

Fourth year second semester	semester.
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- 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 ≥ 5.0 (in each semester), and CGPA ≥ 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 re-admitted 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).

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:

1. Mid Term Examination for 30 marks:
 - a. Part - A : Objective/quiz paper for 10 marks.
 - b. 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:

2. Assignment for 5 marks. (Average of 2 Assignments each for 5 marks)
3. Subject Viva-Vocce/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-Vocce/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.

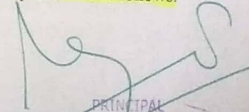
The student is eligible to write Semester End Examination of the concerned subject, if the student scores $\geq 35\%$ (14 marks) of 40 Continuous Internal Examination (CIE) marks.

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:

1. 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
2. **10 marks for viva-voce** (or) tutorial (or) case study (or) application (or) poster presentation of the course concerned.
3. 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

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.

8.4 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 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) 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 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 15 marks.
- 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 Supervisor and a Senior Faculty Member of the Department. There shall be **NO internal marks** 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

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 Viva-voce/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

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

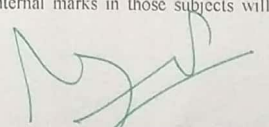
9.1 Grades will be awarded to indicate the performance of students in each Theory Subject, Laboratory/Practicals/ Industry-Oriented Mini Project/Internship/SDC and Project Stage. Based on the percentage of marks obtained (Continuous Internal Evaluation plus Semester End Examination, both taken together) 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 (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (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 $GP \geq 5$ ('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

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

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_i 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 i^{th} 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

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

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

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 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th} subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} subject. After registration and completion of 1 year I 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 Grade	Grade Points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$

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 ≥ 5.0 (in each semester), and CGPA (at the end of each successive semester) ≥ 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 re-admitted 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-

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 (numbered 2 to 6)

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.

8.3 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.

8.4 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 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 internal marks. There shall be no semester end examination for the seminar.

8.7 UG project work shall be carried out in two stages: Project Stage – I during IV Year I 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.

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

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.

8.10 The laboratory marks and the internal marks awarded by the college are subject to 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.**

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, seminar, Industry Oriented Mini Project, and project Stage - I & II. 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 (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
80 and less than 90%	A ⁺ (Excellent)	9
70 and less than 80%	A (Very Good)	8
60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (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.

- 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 $GP \geq 5$ ('C' grade or above)

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

- 7.5 After securing the necessary 192 credits as specified for the successful completion of the 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.
- 7.6 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 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.
- 7.7 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 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.
- 7.8 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 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.
- 7.9 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 student has been readmitted shall be applicable to him.

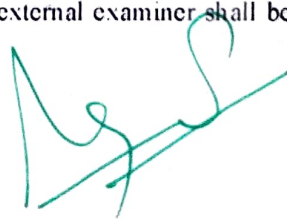
8.0 Evaluation - Distribution and Weightage of marks

8.1 The performance of a student in every subject/course (including practicals and 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).

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 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 mid-examination, 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 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.

8.3 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.

8.8 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.



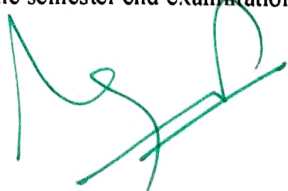
- 8.9 For mandatory courses Environmental Science, Professional Ethics and gender sensitization lab, a student has to secure 40 marks out of 100 marks (i.e. 40% of the marks allotted) in the continuous internal evaluation for passing the subject/course.
- 8.10 For mandatory courses NCC/ NSO and NSS, a 'satisfactory participation certificate' shall be issued to the student from the authorities concerned, only after securing $\geq 65\%$ 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

- 9.1 Marks will be awarded to indicate the performance of student in each theory subject, laboratory / 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/AICTE guidelines) and corresponding percentage of marks shall be followed:

% of Marks Secured in a Subject/Course (Class Intervals)	Letter Grade (UGC Guidelines)	Grade Points
Greater than or equal to 90%	O (Outstanding)	10
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60 and less than 70%	B ⁺ (Good)	7
50 and less than 60%	B (Average)	6
40 and less than 50%	C (Pass)	5
Below 40%	F (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.

- 9.4 A student who has not appeared for examination in any subject, 'Ab' grade will be 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.
- 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 The student passes the subject/ course only when $GP \geq 5$ ('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

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

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_i 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 i^{th} 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 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

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

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

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 1st semester onwards up to and inclusive of the 8th semester, 'j' is the subject indicator index (takes into account all subjects from 1 to 8 semesters), C_j is the no. of credits allotted to the j^{th}

subject, and G_j represents the grade points (GP) corresponding to the letter grade awarded for that j^{th} 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.

Illustration of calculation of SGPA

Course/Subject	Credits	Letter Grade	Grade Points	Credit Points
Course 1	4	A	8	$4 \times 8 = 32$
Course 2	4	O	10	$4 \times 10 = 40$
Course 3	4	C	5	$4 \times 5 = 20$
Course 4	3	B	6	$3 \times 6 = 18$
Course 5	3	A+	9	$3 \times 9 = 27$
Course 6	3	C	5	$3 \times 5 = 15$
	21			152

$$\text{SGPA} = 152/21 = 7.23$$

Illustration of calculation of CGPA:

Semester	Credits	SGPA	Credits x SGPA
Semester I	24	7	$24 \times 7 = 168$
Semester II	24	6	$24 \times 6 = 144$
Semester III	24	6.5	$24 \times 6.5 = 156$
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	$24 \times 8.5 = 204$
Semester VIII	24	8	$24 \times 8 = 192$
	192		1380

$$\text{CGPA} = 1380/192 = 7.18$$

- 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.



Name of the Student : Ayeshou.sk
 Branch : Civil
 Subject : C & C
 Year/Semester : 4(I)
 Signature of the Student : Aysha.sk

Roll No. :

1	5	T	8	1	0	1	0	1
---	---	---	---	---	---	---	---	---

Date :
 Max. Marks : 110
 Marks Obtained : 2/10
 Signature of the Valuer : [Signature]

[Signature]
 Signature of the Invigilator

MAIN ANSWER BOOK

3) Earth work for room of 6mts/5mts

Superstructure is brick

Masonry = 0.35mts

depth of stone masonry

footing = 0.60mts

concrete bed = 0.3mts.

excavation width 1.0mts

depth of excavation

$$= 0.60 + 0.30$$

$$= 0.90 \text{ mts.}$$

centre to centre.

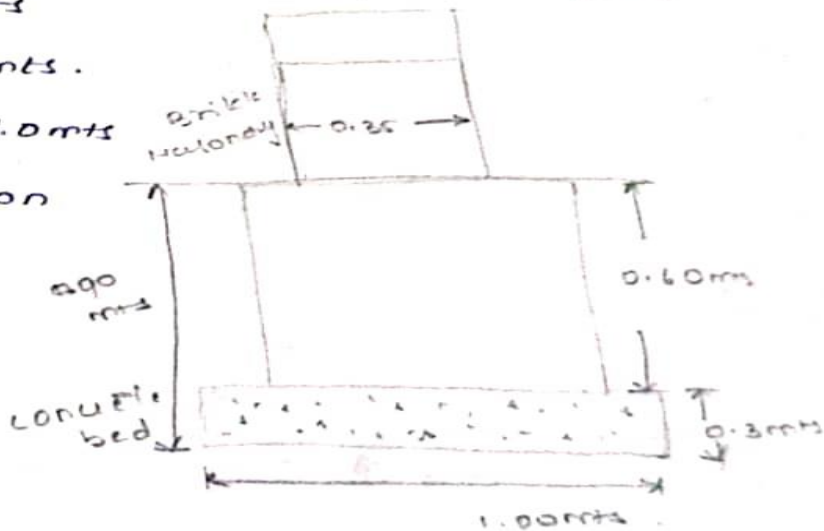
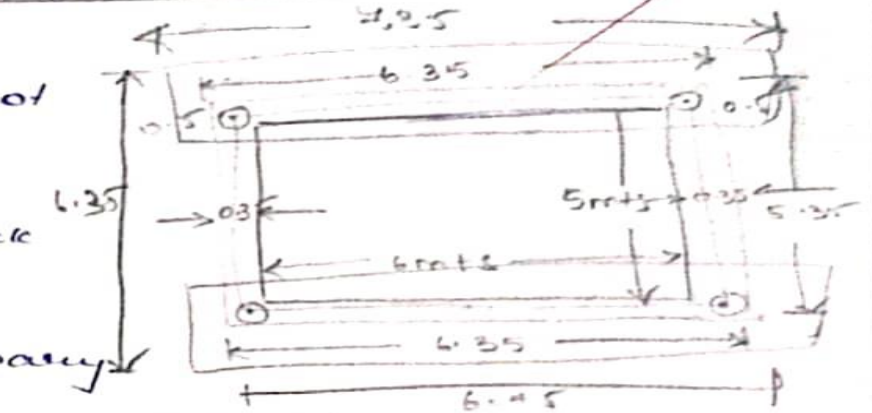
or centre line method.

length

$$= 2(6.00 + 0.3)$$

$$= 2(5.35 + 6.35)$$

$$= 23.4 \text{ mts}$$



long wall and short wall

$$2(LW + SW) / (LW + SW)$$

$$2(6.00 + 0.35 + 0.35) / (5.00 + 0.35 + 0.35)$$

$$= 2(6.35 + 5.35)$$

$$= 23.4 \text{ mts}$$

[Signature]
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 Pilgipur (V), Batasingaram (Post)
 Abdullapurmet (M), R.R. Dist. HYD-501 512.

COLLEGE CODE : T8

BOOKLET NUMBER :



Annamacharya Institute of Technology & Sciences

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MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : CIVIL Section : _____
 Year : 3rd Semester : 1 Mid Term Examination : 1 Month & Year : 12/2023
 Hall Ticket No :

2	1	T	8	1	A	0	1	0	1
---	---	---	---	---	---	---	---	---	---

 Name of the Student : K. Chaitanya Kumar
 Name of the Subject : Geotechnical engineering
 Date of the Exam : 13/12/23

[Signature]
 Signature of the Invigilator with date

[Signature]
 Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1		a		a	
		b		b	
2		a		a	
		b		b	
3		a		a	
		b		b	
4		a		a	
		b		b	
5		a		a	
		b		b	
Total					

Marks	Maximum	Awarded
Subjective	10	09
Objective	10	08
Assignment	05	05
Total	25	22

[Signature]
 Signature of the Evaluator with date

* 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 script would be treated as absent.

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COLLEGE CODE : T8



BOOKLET NUMBER :

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Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : civil Section : _____
 Year : II Semester : II Mid Term Examination : II Month & Year : 11
 Hall Ticket No :

2	2	T	8	1	A	0	U	0	1
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 Name of the Student : Y. Mamatha
 Name of the Subject : surveying
 Date of the Exam : 01.12.2024

[Signature]
Signature of the Invigilator with date

[Signature]
Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1	✓	a 10		a -	10
		b -		b -	-
2	✓	a 10		a -	10
		b -		b -	-
3	✓	a 10		a -	10
		b -		b -	-
4		a 05		a -	05
		b -		b -	-
5		a -		a -	-
		b -		b -	-
Total					35

Marks	Maximum	Awarded
Subjective	20	20
Objective	10	10
Assignment	10	5
Total	40	35

[Signature]
Signature of the Evaluator with date

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

INSTRUCTIONS TO THE CANDIDATES:

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BOOKLET NUMBER :

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MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : Civil
 Year : 2nd
 Semester : 1 Section : _____
 Hall Ticket No : 2578570101 Mid Term Examination : 2nd Month & Year : 2/2024
 Name of the Student : M. Anusula
 Name of the Subject : geology
 Date of the Exam : 02/02/2024

S. S.
 2-2-2024
 Signature of the Invigilator with date

M. Anusula 02/2/24
 Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1	✓	a	04	a	
		b		b	
2	✓	a	05	a	
		b		b	
3		a		a	
		b		b	
4		a		a	
		b		b	
5	✓	a	05	a	
		b		b	
6		Total			

Marks	Maximum	Awarded
Subjective	20	17
Objective	10	10
Assignment	05	05
Total	35	32

[Signature]
 Signature of the Evaluator with date

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

INSTRUCTIONS TO THE CANDIDATES:

- Students must be present in the examination hall 10 minutes before the commencement of the examination.
- Student must Write H.T.No., Name, Subject, Date & must be signed on the main answer book and attendance sheet.
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- 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.

[Signature]
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 Abdullapurmet (MD), R.R. Dist. HYD-501 512

COLLEGE CODE : T8

R22 Lab Internal CSE



BOOKLET NUMBER :

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Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : CSE - DS Section : B
 Year : 1st Semester : 1st Mid Term Examination : 1st Month & Year : Nov-23
 Hall Ticket No : 23 T 8 1 A 6 7 0 4
 Name of the Student : V. Jaswanth
 Name of the Subject : PPS - Lab
 Date of the Exam : 25-11-2023

(Signature)
 Signature of the Invigilator with date

(Signature)
 Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1		a		a	15
		b		b	
2		a		a	15
		b		b	
3		a		a	
		b		b	
4		a		a	
		b		b	
5		a		a	
		b		b	
Total					

Marks	Maximum	Awarded
Subjective	30	30
Objective		
Assignment Viva	10	10
Total	40	40

(Signature)
 Signature of the Evaluator with date

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

INSTRUCTIONS TO THE CANDIDATES

- Students must be present in the examination hall 10 minutes before the commencement of the examination.
- Student must Write H.T.No., Name, Subject, Date & must be signed on the main answer book and attendance sheet.
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EXAMINATION BRANCH
PRACTICAL EXAMINATION ANSWER BOOK

R22 - Lab Exte
CE

College Stamp

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PRINCIPAL'S FASCIMILE →

No.: **24166128**
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(8 pages)

H.T.No.:

2	3	T	8	1	A	0	5	6	5
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K. Venkateswara Rao
Controller of Examinations

Name of the Examination 1st btech 1st Sem lab external Branch CSE-B

Lab Subject PPS Lab Date 22-01-24

[Handwritten Signature]
Signature of the Student with date 22/01/24

[Handwritten Signature]
Signature of Internal Examiner with date

- Candidates are prohibited from:
 - Writing their Hall Ticket No. in any part of their Answer Books except in the space specially provided for the purpose.
 - Writing their names or symbols in any manner whatsoever in their Answer Books.
 - Addressing the examiner in any manner whatsoever in their Answer Books.

If they do so, their Answer Books will not be valued and the student will be booked under Malpractice case.
- The candidates are not allowed into the Lab (where the Lab Exam is scheduled), after 30 minutes from the time of commencement of the examination.
- The candidates are not allowed to leave the Lab (where the Lab Exam is scheduled), for first 1 1/2 hours from the time of commencement of the examination.
- The candidate should not forget to enter Hall Ticket Number. Otherwise their Answer Book will not be valued.
- Before beginning to answer any question, the candidate should write the correct question number.
- Answer should be written on both sides of the paper.
- Please leave a margin of 2.5 cm on the left side of each page. Do not write anything in the margin except the question numbers.
- No loose sheets of paper will be allowed in to the Lab where the Exam is scheduled and no paper must be detached from the Answer Book
- All additional Answer Sheets and Graph Sheets, if used, should be attached before the last sheet of the main Answer Book and fastened securely.
- Answer must be legible.
- This Answer Book should be handed to one of the examiners before leaving the Lab.
- The Candidate should not be allowed to enter the examination hall for malpractice for damaging / not returning the Answer Book after the examination.

For Examiners' Award only

Description	Marks
Design / Code	30
Execution	10
Output / Results	10
Viva - Exam	10
Total	60

Total Marks obtained	60
Maximum Marks	60

[Handwritten Signature]
Signature of External Examiner with date 22/01/24

[Handwritten Signature]
Signature of Internal Examiner with date 22/01/24

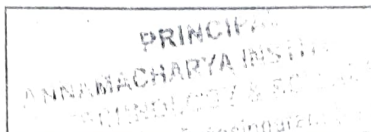
PRINCIPAL
Annamacharya Institute of
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Pigulur (V), Batasingaram (Post)
Narasaraopet (M), R.R. Dist. Hyd-501 512



EXAMINATION BRANCH
PRACTICAL EXAMINATION ANSWER BOOK

R18 Lab External
CSE

College Stamp



No.:

21428662

(8 pages)

PRINCIPAL'S FASCIMILE →

[Handwritten Signature]

H.T.No.:

1 8 T 8 1 A 0 5 0 2

S. Taru kalyan
Controller of Examinations

Name of the Examination 2nd year 2nd sem lab external Branch CSE

Lab Subject DBMS Lab Date 07/10/2020

A. Anand
Signature of the Student with date

[Signature]
Signature of Internal Examiner with date

1. Candidates are prohibited from :

- i) Writing their Hall Ticket No. in any part of their Answer Books except in the space specially provided for the purpose.
- ii) Writing their names or symbols in any manner whatsoever in their Answer Books.
- iii) Addressing the examiner in any manner whatsoever in their Answer Books.

If they do so, their Answer Books will not be valued and the student will be booked under Malpractice case.

- 2. The candidates are not allowed into the Lab (where the Lab Exam is scheduled), after 30 minutes from the time of commencement of the examination.
- 3. The candidates are not allowed to leave the Lab (where the Lab Exam is scheduled), for first 1½ hours from the time of commencement of the examination.
- 4. The candidate should not forget to enter Hall Ticket Number. Otherwise their Answer Book will not be valued.
- 5. Before beginning to answer any question, the candidate should write the correct question number.
- 6. Answer should be written on both sides of the paper.
- 7. Please leave a margin of 2.5 cm on the left side of each page. Do not write anything in the margin except the question numbers.
- 8. No loose sheets of paper will be allowed in to the Lab where the Exam is scheduled and no paper must be detached from the Answer Book
- 9. All additional Answer Sheets and Graph Sheets, if used, should be attached before the last sheet of the main Answer Book and fastened securely.
- 10. Answer must be legibly written.
- 11. This Answer Book should be returned to one of the examiners before leaving the Lab.
- 12. The Candidate will be booked under malpractice for damaging / not returning the Answer Book after the examination.

For Examiners' Award only

Description	Marks
Design / Code	25
Execution	20
Output / Results	13
Viva - Exam	10
Total	68

Total Marks obtained	68
Maximum Marks	75

[Signature]
Signature of External Examiner with date

[Signature]
Signature of Internal Examiner with date

PRINCIPAL
Annamacharya Institute of
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Pitlagur (V), Batasingaram (Post)

COLLEGE CODE : T8

RUB MID ECE



BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : ECE Section : _____
 Year : IIIrd Semester : I Mid Term Examination : I Month & Year : 12/23
 Hall Ticket No :

2	1	T	8	1	A	0	4	0	9
---	---	---	---	---	---	---	---	---	---

 Name of the Student : K. Lavanya
 Name of the Subject : Data Communications & Networks
 Date of the Exam : 13-12-2023

[Signature]
Signature of the Invigilator with date

[Signature]
Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1		a		a	05
		b		b	
2		a		a	
		b		b	
3		a		a	04
		b		b	
4		a		a	05
		b		b	
5		a		a	
		b		b	
Total					10

Marks	Maximum	Awarded
Subjective		
Objective		
Assignment		
Total	10	10

[Signature]
Signature of the Evaluator with date

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

INSTRUCTIONS TO THE CANDIDATES:

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Annamacharya Institute of Technology & Science

PIGLIPUR, BATASINGARAM (V), HAYATH NAGAR (M), R.R. DIST., HYDERABAD - 501 512.

Date : 08/02/201

Name of the Student : M. Rahul

Rib mid use

Roll No. : 16T81A054

Branch : CSE-B

Subject : OS

Max. Marks : 10

Year/Semester : 2nd/II

Marks Obtained : 09

Signature of the Student

Signature of the Invigilator

Signature of the Va

MAIN ANSWER BOOK

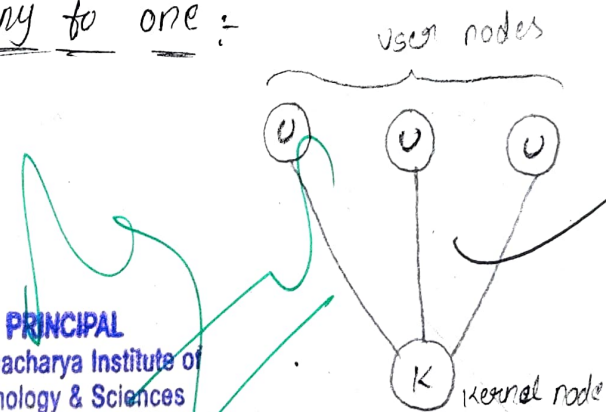
2

b) Multi Threading Models:-

Multi threading models are defined as that either by user mode from user level or kernel mode from kernel level. on both user and kernel mode the multi threading is classified into three types. They are,

- 1) Many to one operation
- 2) one to one operation
- 3) many to many operation

1) Many to one :-



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In many to one operation, the many user are mapping onto the single kernel node. one



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Name of the Student : S. Ajay Kumar

Branch : ECE

Subject : DC

Year/Semester : IVth 2nd

Signature of the Student

Date : 21/11/19

Roll No. : 17T81A0201

Max. Marks : 10

Marks Obtained : 10

Signature of the Invigilator

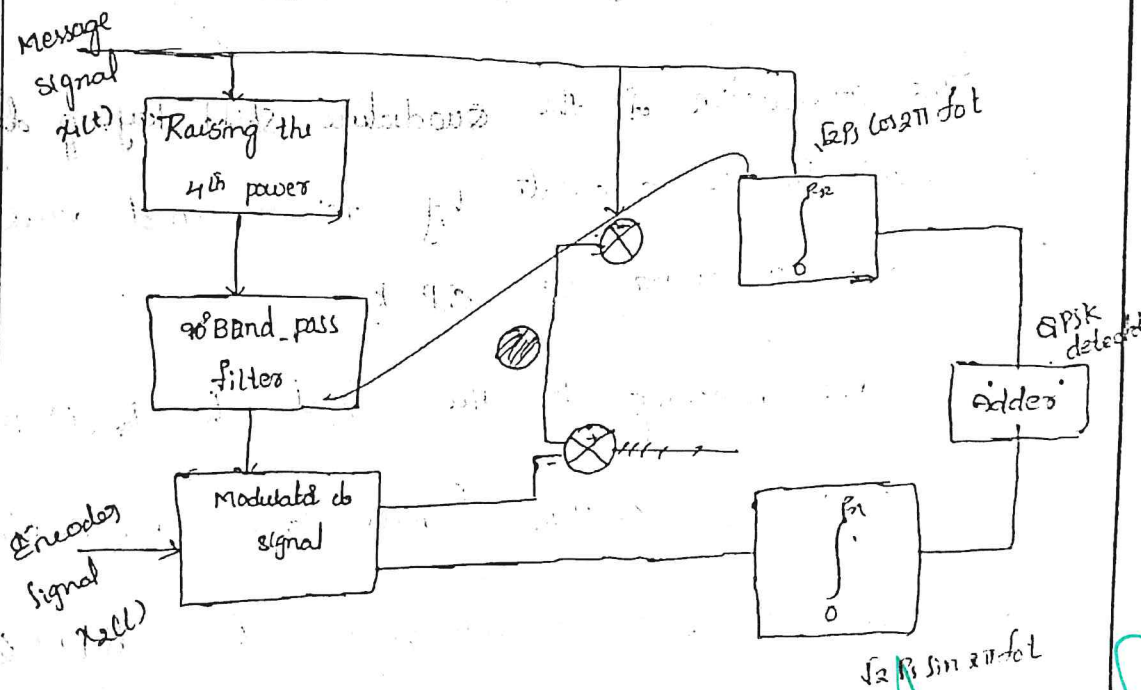
Signature of the Valuer

MAIN ANSWER BOOK

3.

QPSK Modulator :-

Quadrature space phase shift keying modulator. using the channel and the transmitter and Receiver were the QPSK. Separate the QPSK Modulator.



Transmitter of the QPSK Modulator

The QPSK of the hopping spread spectrum is Quadrature Phase Shift keying modulated by including by removed by them $\sqrt{2} P_s \cos 2\pi f_c t$ are



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. Bheem Reddy

Roll No. : 17T81A0404

Branch : ECE

Max. Marks : 25

Subject : DC (internal lab)

Marks Obtained : 21

Year/Semester : 2018-19 III-I

Signature of the Valuer

Signature of the Student

Signature of the Invigilator

MAIN ANSWER BOOK

Aim :- To generate and detection (demodulation) of Amplitude Shifting key

Apparatus

- ASK trainer kit
- CRO
- connecting wires

THEORY

ASK means Amplitude Shifting key the Amplitude changes according the carrier i/p of modulation data. In this generation and detection (demodulation) of ASK waveforms

When we give binary data i/p, the output will change. When the i/p is zero there is no amplitude when i/p is 1 there will be rise in Amplitude.

Amplitude varies according to the i/p data given here i/p is the carrier wave.

In this experiment we use CRO to observe the waveforms generated

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COLLEGE CODE : T8



BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : ECE
 Year : 3rd Semester : IInd Mid Term Examination : IInd Month & Year : 06/23
 Hall Ticket No : 20T81A0408
 Name of the Student : S. Naveen
 Name of the Subject : VLST
 Date of the Exam : 28/06/2023

Signature of the Invigilator with date

Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1		a 5		a	5
		b		b	
2		a 5		a	5
		b		b	
3		a		a	
		b		b	
4		a		a	
		b		b	
5		a		a	
		b		b	
Total					10

Marks	Maximum	Awarded
Subjective	10	10
Objective	10	08
Assignment	5	5
Total	25	23

Signature of the Evaluator with date

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

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COLLEGE CODE : T8



BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : ECE
 Year : 3rd Semester : 2nd Mid Term Examination : Section :
 Month & Year : June 2023
 Hall Ticket No : 20T81A0408
 Name of the Student : S.Naveen
 Name of the Subject : E-CAD Lab
 Date of the Exam : 06/06/2023

[Signature]
 Signature of the Invigilator with date

S.Naveen
 06/06/2023
 Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1		a		a	
		b		b	
2		a		a	
		b		b	
3		a		a	
		b		b	
4		a		a	
		b		b	
5		a		a	
		b		b	
Total					

Marks	Maximum	Awarded
Subjective <i>Writup</i>	10	10
Objective <i>Observation</i>	10	10
Assignment <i>Viva</i>	5	01
Total	25	21

[Signature]
 Signature of the Evaluator with date

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

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 Andhra Pradesh - 501 512

COLLEGE CODE : T8



BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : ECE
 Year : 1 Semester : 3 Section :
 Hall Ticket No : 2 2 T 8 1 A 0 4 3 2
 Name of the Student : Sonam Kumari
 Name of the Subject : EDC
 Date of the Exam : 21/06/2023

[Signature]
 Signature of the Invigilator with date

[Signature]
 Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total		
	✓	SECTION - A		✓		SECTION - B	
1		a	5		a		5
		b			b		
2		a			a		
		b			b		
3		a	5		a		5
		b			b		
4		a	5		a		5
		b			b		
5		a			a		
		b			b		
Total					15		

	Marks	Maximum	Awarded
Subjective	20	15	15
Objective	10	08	08
Assignment	5	5	5
Total	35	28	28

[Signature]
 Signature of the Evaluator with date

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

INSTRUCTIONS TO THE CANDIDATES:

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 Abdullapurmet (M), R.R. Dist - 501 512.

COLLEGE CODE : T8



BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

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MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : ECE Section : _____
 Year : 1 Semester : II Mid Term Examination : _____ Month & Year : 08/2023
 Hall Ticket No :

2	2	T	8	1	A	0	4	3	2
---	---	---	---	---	---	---	---	---	---

 Name of the Student : Sonam Kumari
 Name of the Subject : Electronic devices and Circuits lab
 Date of the Exam : 11/08/2023

[Signature]
 11/8/23
 Signature of the Invigilator with date

[Signature]
 11/08/2023
 Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1		a		a	
		b		b	
2		a		a	
		b		b	
3		a		a	
		b		b	
4		a		a	
		b		b	
5		a		a	
		b		b	
Total					

Marks	Maximum	Awarded
Subjective <u>Writing</u>	20	20
Objective <u>observation</u>	10	08
Assignment <u>Viva</u>	10	04
Total	40	32

[Signature]
 11/8/23
 Signature of the Evaluator with date

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

INSTRUCTIONS TO THE CANDIDATES:

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COLLEGE CODE : T8



BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.DI.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : ECE Section :
 Year : III Semester : I Mid Term Examination : I Month & Year : 12/23

Hall Ticket No : 22T85A0404

Name of the Student : S. Rishitha

Name of the Subject : Microprocessors & Memory Controller

Date of the Exam : 13/12/2023

Signature of the Invigilator with date

Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1	✓	a 2		a	2
		b 3		b	3
2		a		a	
		b		b	
3	✓	a 2		a	2
		b 3		b	3
4		a		a	
		b		b	
5		a		a	
		b		b	
Total					10

Marks	Maximum	Awarded
Subjective	10	10
Objective	10	09
Assignment	05	05
Total	25	24

Signature of the Evaluator with date

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

INSTRUCTIONS TO THE CANDIDATES:

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Piglipur (V), Batasingaram (Post)
Abdullapurmet (M), R.R.DI. HYD-501 512



Annamacharya Institute of Technology & Sciences

PIGLIPUR (V), BATASINGARAM (P), ABDULLAPURMET (M), R.R.DIST., HYDERABAD - 501 512.

Name of the Student : A. Anil kumar

Date : 23/11/2019

Branch : Mechanical Engineering

Roll No. : 17T81A0301

Subject : DM

Max. Marks : 10

Year/Semester : 3rd / 1st

Marks Obtained : 10

Signature of the Student

Signature of the Invigilator

Signature of the Valuer

MAIN ANSWER BOOK

3) a) Media means which shows on which convey everything to the people around world about politics, information, technology and present situation.

Television, radio, and social media like facebook, twitter, instgram all under comes mass media.

Impact and role of media in disaster management

- Media acts as a connecting link between effected areas and other people in DM
- It shows the before and after disaster situations
- It telecast everything about disaster effected areas
- sometimes government seek the help of media to know about the situation.
- Due to media the news reached to the celebrities and they will try to donate money as they can do.
- Many celebrities, business persons, communities and some normal people come forward to give donations
- Media also increase the pressure on government to give fund for affected people

Neeraj



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Name of the Student : A. Anil Kumar

Date : 13/11/2019

Branch : Mechanical

Roll No. : 17T81A0301

Subject : Machine tools Internal lab

Max. Marks : 25

Year/Semester : 3rd/1st

Marks Obtained : 23

Signature of the Student

Signature of the Invigilator

Signature of the Valuer

MAIN ANSWER BOOK

① Thread cutting and Knurling

Aim:- To perform V-thread cutting on a lathe turning boring right and left hand metric threads

Tools and equipments:-

H.S.S single point cutting tool, grooving tool, threading tool thread gauge, outside calliper chuck key, Tool post key, steel rule

Operation chart

S.No	Sequence & operation	Cutting tool used
1	Facing	H.S.S single point cutting tool
2	Rough turning	H.S.S single point cutting tool
3	Finish turning	H.S.S single point cutting tool
4	step turning	H.S.S single point cutting tool
5	Grooving	Grooving tool
6	Thread cutting	Threading tool
7	Chamfering	H.S.S single point cutting tool

Principle of thread cutting:-

to produce a helical groove on a cylindrical or conical surface by feeding the tool longitudinally when the job is revolved between centres or by a chuck

Handwritten signature



COLLEGE CODE : T8

BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : MECH Section : _____
 Year : III Semester : I Mid Term Examination : I Month & Year : 12/23
 Hall Ticket No :

2	1	T	8	1	A	0	3	0	1
---	---	---	---	---	---	---	---	---	---

 Name of the Student : Slk. Ayub
 Name of the Subject : DMM-I
 Date of the Exam : 13-12-2023

Ukhar
 13/12/23
 Signature of the Invigilator with date

Slk. Ayub
 13/12/23
 Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total	
	✓	SECTION - A		✓		SECTION - B
1	✓	a	3		a	3
	✓	b	2		b	2
2	✓	a	2		a	2
	✓	b	2		b	1
3		a			a	
		b			b	
4		a			a	
		b			b	
5		a			a	
		b			b	
Total						08

Marks	Maximum	Awarded
Subjective	10	08
Objective	10	07
Assignment	05	05
Total	25	20

Vishal Rai
 Signature of the Evaluator with date

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

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COLLEGE CODE : T8



BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

Piglipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : Mechanical Section : _____
 Year : II Semester : II Mid Term Examination : II Month & Year : Sept-23

Hall Ticket No :

2	2	T	8	S	A	0	3	0	2
---	---	---	---	---	---	---	---	---	---

Name of the Student : M. Praveen

Name of the Subject : EMHM LAB

Date of the Exam : 8-9-23

Vishal Rai
Signature of the Invigilator with date

M. Praveen 8-9-23
Signature of the Student with date

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	SECTION - A	SECTION - B	SECTION - A	SECTION - B	
1	a	12	a		12
	b		b		
2	a	12	a		14
	b		b		
3	a		a		
	b		b		
4	a		a		
	b		b		
5	a		a		
	b		b		
Total					24

Marks	Maximum	Awarded
Subjective		
Objective		
Assignment		
Total	195	24

Vishal Rai
Signature of the Evaluator with date

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

INSTRUCTIONS TO THE CANDIDATES:

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 Abdullapurmet (M), R.R. Dist. HYD-501 512



COLLEGE CODE : T8

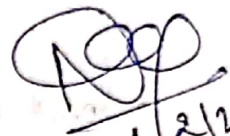
BOOKLET NUMBER :


Annamacharya Institute of Technology & Sciences

Pilgipur, Batasingaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : MECHANICAL Section : _____
 Year : II Semester : I Mid Term Examination : I Month & Year : 02/24
 Hall Ticket No : 22T81A0301
 Name of the Student : R. Praveen Kumar
 Name of the Subject : MECHANICS OF SOLIDS.
 Date of the Exam : 01-02-2024

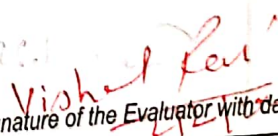

 Signature of the Invigilator with date
1/2/24


 Signature of the Student with date
01/02/2024

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1	✓	a 4		a	4
		b		b	
2	✓	a 5		a	5
		b		b	
3	✓	a 5		a	5
		b		b	
4	✓	a 4		a	4
		b		b	
5		a		a	
		b		b	
Total					19

	Marks	Maximum	Awarded
Subjective	20	10	10
Objective	10	08	08
Assignment	05	05	05
Total	35	31	31


 Signature of the Evaluator with date
2/2/24

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

INSTRUCTIONS TO THE CANDIDATES:

- Students must be present in the examination hall 10 minutes before the commencement of the examination.
- Student must Write H.T.No., Name, Subject, Date & must be signed on the main answer book and attendance sheet.
- Student must adhere to all instructions given by an Invigilator prior to, during and immediately after an examination.
- 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.

PRINCIPAL
 Annamacharya Institute of
 Technology & Sciences
 Pilgipur (V), Batasingaram (Dist)
 501512 (R.R. Dt. HYD), MYS-501512

COLLEGE CODE : T8



BOOKLET NUMBER :

Annamacharya Institute of Technology & Sciences

Piglipur, Batasngaram Panchayath, Abdullapurmet Mandal, Hayathnagar, R.R.Dt.HYD - 501 512.

MID / LAB INTERNAL EXAMINATION ANSWER BOOKLET

Course : B.Tech / M.Tech / MBA
 Branch : MECH Section :
 Year : 2nd Semester : Ist Mid Term Examination : Month & Year :
 Hall Ticket No : 23T85A0302
 Name of the Student : M. Deepak
 Name of the Subject : MOS Lab & MSM
 Date of the Exam : 6/7/2024

Signature of the Invigilator with date
 Vishal Kai

Signature of the Student with date
 M

MARKS AWARDED FOR QUESTIONS

Q.No	Marks Awarded				Sub Total
	✓	SECTION - A	✓	SECTION - B	
1	✓	a 18		a	18
		b		b	
2	✓	a 18		a	18
		b		b	
3		a		a	
		b		b	
4		a		a	
		b		b	
5		a		a	
		b		b	
Total					36

Marks	Maximum	Awarded
Subjective		
Objective		
Assignment		
Total	40	36

Signature of the Evaluator with date
 Vishal Kai

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

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