), Batasingaram (Post) ilanurmet (M), R.R. Dist, HVD-501,512 many to one operation, the many user In mapping onto the single kound node on are

Annamacharya Institute of Technology & Sciences PIGLIPUR (V), BATASINGARAM (P), ABDULLAPURMET (M), R.R.DIST., HYDERABAD - 501 512. Name of the Student :- & Aray human Date: 21/11/19 : ECE Subject Roll No. : 1 7 7 8 1 int. DC (This is 401 Year/Semester · Wod Isi Signature of the Student Max. Marks :..... skow Marks Obtained :.... I O 21/11/19 Signature of the Invigilator Signature of the Valuer MAIN ANSWER BOOK 3. QPSK Modulator :---Quadrature space phase Shift keying modulator. using the and the transmitter and Receiver were the QPSK Channel the QPSK Modulator. Separate the beach of the newsoge signal EPS LON 2TI fot <u>\_\_\_\_</u>1\_\_ and AUD HRaising the washow? 1-0 4th power 7). 2 las 10 apjk dete 90°Band pass đ filler Ades الأدر *i*., Modulate do signal Signal 0 Ja Risin andot  $x_{z,y}$ Gronsimitter of the OPSK Modulate Quidrature Phase Shift keyting anathute of piglipur (V), Balasingaran, postmoclulated piglipur (V), Balasingara Spectrum 's The Opsk of the hopping spread

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1.1.1.E.1. Annamacharya Institute of Technology & Sciences PIGLIPUR (V), BATASINGARAM (P), ABDULLAPURMET (M), R.R.DIST., HYDERABAD - 501 512. Date: 16 11 19 Name of the Student : B. Bheen Redoly Roll No. : 8 1 7 Т 0404 Branch : ECE Subject : DC (internal lab) Marks Obtained :.... Year/Semester : 2018-19 TTI-I Signature of the Valuer Signature of the Student Signature of the Invigilator MAIN ANSWER BOOK Aim: - To Generate and determinedulation) of Amplitude Shifting key Apparatus -) ASK trainer kit > CRO -> connecting wines THEORY Ask means Amplitude Shifting key the Amplitude changes according the carrier 1/p of modulation Data In this generation and defaition (Democlulation) of ASIC workerms When we give Binary Data ilp, the output will change when the ilp is zero there is no amphitude when ilp is I there will be rise in Amplitude. Amplitude varies Accurding to the ilp data given PRINCIPAL here ilp is the carrier wave. Annamacharya Institute of In this experiment we use CRU Piglibuo(V), Olas Estan (Post) the Apdullapurmet (M), R.R. Dist. HYD-501 512. waveforms generated

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|         |                      | a        |                                |                 |                    | TION - B        | <u> </u>                                 | Subjective     | 20.   | :15                     |
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|         |                      | b        |                                | ,               | b                  | · · · ·         | · · · · · · · · · · · · · · · · · · ·    | Assignment     | 5.  | 5                       |
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Annamacharya Institute of Technology & Sciences PIGLIPUR (V), BATASINGARAM (P), ABDULLAPURMET (M), R.R.DIST., HYDERABAD - 501 512. Date: 23/11/2019 Name of the Student : A. Amil Kumari Junit. 1991 : Mechanical Engineering Roll No. : 0 Branch Hugher official and : DM Subject Max. Marks :..... : 300 / 1st Year/Semester Marks Obtained :...... (A)my Signature of the Valuer Signature of the Student Signature of the Invigilator MAIN ANSWER BOOK 3 Media @ means which shows on which convey everything to the people around world about politics, on mformation. 5 technology and present situation. · Tekvision, radio, and soget media like facebook, tion continuity of dist turitter, metragram all under comes maes media. Impact and role & media m disaster managment of -7 Media acts as a connecting tank between effected areas 111 and other people in DM is main is minibudy 7 It shows the before and after disaeter situations 914 7 It telecast everything about disaster effected areas 7 sometimes governament clek the help of media to know about the strateming by and side born which Due to media the news reached to the celebrities and they will by to donate money as they can do. -> Many celebrities, Burness poseons, communities and some normal people come forward to give donation -> Media also moreage the presence on governament to give fund for affected people PRINCIPAL

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Annamacharya Institute of Technology & Sciences PIGLIPUR (V), BATASINGARAM (P), ABDULLAPURMET (M), R.R.DIST., HYDERABAD - 501 512. Date: 13 11 2019 Name of the Student : A. Anil Kum as Roll No. : Branch T 8 1 A 0 3 0 1 : Mechanical : Machine tools internal lab Subject Max. Marks :.... 25 Year/Semester : 33a/ 1st Marks Obtained :...... 2.3 Alin Signature of the Valuer Signature of the Student Signature of the hvigilator MAIN ANSWER BOOK D Thread cutting and Knurling AIME- To perform V-thread cutting on a lathing borning right and left hand metric threads Tools and equipments-H.S.S. Single point cutting tool, grooring tool, threading tool thread gauge, outside calliper chuck key, Tool post key, steel rule Operation chart SNO Ecquence & operation cutting fool used Facing H.S.S sngle point cutting tool 1 Rough twoming 2 H.S. S single point cutling tool Fihish turning 3 H.s.s single point cutting tool step turning 4 HSS single point cutting lost Grooving 5 Grooving tool Thread cutting 6 Threading tool 7 champering H.S.S single point cutting tool principle of thread cutting: to produce a helical grave on a yearderical or conical suspace by feeding the tool longitudinally when the sob & revolved between centres or by a chuck PRINCIPAL Annamacharya Institute c Technology & Sciences Pighpur (V), Batasingerem (Post) Illapurmet (M), R.R. Dist. HYD-504 552

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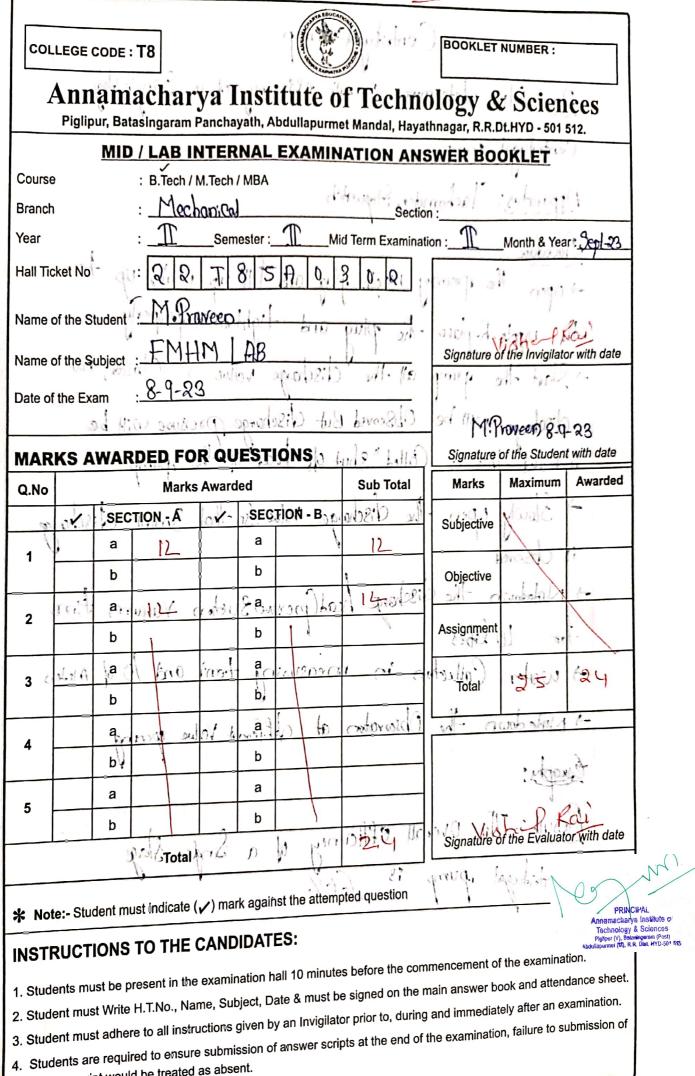
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| 4         |           |        |                          |             | b<br>a<br>b |   |                              | l le        | 5 X -                                  | P Rai             |

\* Note:- Student must indicate () mark against the attempted question

# INSTRUCTIONS TO THE CANDIDATES:

- 1. Students must be present in the examination hall 10 minutes before the commencement of the examination.
- 2. Student must Write H.T.No., Name, Subject, Date & must be signed on the main answer book and attendance sheet. 3. Student must adhere to all instructions given by an Invigilator prior to, during and immediately after an examination. 4. Students are required to ensure submission of answer scripts at the end of the examination, failure to submission of answer scripts at the end of the examination, failure to submission of answer scripts at the end of the examination.

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| 2. Stud         | ent mus              | st Write           | H.T.No., Nar                     | ne, Sub   | oject, D | ate & must l   | be signed on the n  | and immediat                   | ely after an ex           | kamination.<br>ubmission of |
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| A         | nn:<br>Piglipu | ama<br>ir, Bata | nchary<br>singaram Pa      | 7 <b>a I</b> I<br>anchay | nsti<br>ath, Ab    | tute of<br>dullapurme   | <b>Techno</b><br>Mandal, Hayat                                | hnagar, R.R.Dt  | Scienc<br>.HYD - 501 51 | <b>Ces</b><br>12. |
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|           |                |                 | :6/7_                      |                          |                    |   | - ,   |                 | ₽¥-                     | <b>4</b> 2        |
| MAD       |                | WAD             | DED FO                     | R QU                     | EST                | ONS   |   | Signature o     | of the Student          |                   |
|           | NJ A           | WAN             |                            | Award                    |                    | _   | Sub Total   | Marks           | Maximum                 | Awarded           |
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|           | V              | a               | 18                         |                          | а                  | $\mathbf{Y}$  | 18  |                 |                         |                   |
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|           | V              | a               | 195                        |                          | а                  |   | 185   |                 |                         |                   |
| 2         |                | b               | 12                         |                          | b                  |   | -   | Assignment      |                         |                   |
| -         |                | <br>a           | 1                          |                          | а                  |   |   |                 | YO                      | 36                |
| 3         |                | b               |                            | $\square$                | b                  |   |   | Total           | 40                      |                   |
|           |                |                 |                            |                          | а                  | =   |   |                 |                         |                   |
| 4         |                | a               | +                          | +                        | b                  |   |   |                 |                         |                   |
|           |                | b               |                            | Ť                        | a                  |   |   |                 |                         | 2                 |
| 5         |                | a               |                            | ,                        | b                  |   |   |                 | Vintra                  | PKal              |
|           |                | b               |                            | 1                        |                    |   | 36  | Signature       | of the Evalua           | P Kai             |
|           |                |                 | Total                      |                          |                    |   |   |                 |                         |                   |
|           |                |                 | uct indicate               | ( 🗸 ) ma                 | ark agai           | inst the atten  | npted question  |                 |                         |                   |
|           |                |                 |                            | 1                        |                    | req.  |   |                 |                         |                   |
| INST      | RUCT           | IONS            | TO THE                     | CAN                      | אטונ               |   | the before the CC   | ommencement     | of the examin           | lation.           |
|           |                |                 | the the                    | o ovami                  | ination            | hall 10 minu  | tes before the co<br>be signed on the<br>ator prior to, duri  | e main answer l | book and atte           | endance sneet.    |
| 2. Stud   | dent mu        | st Write        | e H.T.No., Na              | ame, Su                  | ibject, l<br>aiven | by an Invigila  | tor prior to, duri  | ng and immedia  | ately after an          | submission of     |
| 3. Stud   | dent mu        | st adhe         | ere to all inst            | ructions<br>re subr      | nission            | of answer sc  | be signed on the<br>ator prior to, duri<br>ripts at the end o | of the examinat | ion, lailute to         | 1                 |
| 4. Stu    |                |                 | ired to ensuind be treated |                          |                    |   |   |                 |                         | PRINCIPAL         |
|           |                |                 |                            |                          |                    |   |   |                 | with CamSo              | Annamacharya last |