

Criterion 2

Teaching- Learning and Evaluation

Key Indicator-2.5

Evaluation Process and Reforms

2.5.1. Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient

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ANNA UNIVERSITY : : CHENNAI - 600 025

AFFILIATED INSTITUTIONS

REGULATIONS 2017

CHOICE BASED CREDIT SYSTEM

Common to all B.E. / B.Tech. Full-Time Programmes

(For the students admitted to B.E. / B.Tech. Programme at various Affiliated Institutions)

DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY

This Regulations is applicable to the students admitted to B.E./B.Tech. Programmes at all Engineering Colleges affiliated to Anna University, Chennai (other than Autonomous Colleges) and to all the University Colleges of Engineering of Anna University, Chennai from the academic year 2017-2018 onwards.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- I) **“Programme”** means Degree Programme, that is B.E./B.Tech. Degree Programme.
- II) **“Discipline”** means specialization or branch of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Technology, etc.
- III) **“Course”** means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.
- IV) **“Director, Academic Courses”** means the authority of the University who is responsible for all academic activities of the Academic Programmes for implementation of relevant rules of this Regulations pertaining to the Academic Programmes.
- V) **“Chairman”** means the Head of the Faculty.
- VI) **“Head of the Institution”** means the Principal of the College.
- VII) **“Head of the Department”** means head of the Department concerned.
- VIII) **“Controller of Examinations”** means the authority of the University who is responsible for all activities of the University Examinations.
- IX) **“University”** means ANNA UNIVERSITY, CHENNAI.


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2. ADMISSION

2.1 Candidates seeking admission to the first semester of the eight semester B.E. / B.Tech. Degree Programme:

Should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

2.2 Lateral entry admission

(i) The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamilnadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech. in the branch corresponding to the branch of study.

(OR)

(ii) The candidates who possess the Degree in Science (B.Sc.,) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.

Such candidates shall undergo two additional Engineering subject(s) in the **third and fourth semesters** as prescribed by the University.

3. PROGRAMMES OFFERED


B.E. / B.Tech. Programmes under the Faculty of Civil Engineering, Faculty of Mechanical Engineering, Faculty of Electrical Engineering, Faculty of Information and Communication Engineering and Faculty of Technology.

4. STRUCTURE OF PROGRAMMES

4.1 Categorization of Courses

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- i. **Humanities and Social Sciences (HS)** courses include Technical English, Engineering Ethics and Human Values, Communication skills, Environmental Science and Engineering.
- ii. **Basic Sciences (BS)** courses include Mathematics, Physics, Chemistry, Biology, etc.
- iii. **Engineering Sciences (ES)** courses include Engineering practices, Engineering Graphics, Basics of Electrical / Electronics / Mechanical / Computer Engineering, Instrumentation etc.
- iv. **Professional Core (PC)** courses include the core courses relevant to the chosen specialization/branch.
- v. **Professional Elective (PE)** courses include the elective courses relevant to the chosen specialization/ branch.


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- vi. **Open Elective (OE)** courses include the courses from other branches which a student can choose from the list specified in the curriculum of the students B.E. / B. Tech. / B. Arch. Programmes.
- vii. **Employability Enhancement Courses (EEC)** include Project Work and/or Internship, Seminar, Professional Practices, Case Study and Industrial/Practical Training.

4.2 Personality and Character Development

All students shall enroll, on admission, in any one of the personality and character development programmes (NCC/NSS/NSO/YRC) and undergo training for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid.

National Cadet Corps (NCC) will have about 20 parades.

National Service Scheme (NSS) will have social service activities in and around the College / Institution.

National Sports Organization (NSO) will have sports, Games, Drills and Physical exercises.

Youth Red Cross (YRC) will have activities related to social services in and around College/Institutions.

While the training activities will normally be during weekends, the camp will normally be during vacation period.

4.3 Number of courses per semester


Each semester curriculum shall normally have a blend of lecture courses not exceeding 7 and Laboratory courses and Employability Enhancement Course(s) not exceeding 4. Each Employability Enhancement Course may have credits assigned as per clause 4.4. However, the total number of courses per semester shall not exceed 10.

4.4 Credit Assignment

Each course is assigned certain number of credits based on the following:

Contact period per week	CREDITS
1 Lecture Period	1
2 Tutorial Periods	1
2 Laboratory Periods (also for EEC courses like / Seminar / Project Work / Case study / etc.)	1

The Contact Periods per week for Tutorials and Practical can only be in multiples of 2.


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4.5. Industrial Training / Internship

The students may undergo Industrial training for a period as specified in the Curriculum during summer / winter vacation. In this case the training has to be undergone continuously for the entire period.

The students may undergo Internship at Research organization / University (after due approval from the Department Consultative Committee) for the period prescribed in the curriculum during summer / winter vacation, in lieu of Industrial training.

4.6 Industrial Visit

Every student is required to go for at least one Industrial Visit every year starting from the second year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

4.7 Value Added Courses

The Students may optionally undergo Value Added Courses and the credits earned through the Value Added Courses shall be over and above the total credit requirement prescribed in the curriculum for the award of the degree. One / Two credit courses shall be offered by a Department of an institution with the prior approval from the Head of the Institution. The details of the syllabus, time table and faculty may be sent to the Centre for Academic Courses and the Controller of Examinations after approval from the Head of the Institution concerned atleast one month before the course is offered. **Students can take a maximum of two one credit courses / one two credit course** during the entire duration of the Programme.

4.8 Online Courses


4.8.1 Students may be permitted to credit only one online course of 3 credits with the approval of **Head of the Institution** and Centre for Academic Courses.

4.8.2 Students may be permitted to credit one online course (which are provided with certificate) subject to a maximum of three credits. The approved list of online courses will be provided by the Centre for Academic courses from time to time. The student needs to obtain certification or credit to become eligible for writing the End Semester Examination to be conducted by Controller of Examinations, Anna University. The details regarding online courses taken up by students should be sent to the Controller of Examinations, Anna University and Centre for Academic Courses one month before the commencement of End Semester Examination.

4.9 The students satisfying the following conditions shall be permitted to carry out their final semester Project work for six months in industry/research organizations.

The student should not have current arrears and shall have CGPA of 7.50 and above.

The student shall undergo the eighth semester courses in the sixth and seventh semesters. The Head of Department, in consultation with the faculty handling the said courses shall forward the proposal recommended by the Head of Institution to the Controller of Examinations through the Director, Centre for Academic courses for approval at least 4 weeks before the commencement of the sixth semester of the programme for approval.


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4.10 Medium of Instruction

The medium of instruction is English for all courses, examinations, seminar presentations and project / thesis / dissertation reports except for the programmes offered in Tamil Medium.

5. DURATION OF THE PROGRAMME

- 5.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (four academic years) but in any case not more than 14 Semesters for HSC (or equivalent) candidates and not more than 12 semesters for Lateral Entry Candidates.
- 5.1.1 A student is ordinarily expected to complete the B.E. Mechanical Engineering (Sandwich) Programme in 10 semesters (five academic years) but in any case not more than 18 Semesters for HSC (or equivalent) candidates.
- 5.2 Each semester shall normally consist of 75 working days or 540 periods of 50 minutes each. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.
- 5.3 The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 6) by the students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{(\text{No. of periods / week as prescribed in the curriculum}) \times 15} \times 100$$

taken together for all courses of the semester

The University Examination will ordinarily follow immediately after the last working day of the semester commencing from I semester as per the academic schedule prescribed from time to time.

- 5.4 The total period for completion of the programme reckoned from the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study (vide clause 18) in order that he/she may be eligible for the award of the degree (vide clause 16).


6. COURSE REGISTRATION

- 6.1 The Institution is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits (vide clause 6.2)). The student can also register for courses for which the student has failed in the earlier semesters.

The registration details of the candidates may be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations. No Elective course shall be offered by any department of any institution unless a minimum 10 students register for the course. However, if the students admitted in the associated Branch and Semester is less than 10, this minimum will not be applicable.

The courses that a student registers in a particular semester may include

- i. Courses of the current semester.
- ii. The core (Theory/Lab /EEC) courses that the student has not cleared in the previous semesters.
- iii. Elective courses which the student failed (either the same elective or a different elective instead).


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6.2 Flexibility to Drop courses

- 6.2.1 A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree.
- 6.2.2 From the III to final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses cannot exceed 6.
- 6.2.3 The student shall register for the project work in the final semester only.

7. ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE SEMESTER

- 7.1 A Candidate who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester.

Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as Medical / participation in sports, the student is expected to attend atleast 75% of the classes.

Therefore, he/she shall **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance as calculated as per clause 5.3.

- 7.2 However, a candidate who secures overall attendance between 65% and 74% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / Participation in Sports events may be permitted to appear for the current semester examinations subject to the condition that the candidate shall submit the medical certificate / sports participation certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.
- 7.3 Candidates who **secure less than 65% overall attendance and candidates who do not satisfy the clause 7.1 and 7.2** shall not be permitted to write the University examination at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

8. CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the (course-instructors) of the class. He / She will be appointed by the HoD of the department concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HoD and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.
- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

9. CLASS COMMITTEE

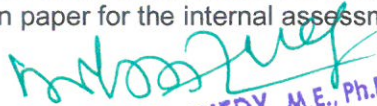
- 9.1. Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include

- Solving problems experienced by students in the class room and in the laboratories.

- **Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 5 and 7) which should be displayed on college Notice-Board.**
 - Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
 - Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
 - Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
 - Identifying the weak students, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such weak students.
- 9.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.
- 9.3 The class committee shall be constituted within the first week of each semester.
- 9.4 At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee.
- 9.5 The Chairperson of the class committee may invite the Class adviser(s) and the Head of the Department to the class committee meeting.
- 9.6 The Head of the Institution may participate in any class committee of the institution.
- 9.7 The chairperson is required to prepare the minutes of every meeting, submit the same to Head of the Institution within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Head of the Institution.
- 9.8 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. **The Class Committee Chairman shall put on the Notice Board the cumulative attendance particulars of each student at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 6 of this Regulation.** During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

10. COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as Course Coordinator. The nomination of the Course Coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the course committee may also prepare a common question paper for the internal assessment test(s).


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11. SYSTEM OF EXAMINATION

- 11.1 Performance in each course of study shall be evaluated based on (i) continuous internal assessment throughout the semester and (ii) University examination at the end of the semester.
- 11.2 Each course, both theory and practical (including project work & viva voce Examinations) shall be evaluated for a maximum of 100 marks.
- For all theory and practical courses including project work, the continuous internal assessment will carry **20 marks** while the End - Semester University examination will carry **80 marks**.
- 11.3 Industrial training and seminar shall carry 100 marks and shall be evaluated through internal assessment only.
- 11.4 The University examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.
- 11.5 The University examination for project work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.
- 11.6 For the University examination in both theory and practical courses including project work the internal and external examiners shall be appointed by the Controller of Examinations.

12. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

For all theory and practical courses (including project work) the continuous assessment shall be for a maximum of 20 marks. The above continuous assessment shall be awarded as per the procedure given below:

12.1 THEORY COURSES

Three tests each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all tests put together out of 300, shall be proportionately reduced for 20 marks and rounded to the nearest integer (This also implies equal weightage to all the three tests).

12.2 LABORATORY COURSES

The maximum marks for Internal Assessment shall be 20 in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 20 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be reduced to 20 and rounded to the nearest integer.

12.3 THEORY COURSES WITH LABORATORY COMPONENT

If there is a theory course with Laboratory component, there shall be three tests: the first two tests (each 100 marks) will be from theory portions and the third test (maximum mark 100) will be for laboratory component. The sum of marks of first two tests shall be reduced to 60 marks and the third test mark shall be reduced to 40 marks. The sum of these 100 marks may then be arrived at for 20 and rounded to the nearest integer.

12.4 PROJECT WORK

Project work may be allotted to a single student or to a group of students not exceeding 4 per group.

The Head of the Institutions shall constitute a review committee for project work for each branch of study. There shall be three reviews during the semester by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 20 marks** and rounded to the nearest integer (as per the scheme given in 12.4.1).

- 12.4.1 The project report shall carry a maximum 30 marks. The project report shall be submitted as per the approved guidelines as given by Director, Academic Courses. Same mark shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 50 marks. Marks are awarded to each student of the project group based on the individual performance in the viva-voce examination.

Review I	Review II	Review III	End semester Examinations				
			Thesis Submission (30)		Viva-Voce (50)		
			Internal	External	Internal	External	Supervisor
5	7.5	7.5	15	15	15	20	15


- 12.4.2 If a candidate fails to submit the project report on or before the specified deadline, he/she is deemed to have failed in the Project Work and shall re-register for the same in a subsequent semester.

12.5 OTHER EMPLOYABILITY ENHANCEMENT COURSES

- (a) The seminar / Case study is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by Head of the Institution will evaluate the seminar and at the end of the semester the marks can be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).
- (b) The Industrial / Practical Training, Summer Project, Internship, shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical training / internship / Summer Project, the candidate shall submit a certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a Viva-Voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.

12.6 ASSESSMENT FOR VALUE ADDED COURSE

The one / two credit course shall carry 100 marks and shall be evaluated through **continuous assessments only**. Two Assessments shall be conducted during the semester by the Department concerned. The total marks obtained in the tests shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior Faculty member nominated by the Head of the Institution shall monitor the evaluation process. The list of students along with the marks and the grades earned may be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations.


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12.7 ASSESSMENT FOR ONLINE COURSES

Students may be permitted to credit one online course (which are provided with certificate) subject to a maximum of three credits. The approved list of online courses will be provided by the Centre for Academic courses from time to time. **This online course of 3 credits can be considered instead of one elective course.** The student needs to obtain certification or credit to become eligible for writing the End Semester Examination to be conducted by Anna University. **The course shall be evaluated through the End Semester Examination only conducted by Controller of Examinations, Anna University.**

12.8. Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.

12.9 Attendance Record

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD' which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the department periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the department will put his signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Institution who will keep this document in safe custody (for five years). The University or any inspection team appointed by the University may verify the records of attendance and assessment of both current and previous semesters.

13. REQUIREMENTS FOR APPEARING FOR UNIVERSITY EXAMINATIONS

A candidate shall normally be permitted to appear for the University Examinations for all the courses registered in the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (subject to Clause 7).

A candidate who has already appeared for any subject in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

14. PASSING REQUIREMENTS


14.1 A candidate who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester University Examinations] with a minimum of 45% of the marks prescribed for the end-semester University Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and practical courses (including project work).

14.2 If a student fails to secure a pass in theory courses in the current semester examination, he/she is allowed to write arrear examinations for the next three consecutive semesters and their internal marks shall be carried over for the above mentioned period of three consecutive semesters. If a student fails to secure a pass in a course even after three consecutive arrear attempts, the student has to redo the course in the semester in which it is offered along with regular students.

That is, the students should have successfully completed the courses of (n minus 4)th semester to register for courses in nth semester.

Based on the above, the following prerequisites shall be followed for completing the degree programme:

- i. To enter into Semester V, the student should have no arrear in Semester I. Failing which the student shall redo the Semester I course/courses along with the regular students.


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- ii. To enter into Semester VI, the student should have no arrear in Semester II. Failing which the student shall redo the Semester II course/courses along with the regular students.
- iii. To enter into Semester VII, the student should have no arrear in Semester III. Failing which the student shall redo the Semester III course/courses along with the regular students.
- iv. To enter into Semester VIII, the student should have no arrear in Semester IV. Failing which the student shall redo the Semester IV course/courses along with the regular students.

In case, if he/she has not successfully completed all the courses of semester V at the end of semester VIII, he/she shall redo the Semester V courses along with regular students. For the subsequent semesters of VI, VII and VIII, the same procedure shall be followed, subject to the maximum permissible period for this programme.

Note:

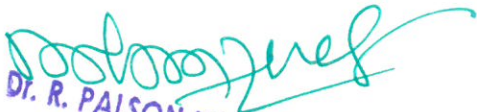
- The students who are admitted in **2017-2018 and 2018 – 2019** are permitted to appear for arrears upto VI semesters and will be allowed to move to VII semester only on completion of all the courses in the I semester.

In addition the following prerequisites shall be followed for completing the degree programme.

- i. To enter into Semester VII, the student should have no arrear in Semester I. Failing which the student shall redo the Semester I course/courses along with the regular students.
- ii. To enter into Semester VIII, the student should have no arrear in Semester II. Failing which the student shall redo the Semester II course/courses along with the regular students.

In case, if he/she has not successfully completed all the courses of semester III at the end of semester VIII, he/she shall redo the Semester III courses along with regular students. For the subsequent semesters of IV, V, VI, VII and VIII, the same procedure shall be followed, subject to the maximum permissible period for this programme.

- 14.3 If a student fails to secure a pass in a laboratory course, **the student shall register** for the course again, when offered next.
- 14.4 If a student fails to secure a pass in project work, **the student shall register** for the course again, when offered next.
- 14.5 The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except project work), is 50% of the internal assessment (continuous assessment) marks only.
- 14.6 A student can apply for revaluation of the student's semester examination answer paper in a theory course, within 2 weeks from the declaration of results, on payment of a prescribed fee along with prescribed application to the COE through the Head of the Institution. The COE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for laboratory course and project work.


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15. AWARD OF LETTER GRADES

- 15.1 All assessments of a course will be evaluated on absolute marks basis. However, for the purpose of reporting the performance of a candidate, letter grades, each carrying certain number of points, will be awarded as per the range of total marks (out of 100) obtained by the candidate in each subject as detailed below:

Letter Grade	Grade Points	Marks Range
O (Outstanding)	10	91 - 100
A + (Excellent)	9	81 - 90
A (Very Good)	8	71 - 80
B + (Good)	7	61 - 70
B (Average)	6	50 - 60
RA	0	<50
SA (Shortage of Attendance)	0	
W	0	

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B".

'SA' denotes shortage of attendance (as per clause 7.3) and hence prevention from writing the end semester examinations. 'SA' will appear only in the result sheet.

"RA" denotes that the student has failed to pass in that course. "W" denotes **withdrawal** from the exam for the particular course. The grades RA and W will figure both in Marks Sheet as well as in Result Sheet). In both cases the student has to earn Continuous Assessment marks and appear for the End Semester Examinations.

If the grade W is given to course, the attendance requirement need not be satisfied.

If the grade RA is given to a core **theory course**, the attendance requirement need not be satisfied, but if the grade RA is given to a **Laboratory Course/ Project work / Seminar and any other EEC course**, the attendance requirements (vide clause 7) should be satisfied.

- 15.2 For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / NSO / YRC, a satisfactory / not satisfactory grading will appear in the mark sheet. Every student shall put in a minimum of 75% attendance in the training and attend the camp compulsorily. The training and camp shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the second year. **A satisfactory grade in the above co-curricular activities is compulsory for the award of degree.**
- 15.3 The grades O, A+, A, B+, B obtained for the one credit course shall figure in the Mark sheet under the title '**Value Added Courses**'. The Courses for which the grades are RA, SA **will not figure in the mark sheet.**

Grade sheet

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The college in which the candidate has studied
- The list of courses enrolled during the semester and the grade scored.
- The Grade Point Average (GPA) for the semester and
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

GPA for a semester is the ratio of the sum of the products of the number of credits for courses acquired and the corresponding points to the sum of the number of credits for the courses acquired in the semester.

CGPA will be calculated in a similar manner, considering all the courses registered from first semester. RA grades will be excluded for calculating GPA and CGPA.

$$\text{GPA / CGPA} = \frac{\sum_{i=1}^n C_i GP_i}{\sum_{i=1}^n C_i}$$

where C_i is the number of Credits assigned to the course

GP_i is the point corresponding to the grade obtained for each course

n is number of all courses successfully cleared during the particular semester in the case of GPA and during all the semesters in the case of CGPA.

16 ELIGIBILITY FOR THE AWARD OF THE DEGREE


16.1 A student shall be declared to be eligible for the award of the B.E. / B.Tech. Degree provided the student has

- Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- Successfully completed the course requirements, appeared for the End-Semester examinations and passed all the subjects prescribed in all the 8 semesters / (10 Semesters for B.E. Mechanical Engineering (Sandwich)) within a maximum period of 7 years (9 years in case of B.E. Mechanical Engineering (Sandwich) and 6 years in the case of Lateral Entry) reckoned from the commencement of the first (third in the case of Lateral Entry) semester to which the candidate was admitted.
- Successfully passed any additional courses prescribed by the Director, Academic Courses whenever readmitted under regulations R-2017 (vide clause 18.3)
- Successfully completed the NCC / NSS / NSO / YRC requirements.
- No disciplinary action pending against the student.
- The award of Degree must have been approved by the Syndicate of the University.

16.2 CLASSIFICATION OF THE DEGREE AWARDED

16.2.1 FIRST CLASS WITH DISTINCTION

A student who satisfies the following conditions shall be declared to have passed the examination in First class with Distinction:


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- Should have passed the examination in all the courses of all the eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) in the student's First Appearance within **five** years (Six years in the case of Mechanical (Sandwich) and Four years in the case of Lateral Entry). Withdrawal from examination (vide Clause 17) will not be considered as an appearance.
- Should have secured a CGPA of not less than **8.50**.
- One year authorized break of study (if availed of) is included in the five years (Six years in the case of Mechanical (Sandwich) and four years in the case of lateral entry) for award of First class with Distinction.
- Should NOT have been prevented from writing end semester examination due to lack of attendance in any semester.

16.2.2 **FIRST CLASS:**

A student who satisfies the following conditions shall be declared to have passed the examination in **First class**:

- Should have passed the examination in all the courses of all eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) **within Six years**. (Seven years in case of Mechanical (Sandwich) and Five years in the case of Lateral Entry)
- One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of six years (Seven years in case of Mechanical (Sandwich) and five years in the case of lateral entry) for award of First class
- Should have secured a CGPA of not less than **7.00**.

16.2.3 **SECOND CLASS:**

All other students (not covered in clauses 16.2.1 and 16.2.2) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in **Second Class**.

16.3 A candidate who is absent in end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (subject to clause 17 and 18)

16.4 Photocopy / Revaluation

A candidate can apply for photocopy of his/her semester examination answer paper in a theory course, within 2 weeks from the declaration of results, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of Institutions. The answer script is to be valued and justified by a faculty member, who handled the subject and recommend for revaluation with breakup of marks for each question. Based on the recommendation, the candidate can register for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the candidate concerned through the Head of the Institutions. Revaluation is not permitted for practical courses and for project work.

A candidate can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

16.5 Review

Candidates not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to Controller of Examination through the Head of the Institution.

Candidates applying for Revaluation only are eligible to apply for Review.

17. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

- 17.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by Chairman, sports board and HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in **ANY ONE** of the semester examinations during the entire duration of the degree programme. The application shall be sent to Director, Student Affairs through the Head of the Institutions with required documents.
- 17.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN days prior to the commencement of the examination in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations.
- 17.2.1 Notwithstanding the requirement of mandatory 10 days notice, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 17.3 In case of withdrawal from a course / courses (Clause 13) the course will figure both in Marks Sheet as well as in Result Sheet. **Withdrawal essentially requires the student to register for the course/courses** The student has to register for the course, fulfill the attendance requirements (vide clause 7), earn continuous assessment marks and attend the end semester examination. However, withdrawal shall not be construed as an appearance for the eligibility of a candidate for First Class with Distinction.
- 17.4 Withdrawal is permitted for the end semester examinations in the final semester only if the period of study the student concerned does not exceed 5 years as per clause 16.2.1.

18. PROVISION FOR AUTHORISED BREAK OF STUDY


- 18.1 A student is permitted to go on break of study for a maximum period of one year as a single spell.
- 18.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the candidate may apply for additional break of study not exceeding another one year by paying prescribed fee for break of study. If a candidate intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to rejoin the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Director, Student Affairs in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Institution stating the reasons therefore and the probable date of rejoining the programme.
- 18.3 The candidates permitted to rejoin the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of rejoining. The students rejoining in new Regulations shall apply to the Director, Academic Courses in the prescribed format through Head of the Institution at the beginning of the readmitted semester itself for prescribing additional courses, if any, from any semester of the regulations in-force, so as to bridge the curriculum in-force and the old curriculum.
- 18.4 The authorized break of study would not be counted towards the duration specified for passing all the courses for the purpose of classification (vide Clause 16.2).
- 18.5 The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 18.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1)

19. DISCIPLINE

- 19.1 Every student is required to observe disciplined and decorous behavior both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the University / College. The Head of Institution shall constitute a disciplinary committee consisting of Head of Institution, Two Heads of Department of which one should be from the faculty of the student, to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal, then a committee shall be constituted including one representative from Anna University, Chennai. In this regard, the member will be nominated by the University on getting information from the Head of the Institution.
- 19.2 If a student indulges in malpractice in any of the University / internal examination he / she shall be liable for punitive action as prescribed by the University from time to time.

20. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The University may from time to time revise, amend or change the Regulations, Curriculum, Syllabus and scheme of examinations through the Academic Council with the approval of Syndicate.


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ANNA UNIVERSITY : : CHENNAI - 600 025

AFFILIATED INSTITUTIONS

REGULATIONS 2021

CHOICE BASED CREDIT SYSTEM

Common to all B. E. / B. Tech. Full-Time Programmes
(For the students admitted to B. E./B. Tech. Programme
at various Non-Autonomous Affiliated Institutions)


DEGREE OF BACHELOR OF ENGINEERING / BACHELOR OF TECHNOLOGY

This Regulation is applicable to the students admitted to B.E/B.Tech. Programmes at all Engineering Colleges affiliated to Anna University, Chennai (other than Autonomous Colleges) and to all the University Colleges of Engineering of Anna University, Chennai from the academic year 2021-2022 onwards.

1. PRELIMINARY DEFINITIONS AND NOMENCLATURE

In these Regulations, unless the context otherwise requires:

- I) **“Programme”** means Degree Programme, that is B.E./B.Tech. Degree Programme.
- II) **“Discipline”** means specialization or branch of B.E./B.Tech. Degree Programme, like Civil Engineering, Textile Technology, etc.
- III) **“Course”** means a theory or practical subject that is normally studied in a semester, like Mathematics, Physics, etc.
- IV) **“Director, Centre for Academic Courses”** means the authority of the University who is responsible for all academic activities of the Academic Programmes for implementation of relevant rules of this Regulations pertaining to the Academic Programmes.
- V) **“Chairperson”** means the Head of the Faculty.
- VI) **“Head of the Institution”** means the Principal of the College.
- VII) **“Head of the Department (HOD)”** means the Head of the Department concerned.
- VIII) **“Controller of Examinations (COE)”** means the authority of the University who is responsible for all activities of the University Examinations.
- IX) **“University”** means ANNA UNIVERSITY, CHENNAI.


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2. ADMISSION

- 2.1 Candidates seeking admission to the first semester of the eight semesters B.E./ B.Tech. Degree Programme:

Should have passed the Higher Secondary Examinations of (10+2) Curriculum (Academic Stream) prescribed by the Government of Tamil Nadu with Mathematics, Physics and Chemistry as three of the four subjects of study under Part-III or any examination of any other University or authority accepted by the Syndicate of Anna University as equivalent thereto.

(OR)

Should have passed the Higher Secondary Examination of Vocational stream (Vocational groups in Engineering / Technology) as prescribed by the Government of Tamil Nadu.

2.2 Lateral entry admission

- (i) The candidates who possess the Diploma in Engineering / Technology awarded by the State Board of Technical Education, Tamil Nadu or its equivalent are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech., as per the rules fixed by Government of Tamil Nadu.

(OR)

- (ii) The candidates who possess the Degree in Science (B.Sc.) (10+2+3 stream) with Mathematics as a subject at the B.Sc. Level are eligible to apply for Lateral entry admission to the third semester of B.E. / B.Tech.

Such candidates shall undergo two additional Engineering subject(s) in the **third and fourth semesters** as prescribed by the University.

3. PROGRAMMES OFFERED

B.E. / B.Tech. Programmes under the Faculty of Civil Engineering, Faculty of Mechanical Engineering, Faculty of Electrical Engineering, Faculty of Information and Communication Engineering and Faculty of Technology.

4. STRUCTURE OF PROGRAMMES

4.1 Categorization of Courses

Every B.E. / B. Tech. Programme will have a curriculum with syllabi consisting of theory and practical courses that shall be categorized as follows:

- i. **Humanities, Social Sciences and Management Courses (HSMC)** include Professional English, Communication skills etc.
- ii. **Basic Sciences Courses (BSC)** include Mathematics, Physics, Chemistry, Biology, Environmental Science etc.
- iii. **Engineering Sciences Courses (ESC)** include Engineering Practices, Engineering Graphics, Basics of Civil / Mechanical / Electrical / Electronics / Instrumentation, Computer Engineering, etc.
- iv. **Professional Core Courses (PCC)** include the core courses relevant to the chosen specialization/branch.


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- v. **Professional Elective Courses (PEC)** include the elective courses relevant to the chosen specialization/ branch.
- vi. **Open Elective Courses (OEC)** include the courses offered by a branch to other branches, from the list specified in the respective curriculum of the B.E. / B. Tech. / B. Arch. Programmes.
- vii. **Employability Enhancement Courses (EEC)** include Project Work, Internship, Seminar, Professional Practices, Case Study and Industrial/Practical Training etc.
- viii. **Audit courses (AC)** include the courses such as Constitution of India, Sangam literature etc.

4.2 **Personality and Character Development**

All students shall enroll, on admission, in any one of the personality and character development programmes NCC/NSS/NSO/YRC and undergo training / conduct activities for about 80 hours and attend a camp of about seven days. The training shall include classes on hygiene and health awareness and also training in first-aid. Alternately, activities of science, literature and arts also help for personality and character development. So, students shall conduct and participate actively in Science club/Literary Forum/Fine Arts activities for 80 hours and participate in at least ONE event.

National Cadet Corps (NCC) will have about 20 parades.

National Service Scheme (NSS) will have social service activities in and around the College / Institution.

National Sports Organization (NSO) will have Sports, Games, Drills and Physical exercises.

Youth Red Cross (YRC) will have activities related to social services in and around College/Institution.

While the training activities will normally be during weekends, the camp will normally be during vacation period.

Science club shall organise activities of popularisation of science and scientific temper through activities related to astronomy, works of great scientists from India and abroad, observing National Science Day, etc.

Literary Club like 'Tamil Ilakkiya Mandram' shall be formed, which shall organise colourful literary events to propagate good humanist values, morals and ethics reflected in the literature.

Fine Arts Club like music, painting and documentary films with social themes shall be encouraged.

Students who enroll and take active participation in anyone of the above activities for 80 hours and participate at least one event/programme will be given a certificate by the Head of the Institution and the copy of the same shall be forwarded to the Controller of Examinations for the purpose of record and scrutiny.

No fee shall be charged for all these activities.


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4.3 Number of courses per semester

Each semester curriculum shall normally have a blend of lecture courses not exceeding 7 Theory courses and Laboratory integrated theory courses and 4 Employability Enhancement Course(s) and Laboratory Courses. However, the total number of courses per semester shall not exceed 10. Each Course shall have credits assigned as per clause 4.4.

4.4 Credit Assignment

Each course is assigned certain number of credits based on the following:

Contact period per week	CREDITS
1 Lecture Period	1
1 Tutorial Period	1
1 Laboratory Period (also for EEC courses like Seminar / Project Work /Case study / etc.)	0.5

4.5. Industrial Training/ Internship

4.5.1 The students may undergo Industrial training for a period as specified in the Curriculum during the summer / winter vacation. In this case, the training has to be undergone continuously for a period of at least two weeks in an organization.

The students may undergo Internship at a Research organization / University/ Industry (after due approval from the Head of the Institution) for the period prescribed in the curriculum during the summer / winter vacation, in lieu of Industrial training. Attendance Certificate mentioning the period of Industrial Training / Internship and signed by the competent authority of the industry, as per the format provided by the Centre for Academic Courses shall be submitted to the Head of the Institution. The attendance certificate shall be forwarded to the COE, Anna University by the Head of the Institution for processing results.

4.5.2 If Industrial Training/ Internship is not prescribed in the curriculum, the student may undergo Industrial Training/ Internship optionally and the credits earned will be indicated in the Grade Sheet. If the student earns three credits in Industrial Training/ Internship, the student may drop one Professional Elective (only one professional elective can be dropped). In such cases, Industrial Training / Internship need to be undergone continuously from one organization or with a combination one two week and one four week from one/two organizations. However, if the number of credits earned is 1 or 2, then these credits shall not be considered for classification of the degree. Students shall get permission from the Head of the Institution for taking Industrial Training/Internship and the Certificate of completion of Industrial Training / Internship shall be forwarded to the COE.

DURATION OF TRAINING/INTERNSHIP	CREDITS
2 Weeks*	1
4 Weeks	2
6 Weeks	3

*1 Week = 40 Internship Hours

4.6 Industrial Visit

Every student is required to go for at least one Industrial Visit every semester starting from the second year of the Programme. The Heads of Departments shall ensure that necessary arrangements are made in this regard.

4.7 Value Added Courses

The students may optionally undergo Value Added Courses (VAC) over and above the topics covered in the curriculum to obtain practical and industry specific knowledge. The credits earned through the Value Added Courses shall be over and above the total credit requirements prescribed in the curriculum for the award of the degree. **One / Two credit courses shall be offered by a Department of an institution with the prior approval from the Head of the Institution and the Centre for Academic courses without any additional fee charged from the students.** The details of the syllabus, time table and course coordinator may be sent to the Centre for Academic Courses at least one month before the course is offered for approval. **Students can take a maximum of two one credit courses / one two credit course** during the entire duration of the Programme.

4.8 Online Courses

Students may be permitted to credit a maximum of two online courses, subject to a maximum of six credits, with the approval of the **Head of the Institution and the Centre for Academic Courses, in lieu of open elective / professional elective courses.** The Head of the Institution shall form a three member committee with members as HOD and a faculty member from the Department of the student, HOD of any other branch of the Institution to ensure that the student has not studied such courses and would not repeat it again as Professional Core/Professional Elective/Open Elective courses. Suitable online courses shall be chosen from the SWAYAM platform.

4.9 Audit courses

The student may optionally study audit courses prescribed by the University and it will be mentioned in the Grade Sheet. However, it will not be considered for computation of CGPA.

4.10 Advancement of Courses:

The students who completed their final semester courses (except project work) in advance, shall be permitted to carry out their final semester Project Work for six months in an industry/research organization.

These students shall undergo the eighth semester courses other than the Project Work in the sixth and seventh semesters, provided they do not have current arrears and have a CGPA of 7.50 and above at the end of Semester IV. The Head of Department, in consultation with the faculty handling the said courses shall forward the proposal recommended by the Head of Institution to the Controller of Examinations through the Director, Centre for Academic Courses for approval at least 4 weeks before the commencement of the sixth semester of the programme for approval.

4.11 Medium of Instruction

The medium of instruction is English for all courses, examinations, Seminar presentations and Project Work reports except for the programmes offered in Tamil Medium.

5. DURATION OF THE PROGRAMME

- 5.1 A student is ordinarily expected to complete the B.E. / B.Tech. Programme in 8 semesters (for HSC students) and six semesters (for Lateral Entry students) but in any case not more than 14 Semesters for HSC (or equivalent) students and not more than 12 semesters for Lateral Entry students.
- 5.1.1 A student is ordinarily expected to complete the B.E. Mechanical Engineering (Sandwich) Programme in 10 semesters (five academic years) but in any case not more than 18 Semesters for HSC (or equivalent) students.
- 5.2 Each semester shall normally consist of 75 working days or 540 periods of 50 minutes each. The Head of the Institution shall ensure that every teacher imparts instruction as per the number of periods specified in the syllabus and that the teacher teaches the full content of the specified syllabus for the course being taught.
- 5.3 The Head of the Institution may conduct additional classes for improvement, special coaching, conduct of model test etc., over and above the specified periods. But for the purpose of calculation of attendance requirement for writing the end semester examinations (as per clause 6) by the students, following method shall be used.

$$\text{Percentage of Attendance} = \frac{\text{Total no. of periods attended in all the courses per semester}}{(\text{No. of periods / week as prescribed in the curriculum}) \times 15} \times 100$$

taken together for all courses of the semester

The University Examination will normally follow immediately after the last working day of the semester as per the academic schedule prescribed from time to time.

- 5.4 The total period for completion of the programme reckoned from the commencement of the first semester to which the student was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study (vide clause 18) in order that he/she may be eligible for the award of the degree (vide clause 16).

6. COURSE REGISTRATION

- 6.1 The institution is responsible for registering the courses that each student is proposing to undergo in the ensuing semester. Each student has to register for all courses to be undergone in the curriculum of a particular semester (with the facility to drop courses to a maximum of 6 credits (vide clause 6.2)). The courses dropped in earlier semesters can be registered in the subsequent semesters when offered.

The registration details of the student shall be approved by the Head of the Institution and forwarded to the Controller of Examinations. This registration is for undergoing the course as well as for writing the End Semester Examinations.

The courses that a student registers in a particular semester may include

- i. Courses of the current semester.
- ii. Courses dropped in the lower semesters and
- iii. Courses advanced to Semester VI and VII from Semester VIII (as per clause 4.10).

The maximum number of credits that can be registered in a semester is 36. However, this does not include the number of Re-appearance (RA) and Withdrawal (W) courses registered by the student for the appearance of Examination.

6.2 Flexibility to Drop courses

- 6.2.1 A student has to earn the total number of credits specified in the curriculum of the respective Programme of study in order to be eligible to obtain the degree.
- 6.2.2 From the second to final semesters, the student has the option of dropping existing courses in a semester during registration. Total number of credits of such courses shall not exceed 6 per semester. The student is permitted to drop the course(s) within 30 days of the commencement of the academic schedule.

7. ATTENDANCE REQUIREMENTS FOR COMPLETION OF THE SEMESTER

- 7.1 A student who has fulfilled the following conditions shall be deemed to have satisfied the requirements for completion of a semester.

Ideally every student is expected to attend all classes of all the courses and secure 100% attendance. However, in order to give provision for certain unavoidable reasons such as medical / participation in sports, the student is expected to attend at least 75% of the classes.

Therefore, he/she shall **secure not less than 75%** (after rounding off to the nearest integer) of overall attendance as calculated as per clause 5.3.

- 7.2 However, a student who secures overall attendance between 65% and 74% in the current semester due to medical reasons (prolonged hospitalization / accident / specific illness) / participation in sports events may be permitted to appear for the current semester examinations, subject to the condition that the student shall submit the medical certificate / sports participation certificate attested by the Head of the Institution. The same shall be forwarded to the Controller of Examinations for record purposes.
- 7.3 Students who **secure less than 65% overall attendance** shall not be permitted to write the University examination at the end of the semester and not permitted to move to the next semester. They are required to repeat the incomplete semester in the next academic year, as per the norms prescribed.

8. CLASS ADVISOR

There shall be a class advisor for each class. The class advisor will be one among the course-instructors of the class. He / She will be appointed by the HOD of the department concerned. The class advisor is the ex-officio member and the Convener of the class committee. The responsibilities for the class advisor shall be:

- To act as the channel of communication between the HOD and the students of the respective class.
- To collect and maintain various statistical details of students.
- To help the chairperson of the class committee in planning and conduct of the class committee meetings.

- To monitor the academic performance of the students including attendance and to inform the class committee.
- To attend to the students' welfare activities like awards, medals, scholarships and industrial visits.

9. CLASS COMMITTEE

- 9.1. Every class shall have a class committee consisting of teachers of the class concerned, student representatives and a chairperson, who is not teaching the class. It is like the 'Quality Circle' (more commonly used in industries) with the overall goal of improving the teaching-learning process. The functions of the class committee include:
- Solving problems experienced by students in the class room and in the laboratories.
 - Clarifying the regulations of the degree programme and the details of rules therein particularly (clause 5 and 7).
 - Informing the student representatives, the academic schedule including the dates of assessments and the syllabus coverage for each assessment.
 - Informing the student representatives the details of Regulations regarding weightage used for each assessment. In the case of practical courses (laboratory / drawing / project work / seminar etc.) the breakup of marks for each experiment / exercise / module of work, should be clearly discussed in the class committee meeting and informed to the students.
 - Analyzing the performance of the students of the class after each test and finding the ways and means of solving problems, if any.
 - Identifying the slow-learners, if any, and requesting the teachers concerned to provide some additional help or guidance or coaching to such students.
- 9.2 The class committee for a class under a particular branch is normally constituted by the Head of the Department. However, if the students of different branches are mixed in a class (like the first semester which is generally common to all branches), the class committee is to be constituted by the Head of the Institution.
- 9.3 The class committee shall be constituted within the first week of each semester.
- 9.4 At least 4 student representatives (usually 2 boys and 2 girls) shall be included in the class committee, covering all the elective courses.
- 9.5 The chairperson of the class committee may invite the class adviser(s) and the Head of the Department to the class committee meeting.
- 9.6 The Head of the Institution may participate in any class committee meeting of the institution.
- 9.7 The chairperson is required to prepare the minutes of every meeting, submit the same to the Head of the Institution within two days of the meeting and arrange to circulate it among the students and teachers concerned. If there are some points in the minutes requiring action by the management, the same shall be brought to the notice of the Management by the Head of the Institution.
- 9.8 The first meeting of the class committee shall be held within one week from the date of commencement of the semester, in order to inform the students about the nature and weightage of assessments within the framework of the Regulations. Two or three subsequent meetings may be held in a semester at suitable intervals. **The Class**

Committee Chairperson shall display the cumulative attendance particulars of each student on the Notice Board at the end of every such meeting to enable the students to know their attendance details to satisfy the clause 6 of this Regulation. During these meetings the student members representing the entire class, shall meaningfully interact and express the opinions and suggestions of the other students of the class in order to improve the effectiveness of the teaching-learning process.

10. COURSE COMMITTEE FOR COMMON COURSES

Each common theory course offered to more than one discipline or group, shall have a "Course Committee" comprising all the teachers teaching the common course with one of them nominated as the course coordinator. The nomination of the course coordinator shall be made by the Head of the Department / Head of the Institution depending upon whether all the teachers teaching the common course belong to a single department or to several departments. The 'Course Committee' shall meet in order to arrive at a common scheme of evaluation for the test and shall ensure a uniform evaluation of the tests. Wherever feasible, the Course Committee may also prepare a common question paper for the internal assessment test(s).

11. SYSTEM OF EXAMINATION

- 11.1 Performance in each course of study shall be evaluated based on (i) continuous internal assessment throughout the semester and (ii) University examination at the end of the semester.
- 11.2 Each course, both theory and practical (including project work & viva voce examinations) shall be evaluated for a maximum of 100 marks.
- 11.2.1 For all theory courses, the continuous internal assessment will carry **40 marks** while the End Semester University examination will carry **60 marks**.
- 11.2.2 For all theory courses with laboratory component, the continuous internal assessment will carry **50 marks** while the End Semester University examination will carry **50 marks**.
- 11.2.3 For all laboratory courses, the continuous internal assessment will carry **60 marks** while the End Semester University examination will carry **40 marks**.
- 11.2.4 The continuous internal assessment for the project work will carry **40 marks** while the End Semester University examination will carry **60 marks**.
- 11.3 Industrial Training and Seminar shall carry 100 marks and shall be evaluated through internal assessment only.
- 11.4 The University examination (theory and practical) of 3 hours duration shall ordinarily be conducted between October and December during the odd semesters and between April and June during the even semesters.
- 11.5 The University examination for Project Work shall consist of evaluation of the final report submitted by the student or students of the project group (of not exceeding 4 students) by an external examiner and an internal examiner, followed by a viva-voce examination conducted separately for each student by a committee consisting of the external examiner, the supervisor of the project group and an internal examiner.

11.6 For the University examination of practical courses including Project Work, the internal and external examiners shall be appointed by the Controller of Examinations.

12. PROCEDURE FOR AWARDING MARKS FOR INTERNAL ASSESSMENT

For all theory, laboratory courses, theory courses with laboratory component and project work the continuous assessment shall be awarded as per the procedure given below:

12.1 THEORY COURSES

Two assessments each carrying 100 marks shall be conducted during the semester by the Department / College concerned. The total marks obtained in all assessments put together out of 200, shall be proportionately reduced for 40 marks and rounded to the nearest integer (This also implies equal weightage to the two assessments).

Assessment I (100 Marks)		Assessment II (100 Marks)		Total Internal Assessment
Individual Assignment / Case Study / Seminar / Mini Project	Written Test	Individual Assignment / Case Study / Seminar / Mini Project	Written Test	
40	60	40	60	200*

*The weighted average shall be converted into 40 marks for internal Assessment.

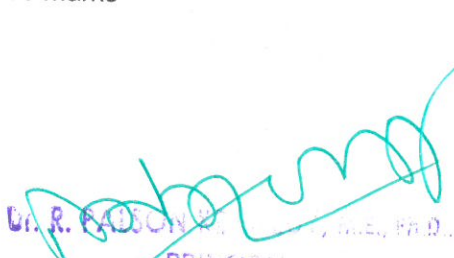
Two internal assessments will be conducted as a part of continuous assessment. Each internal assessment is to be conducted for 100 marks and will have to be distributed in two parts viz., Individual Assignment/Case study/Seminar/Mini project and Test with each having a weightage of 40% and 60% respectively. The tests shall be in written mode. The total internal assessment marks of 200 shall be converted into a maximum of 40 marks and rounded to the nearest integer.

12.2 LABORATORY COURSES

The maximum marks for Internal Assessment shall be 60 marks in case of practical courses. Every practical exercise / experiment shall be evaluated based on conduct of experiment / exercise and records to be maintained. There shall be at least one test. The criteria for arriving at the Internal Assessment marks of 60 is as follows: 75 marks shall be awarded for successful completion of all the prescribed experiments done in the Laboratory and 25 marks for the test. The total mark shall be converted into a maximum of 60 marks and rounded to the nearest integer.

Internal Assessment (100 Marks)*	
Evaluation of Laboratory Observation, Record	Test
75	25

* Internal assessment marks shall be converted into 60 marks


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12.3 THEORY COURSES WITH LABORATORY COMPONENT

If there is a theory course with laboratory component, there shall be two assessments: the first assessment (maximum mark is 100) will be similar to assessment of theory course and the second assessment (maximum mark is 100) will be similar to assessment of laboratory course respectively. The weightage of first assessment shall be 40 % and the second assessment be 60 %. **The weighted average of these two assessments shall be converted into 50 marks and rounded to the nearest integer.**

Assessment I (40% weightage) (Theory Component)		Assessment II (60% weightage) (Laboratory Component)		Total Internal Assessment
Individual Assignment / Case Study / Seminar / Mini Project	Written Test	Evaluation of Laboratory Observation, Record	Test	
40	60	75	25	200*

*The weighted average shall be converted into 50 marks for internal Assessment.

12.4 PROJECT WORK

The student shall register for Project Work-I in pre-final semester and Project Work-II in final semester. Project work may be allotted to a single student or to a group of students not exceeding 4 per group. Project Work-II may/may not be a continuation of Project Work-I. If Project Work II is not a continuation of Project Work I, then the topic and constitution of the project team members need not be the same.

12.4.1 Project Work shall be carried out under the supervision of a "qualified teacher" in the Department concerned. In this context "qualified teacher" means the faculty member possessing (i) PG degree or (ii) Ph.D. degree.

12.4.2 The Project Work-II carried out in industry/academic/research institutions need not be a continuation of Project Work-I. In such cases, the Project Work-II shall be jointly supervised by a supervisor of the department and an expert as a joint supervisor from the organization and the student shall be instructed to meet the supervisor periodically and to attend the review committee meetings for evaluating the progress. The review meetings, if necessary, may also be arranged in online mode with prior approval from the Head of the Institution and suitable record of the meetings shall be maintained.

12.4.3 The Head of the Institutions shall constitute a review committee for Project Work for each programme. The review committee consists of supervisor, an expert from the Department and a project coordinator from the Department. If the project coordinator/expert member happens to be the supervisor, then an alternate member shall be nominated. In the case of Industrial Project, the review committee shall have the supervisor, the coordinator from industry and the project coordinator from the Department.

There shall be three reviews during the semesters VII and VIII by the review committee. The student shall make presentation on the progress made by him / her before the committee. The total marks obtained in the three reviews shall be **reduced for 40 marks** and rounded to the nearest integer (as per the scheme given in 12.4.4).

12.4.4 The project report shall carry a maximum of 20 marks. The project report shall be submitted as per the approved guidelines as given by the Director, Centre for Academic Courses. Same marks shall be awarded to every student within the project group for the project report. The viva-voce examination shall carry 40 marks. Marks are awarded to each student of the project group is based on the individual performance in the viva-voce examination.

Review I	Review II	Review III	End Semester Examinations				
			Project Report		Viva-Voce Examination		
10	15	15	Internal	External	Internal	External	Supervisor
			10	10	10	20	10

12.4.5 The last date for submission of the project report is on the last working day of the semester. If a student fails to submit the project report on or before the specified deadline or the student has submitted the project report but did not appear for the viva-voce examination, it will be considered as fail in the Project Work and the student shall re-register for the same in the subsequent semester.

12.5 OTHER EMPLOYABILITY ENHANCEMENT COURSES

- (a) The Seminar / Case Study / Mini Project course is to be considered as purely INTERNAL (with 100% internal marks only). Every student is expected to present a minimum of 2 seminars per semester before the evaluation committee and for each seminar, marks can be equally apportioned. The three member committee appointed by the Head of the Institution, consisting of the course coordinator and two experts from the Department, will evaluate the seminar and at the end of the semester, the marks shall be consolidated and taken as the final mark. The evaluation shall be based on the seminar paper (40%), presentation (40%) and response to the questions asked during presentation (20%).
- (b) The Industrial / Practical Training, Summer Project, Internship, shall carry 100 marks and shall be evaluated through internal assessment only. At the end of Industrial / Practical Training / Internship / Summer Project, the student shall submit an attendance certificate from the organization where he / she has undergone training and a brief report. The evaluation will be made based on this report and a viva-voce Examination, conducted internally by a three member Departmental Committee constituted by the Head of the Institution consisting of the course coordinator and two experts from the Department. The certificates (issued by the organization) submitted by the students shall be attached to the mark list sent by the Head of the Institution to the Controller of Examinations.
- (c) For all the courses under Employability Enhancement Courses Category, except the Project Work, the evaluation shall be done with 100% internal marks and as per the procedure described in clause 12.5 (a) / (b).

12.6 ASSESSMENT FOR VALUE ADDED COURSES

The one / two credit course shall carry 100 marks and shall be evaluated through **continuous assessments only**. Two Assessments as per the clause 12.1 or 12.2 shall be conducted by the Department concerned. The total marks obtained in the assessments shall be reduced to 100 marks and rounded to the nearest integer. A committee consisting of the Head of the Department, staff handling the course and a senior faculty member nominated by the Head of the Institution shall do the evaluation process. The list of students along with the marks and the grades earned shall be forwarded to the Controller of Examinations for appropriate action at least one month before the commencement of End Semester Examinations. The grades earned by the students for Value Added Courses will be recorded in the Grade Sheet, however the same shall not be considered for the computation of CGPA.

12.7 ASSESSMENT FOR ONLINE COURSES

Students may be permitted to credit two online courses (which are provided with certificate), subject to a maximum of six credits. **The online course of 3 credits can be considered instead of one elective course.** These online courses shall be chosen from the SWAYAM platform, provided the offering organisation conducts regular examination and provides marks. The credits earned shall be transferred and the marks earned shall be converted into grades and transferred, provided the student has passed in the examination as per the norms of the offering organisation. The details regarding online courses taken up by the student and marks/credits earned and the approval for the course from Centre for Academic Courses shall be sent to the Controller of Examinations, Anna University in the subsequent semester(s) along with the details of the elective(s) to be dropped.

12.8. **Internal marks approved by the Head of the Institution shall be displayed by the respective HODs within 5 days from the last working day.**

12.9 Attendance Record

Every teacher is required to maintain an 'ATTENDANCE AND ASSESSMENT RECORD', which consists of attendance marked in each lecture or practical or project work class, the test marks and the record of class work (topic covered), separately for each course. This should be submitted to the Head of the Department periodically (at least three times in a semester) for checking the syllabus coverage and the records of test marks and attendance. The Head of the Department will put his/her signature and date after due verification. At the end of the semester, the record should be verified by the Head of the Institution who will keep this document in safe custody (for five years). The University or any inspection team appointed by the University may verify the records of attendance and assessment of both current and previous semesters.

12.10 Conduct of Academic Audit by every Institution

Every educational institution shall strive for a better performance of the students by conducting the internal assessments as mentioned in Clause 12.


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12.10 Conduct of Academic Audit by every Institution

Every educational institution shall strive for a better performance of the students by conducting the internal assessments as mentioned in Clause 12.

In order to ensure the above, Academic Audit is to be done for every course taught during the semester. For the internal assessments conducted for each course as per details provided in Clause 12, the academic records shall be maintained in the form of documentation for the individual assignments / case study report / report of mini project submitted by each student and assessment test question paper and answer script. Report of industrial training / internship shall also be maintained, if applicable. For laboratory courses students' record shall be maintained. Further, the attendance of all students shall be maintained as a record.

The Head of the Institution shall arrange to conduct the Academic Audit for every course in a semester by forming the respective committees with an external course expert as one of the members drawn from a Technical institution of repute near the institute.

The University or any inspection team appointed by the University may verify the records of Academic Audit report of the courses of both current and previous semesters, as and when required.

13. REQUIREMENTS FOR APPEARING FOR UNIVERSITY EXAMINATIONS

A student shall normally be permitted to appear for the University Examinations for all the courses registered in the current semester (vide clause 6) if he/she has satisfied the semester completion requirements (as per clause 7).

Further, examination registration by a student is mandatory for all the courses in the current semester and all arrear(s) course(s) for the University examinations failing which, the student will not be permitted to move to the higher semester.

A student who has already appeared for any course in a semester and passed the examination is not entitled to reappear in the same subject for improvement of grades.

14. PASSING REQUIREMENTS

14.1 A student who secures not less than 50% of total marks prescribed for the course [Internal Assessment + End semester University Examinations] with a minimum of 45% of the marks prescribed for the end-semester University Examination, shall be declared to have passed the course and acquired the relevant number of credits. This is applicable for both theory and laboratory courses (including project work).

14.2 If a student fails to secure a pass in a theory course / laboratory course (except electives), the student shall register and appear only for the end semester examination in the subsequent semester. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the student secures a pass. However, from the third attempt onwards if a student fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the student shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the University end semester examinations alone.

14.3 If the course, in which the student has failed, is a Professional Elective or an Open Elective course, the student may be permitted to complete the same course. In such case, the internal assessment marks obtained by the student in the first appearance shall be retained and considered valid for all subsequent attempts till the candidate secures a pass. However, from the third attempt onwards if a candidate fails to obtain pass marks (IA + End Semester Examination) as per clause 14.1, then the candidate shall be declared to have passed the examination if he/she secures a minimum of 50% marks prescribed for the University end semester examinations alone.

If any other Professional Elective or Open Elective course is opted by the student, the previous registration is cancelled and henceforth it is to be considered as a new Professional Elective or Open Elective course. The student has to register and attend the classes, earn the continuous assessment marks, fulfil the attendance requirements as per clause 7 and appear for the end semester examination.

- 14.4 If a student is absent during the viva - voce examination, it would be considered as fail. If a student fails to secure a pass in Project Work-I, **the student shall register** for the course again in the subsequent semester and can do Project Work-I and II together.
- 14.5 The passing requirement for the courses which are assessed only through purely internal assessments (EEC courses except Project Work and laboratory), is 50% of the internal assessment (continuous assessment) marks only.
- 14.6 A student can apply for revaluation of the student's semester examination answer paper in a theory course, as per the guidelines of the COE on payment of a prescribed fee along with prescribed application to the COE through the Head of the Institution. The COE will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institution. Revaluation is not permitted for laboratory course and EEC courses.

15. AWARD OF LETTER GRADES

- 15.1 The award of letter grades will be decided using relative grading principle. The performance of a student will be reported using letter grades, each carrying certain points as detailed below:

Letter Grade	Grade Points*
O (Outstanding)	10
A + (Excellent)	9
A (Very Good)	8
B + (Good)	7
B (Average)	6
C (Satisfactory)	5
RA (Re-appearance)	0
SA (Shortage of Attendance)	0
W (Withdrawal)	0

A student is deemed to have passed and acquired the corresponding credits in a particular course if he/she obtains any one of the following grades: "O", "A+", "A", "B+", "B", "C".

'SA' denotes shortage of attendance (as per clause 7.3) and hence prevented from writing the end semester examinations. 'SA' will appear only in the result sheet.

“RA” denotes that the student has failed to pass in that course. “W” denotes **withdrawal** from the exam for the particular course. The grades RA and W will figure both in the Grade Sheet as well as in the Result Sheet. In both cases, the student has to appear for the End Semester Examinations as per the Regulations.

If the grade RA is given to **Theory Courses/ Laboratory Courses** it is **not required to satisfy the** attendance requirements (vide clause 7), but has to appear for the end semester examination and fulfil the norms specified in clause 14 to earn a pass in the respective courses.

If the grade RA is given to **EEC course (except Project Work), which are evaluated only through internal assessment**, the student shall register for the course again in the subsequent semester, fulfil the norms as specified in clause 14 to earn pass in the course. However, attendance requirement need not be satisfied.

- 15.2 For the Co-curricular activities such as National Cadet Corps (NCC)/ National Service Scheme (NSS) / NSO / YRC / Science club / Literary Club/ Fine Arts Club, a ‘completed’ remark will appear in the Grade Sheet on successful completion of the same. Every student shall put in a minimum of 75% attendance in the training and attend the camp or events of the clubs compulsorily. The training and camp or club events shall be completed during the first year of the programme. However, for valid reasons, the Head of the Institution may permit a student to complete this requirement in the subsequent years. **Successful completion of any one of the above co-curricular activities is compulsory for the award of degree.**
- 15.3 The grades O, A+, A, B+, B, C obtained for the one/two credit course (not the part of curriculum) shall figure in the Grade Sheet under the title ‘**Value Added Courses/Internship/Industrial training**’. The courses for which the grades obtained are RA, SA **will not figure in the Grade Sheet.**
- 15.4 For the students who complete the Audit Course satisfying attendance requirement, the title of the Audit Course will be mentioned in the Grade Sheet. If the attendance requirement is not satisfied, it will not be shown in the **Grade Sheet.**

15.5 **GRADE SHEET**

After results are declared, Grade Sheets will be issued to each student which will contain the following details:

- The college in which the student has studied
- The list of courses registered during the semester and the grade scored.
- The Grade Point Average (GPA) for the semester and
- The Cumulative Grade Point Average (CGPA) of all courses enrolled from first semester onwards.

GPA for a semester is the ratio of the sum of the products of the number of credits acquired for courses and the corresponding points to the sum of the number of credits acquired for the courses in the semester. CGPA will be calculated in a similar manner, considering all the courses registered from first semester. RA grades will be excluded for calculating GPA and CGPA.

16.2.2 **FIRST CLASS:**

A student who satisfies the following conditions shall be declared to have passed the examination in **First class**:

- Should have passed the examination in all the courses of all eight semesters (10 Semesters in case of Mechanical (Sandwich) and 6 semesters in the case of Lateral Entry) **within five years**. (Six years in case of Mechanical (Sandwich) and Four years in the case of Lateral Entry).
- One year authorized break of study (if availed of) or prevention from writing the End Semester examination due to lack of attendance (if applicable) is included in the duration of five years (Six years in case of Mechanical (Sandwich) and four years in the case of lateral entry) for award of First class.
- Should have secured a CGPA of not less than **6.50**.

16.2.3 **SECOND CLASS:**

All other students (not covered in clauses 16.2.1 and 16.2.2) who qualify for the award of the degree (vide Clause 16.1) shall be declared to have passed the examination in **Second Class**.

16.3 A student who is absent in end semester examination in a course / project work after having registered for the same shall be considered to have appeared in that examination for the purpose of classification. (subject to clause 17).

16.4 Photocopy / Revaluation

A student can apply for photocopy of his/her semester examination answer paper in a theory course, as per the guidelines of the COE, on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institutions. The answer script is to be valued and justified by a faculty member, who has handled the subject and recommend for revaluation with the breakup of marks for each question. Based on the recommendation, the student can register for the revaluation through proper application to the Controller of Examinations. The Controller of Examinations will arrange for the revaluation and the results will be intimated to the student concerned through the Head of the Institutions. Revaluation is not permitted for practical courses and EEC courses.

A student can apply for revaluation of answer scripts for not exceeding 5 subjects at a time.

16.5 Review

Students not satisfied with Revaluation can apply for Review of his/ her examination answer paper in a theory course, within the prescribed date on payment of a prescribed fee through proper application to the Controller of Examinations through the Head of the Institution.

Students applying for Revaluation only are eligible to apply for Review.

17. PROVISION FOR WITHDRAWAL FROM END-SEMESTER EXAMINATION

- 17.1 A student may, for valid reasons, (medically unfit / unexpected family situations / sports approved by the Chairman, Sports Board and the HOD) be granted permission to withdraw from appearing for the end semester examination in any course or courses in **ANY ONE** of the semester examinations during the entire duration of the degree programme. The application shall be sent to the COE through the Head of the Institutions with required documents.
- 17.2 Withdrawal application is valid if the student is otherwise eligible to write the examination (Clause 7) and if it is made within TEN days after the date of the examination(s) in that course or courses and recommended by the Head of the Institution and approved by the Controller of Examinations. For a student to withdraw from a course / courses, he/she should have registered for the course, fulfilled the attendance requirements (vide clause 7) and earned continuous assessment marks.
- 17.2.1 Notwithstanding the requirement of mandatory 10 days, applications for withdrawal for special cases under extraordinary conditions will be considered on the merit of the case.
- 17.3 In case of withdrawal from a course / courses, the courses will figure both in the Grade Sheet as well as in the Result Sheet. However, withdrawal shall not be considered as an appearance for the eligibility of a student for First Class with Distinction.
- 17.4 If a student withdraws from writing end semester examinations for a course or courses, he/she shall register for the same in the subsequent semester and write the end semester examination(s).
- 17.5 If a student applies for withdrawal from Project Work, he/she will be permitted for the withdrawal only after the submission of project report before the deadline. However, the student may appear for the viva voce examination within 30/60 days after the declaration of results for Project Work I and II respectively and the same shall not be considered as reappearance.
- 17.6 Withdrawal is permitted for the end semester examinations in the final semester, as per clause 16.2.1.

18. PROVISION FOR AUTHORISED BREAK OF STUDY

- 18.1 A student is permitted to go on authorised break of study for a maximum period of one year as a single spell.
- 18.2 Break of Study shall be granted only once for valid reasons for a maximum of one year during the entire period of study of the degree programme. However, in extraordinary situation the student may apply for additional break of study not exceeding another one year. If a student intends to temporarily discontinue the programme in the middle of the semester for valid reasons, and to re-join the programme in a subsequent year, permission may be granted based on the merits of the case provided he / she applies to the Director, Student Affairs in advance, but not later than the last date for registering for the end semester examination of the semester in question, through the Head of the Institution stating the reasons therefore and the probable date of re-joining the programme.

- 18.3 The student permitted to re-join the programme after break of study / prevention due to lack of attendance, shall be governed by the Curriculum and Regulations in force at the time of re-joining. The students re-joining in new Regulations shall register for additional courses, if any, as notified by the Centre for Academic Courses under change of Regulations. These courses may be from any of the semesters of the curriculum in force, so as to bridge the curriculum in force and the old curriculum. In such cases, the total number of credits to be earned by the student may be more than or equal to the total number of credits prescribed in the curriculum in force.
- 18.4 The authorized break of study is included in the duration specified for passing all the courses for the purpose of classification (vide Clause 16.2).
- 18.5 The total period for completion of the Programme reckoned from, the commencement of the first semester to which the candidate was admitted shall not exceed the maximum period specified in clause 5.1 irrespective of the period of break of study in order that he/she may be eligible for the award of the degree.
- 18.6 If any student is prevented for want of required attendance, the period of prevention shall not be considered as authorized 'Break of Study' (Clause 18.1).
- 18.7 If a student in Full Time mode wants to take up a job / start-up / entrepreneurship during the period of study he/she shall apply for authorised break of study for one year. The student shall join the job / start-up / entrepreneurship only after getting approval of the same by the Director, Centre for Academic Courses with due proof to that effect.
- 18.8 No fee is applicable to students during the Break of Study period.

19. DISCIPLINE

- 19.1 Every student is required to observe disciplined and decorous behaviour both inside and outside the college and not to indulge in any activity which will tend to bring down the prestige of the University / College. The Head of the Institution shall constitute a disciplinary committee consisting of the Head of the Institution, Two Heads of Department of which one should be from the faculty of the student, to enquire into acts of indiscipline and notify the University about the disciplinary action recommended for approval. In case of any serious disciplinary action which leads to suspension or dismissal, then a committee shall be constituted including one representative from Anna University, Chennai. In this regard, the member will be nominated by the University on getting information from the Head of the Institution.
- 19.2 If a student indulges in malpractice in any of the University / internal examination he / she shall be liable for punitive action as prescribed by the University from time to time.

20. REVISION OF REGULATIONS, CURRICULUM AND SYLLABI

The University may from time to time revise, amend or change the Regulations, curriculum, syllabus and scheme of examinations through the Academic Council with the approval of the Syndicate.

PERI Institute of Technology
Academic Year 2022 – 2023 (EVEN Semester)
Department of Computer Science Engineering

PERI / 2022 –23 / EVEN / CSE / 05

Date:06.04.2023

CIRCULAR


All the students are informed that the Second Continuous Assessment Test (CAT 2) will be conducted from 11th April 2023 to 19th April 2023.

Important Note to students:

- ❖ The students must be present in the class before 8.30AM
- ❖ The exam starts by 8:45 AM and ends by 11.45 AM.
- ❖ Late comers will not be strictly allowed to write the test.
- ❖ The students must bring their required stationeries
- ❖ The students are instructed to write their name and register number correctly on the top right corner of the answer sheet.
- ❖ The portions for the test will be 3rd & 4th unit.

Encl: CAT 2(TT)


HOD-CSE


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PERI Institute of Technology
Academic Year 2022 – 2023 (EVEN Semester)
Department of Computer Science Engineering

PERI / 2022 –23 / EVEN / CSE / 06

Date:06.04.2023

CIRCULAR

Dear Faculty Members ,

This to inform you that CAT II examination starts from 11TH M April, 2023(Tuesday) onwards. The faculties handling II,III, and IV year are asked to prepare two sets of question papers for each handling subject. Kindly send the question papers to this mail id: catexamcse@gmail.com

Timing: 8:45 AM TO 11:45 AM

QP Pattern for II, III and IV year

Portion: 3rd and 4thUnits

Max. Marks: 100

Duration: 3hrs

Part A: 10 Questions (2 marks)

Part B: 5 Questions (13 marks) with choice


Part C: 1 Question (15 marks) with choice

Encl: 1.Question paper Template.
2. Time table

Regards
CAT Cell/ CSE

CAT EXAM CO ORDINATOR


HO/CSE


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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

CAT – II Time Table – April 2023

Date	II YEAR CSE A	II YEAR CSE B	III YEAR CSE A	III YEAR CSE B	IV YEAR CSE A	IV YEAR CSE B
11.04.2023 (Tuesday)	CS3451- Introduction to Operating Systems	CS8491- Artificial Intelligence and Machine Learning	CS8601 – Mobile Computing	CS8603 – Distributed System	CS8080 – Information Retrieval Techniques	CS8080 – Information Retrieval Techniques
12.04.2023 (Wednesday)	CS3401- Algorithms	CS3451- Introduction to Operating Systems	CS8603 – Distributed System	CS8651 – Internet Programming		
13.04.2023 (Thursday)	CS3492 – Database Management Systems	CS3401- Algorithms	CS8651 – Internet Programming	CS8075 – Data Warehousing and Data Minin	--	--
15.04.2023 (Saturday)	CS3452- Theory of Computation	CS3492 – Database Management Systems	CS8691 – Artificial Intelligence	CS8601 – Mobile Computing	--	--
18.04.2023 (Tuesday)	GE3451- Environmental Sciences and Sustainability	CS3452- Theory of Computation	CS8602 – Compiler Design	CS8691 – Artificial Intelligence	GE8076 – Professional Ethics in Engineering	GE8076 – Professional Ethics in Engineering
19.04.2023 (Wednesday)	CS8491- Artificial Intelligence and Machine Learning	GE3451- Environmental Sciences and Sustainability	CS8075 – Data Warehousing and Data Mining	CS8602 – Compiler Design	--	--

CAT COORDINATOR


HOD, CSE

VICE-PRINCIPAL

PRINCIPAL

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-2023(EVEN SEMESTER)
CAT II
SEATING ARRANGEMENT

HALL NUMBER	REGISTER NUMBER
BT 13(II A)	III CSE B 411520104046 -411520104079
	II CSE B 411521104061-411521104093
BT14(II B)	III CSE A - 411520104031-411520104045,41152010404301-305,307-315,701-703
	II CSE A - 411521104036-411521104060, 411521104301 – 306,309,311,312,701
BT5(III B)	III CSE B 411520104086 -411520104109
	II CSE B 411521104094-411521104123, 411521104308,313-320
BT6(III A)	III CSE A - 411520104001-411520104030
	II CSE A - 411521104001-411521104035


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ACADEMIC YEAR 2022-2023(EVEN SEMESTER)

CAT II

SEATING ARRANGEMENT

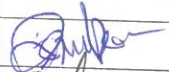
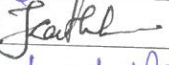
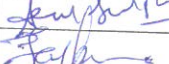


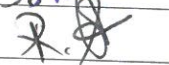

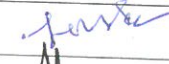


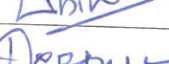
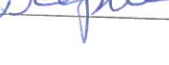

HALL NUMBER	REGISTER NUMBER
BT 13(II A)	III CSE B 411520104046 -411520104079
	II CSE B 411521104061-411521104093
BT14(II B)	III CSE A - 411520104031-411520104045,41152010404301-305,307-315,701-703
	II CSE A - 411521104036-411521104060, 411521104301 – 306,309,311,312,701
BT5(III B)	III CSE B 411520104086 -411520104109
	II CSE B 411521104094-411521104123, 411521104308,313-320
BT6(III A)	III CSE A - 411520104001-411520104030
	II CSE A - 411521104001-411521104035

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CAT II DUTY LIST

SNO	NAME OF THE FACULTY	11.04.23	12.04.23	13.04.23	15.04.23	18.04.23	19.04.23	SIGNATURE
1	Ms.Renuka.M		Duty					
2	Mr.Karthikeyan.M	Duty						
3	Ms.Arul Sandana Rani			Duty				
4	Ms.J.Jayaprabha	Duty						
5	Mr.Vijayanarayanan	Duty						
6	Mr.S.S.Vasantha Raja				Duty			
7	Mrs.R.Savithiri			Duty				
8	Mr.S.R.NobleLourdhu Raj				Duty			
9	Mrs. Jonisha P		Duty			Duty		
10	Mrs. Abbirami Rs		Duty			Duty		
11	Mrs. Vimala Devi A			Duty				
12	Ms.BersikinLibina				Duty		Duty	
13	Ms.H.Deepika					Duty	Duty	


CAT COORDINATOR



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CAT 2- ATTENDANCE SHEET

CLASS / SEM: II CSE B / IV SEM			BATCH: 2021 - 2025					
S.NO	REG. NO.	NAME	CS2452 TOC	CS2451 OS	CS2401 AL	CS2451 ESS	CS2491 ADML	CS2492 DBMS
1	411521104061	Lavanya P	Lavanya P	Lavanya P	Lavanya P	Lavanya P	Lavanya P	Lavanya P
2	411521104063	Little Jacob P	Little Jacob P	Little Jacob P	Little Jacob P	Little Jacob P	Little Jacob P	Little Jacob P
3	411521104064	Madhumitha S	Madhumitha S	Madhumitha S	Madhumitha S	Madhumitha S	Madhumitha S	Madhumitha S
4	411521104065	Mageswari D.	Mageswari D.	Mageswari D.	Mageswari D.	Mageswari D.	Mageswari D.	Mageswari D.
5	411521104066	Maha Lakshmi M	Maha Lakshmi M	Maha Lakshmi M	Maha Lakshmi M	Maha Lakshmi M	Maha Lakshmi M	Maha Lakshmi M
6	411521104067	Maluni B	Maluni B	Maluni B	Maluni B	Maluni B	Maluni B	Maluni B
7	411521104068	Mariya Joshwa S	Mariya Joshwa S	Mariya Joshwa S	Mariya Joshwa S	Mariya Joshwa S	Mariya Joshwa S	Mariya Joshwa S
8	411521104069	Meenatshigunavathi R	Meenatshigunavathi R	Meenatshigunavathi R	Meenatshigunavathi R	Meenatshigunavathi R	Meenatshigunavathi R	Meenatshigunavathi R
9	411521104070	Mohammed Abdul Rahim P	Mohammed Abdul Rahim P	Mohammed Abdul Rahim P	Mohammed Abdul Rahim P	Mohammed Abdul Rahim P	Mohammed Abdul Rahim P	Mohammed Abdul Rahim P
10	411521104071	Mohan Raj M	Mohan Raj M	Mohan Raj M	Mohan Raj M	Mohan Raj M	Mohan Raj M	Mohan Raj M
11	411521104072	Mohan Raji S.	Mohan Raji S.	Mohan Raji S.	Mohan Raji S.	Mohan Raji S.	Mohan Raji S.	Mohan Raji S.
12	411521104074	Navya Vijayan *	Navya Vijayan *	Navya Vijayan *	Navya Vijayan *	Navya Vijayan *	Navya Vijayan *	Navya Vijayan *
13	411521104075	Nimmi Hassan P	Nimmi Hassan P	Nimmi Hassan P	Nimmi Hassan P	Nimmi Hassan P	Nimmi Hassan P	Nimmi Hassan P
14	411521104076	Nitish Kumar S	Nitish Kumar S	Nitish Kumar S	Nitish Kumar S	Nitish Kumar S	Nitish Kumar S	Nitish Kumar S
15	411521104077	Nivedya V.	Nivedya V.	Nivedya V.	Nivedya V.	Nivedya V.	Nivedya V.	Nivedya V.
16	411521104078	Nivetha R	Nivetha R	Nivetha R	Nivetha R	Nivetha R	Nivetha R	Nivetha R
17	411521104080	Pavithra U	Pavithra U	Pavithra U	Pavithra U	Pavithra U	Pavithra U	Pavithra U
18	411521104081	Pooja B.	Pooja B.	Pooja B.	Pooja B.	Pooja B.	Pooja B.	Pooja B.
19	411521104082	Poojasree A	Poojasree A	Poojasree A	Poojasree A	Poojasree A	Poojasree A	Poojasree A
20	411521104083	Pradeep Kumar M.	Pradeep Kumar M.	Pradeep Kumar M.	Pradeep Kumar M.	Pradeep Kumar M.	Pradeep Kumar M.	Pradeep Kumar M.
21	411521104084	Priya M.	Priya M.	Priya M.	Priya M.	Priya M.	Priya M.	Priya M.
22	411521104085	Priyadarshini R	Priyadarshini R	Priyadarshini R	Priyadarshini R	Priyadarshini R	Priyadarshini R	Priyadarshini R
23	411521104086	Pugazhendhi J	Pugazhendhi J	Pugazhendhi J	Pugazhendhi J	Pugazhendhi J	Pugazhendhi J	Pugazhendhi J
24	411521104087	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E
25	411521104088	Rahul A.D	Rahul A.D	Rahul A.D	Rahul A.D	Rahul A.D	Rahul A.D	Rahul A.D
26	411521104089	Rajaram D	Rajaram D	Rajaram D	Rajaram D	Rajaram D	Rajaram D	Rajaram D
27	411521104090	Ramyra R	Ramyra R	Ramyra R	Ramyra R	Ramyra R	Ramyra R	Ramyra R
28	411521104091	Ranjith S	Ranjith S	Ranjith S	Ranjith S	Ranjith S	Ranjith S	Ranjith S
29	411521104092	Rathmikka V.V	Rathmikka V.V	Rathmikka V.V	Rathmikka V.V	Rathmikka V.V	Rathmikka V.V	Rathmikka V.V
30	411521104093	Reshma A	Reshma A	Reshma A	Reshma A	Reshma A	Reshma A	Reshma A
31	411521104094	Rishikesh R	Rishikesh R	Rishikesh R	Rishikesh R	Rishikesh R	Rishikesh R	Rishikesh R
32	411521104095	Sabarivasan S	Sabarivasan S	Sabarivasan S	Sabarivasan S	Sabarivasan S	Sabarivasan S	Sabarivasan S
33	411521104096	Sagana R	Sagana R	Sagana R	Sagana R	Sagana R	Sagana R	Sagana R
34	411521104097	Sai Prasanth A	Sai Prasanth A	Sai Prasanth A	Sai Prasanth A	Sai Prasanth A	Sai Prasanth A	Sai Prasanth A
35	411521104098	Sakthi Aswin S	Sakthi Aswin S	Sakthi Aswin S	Sakthi Aswin S	Sakthi Aswin S	Sakthi Aswin S	Sakthi Aswin S
36	411521104099	Shaajini Arul A	Shaajini Arul A	Shaajini Arul A	Shaajini Arul A	Shaajini Arul A	Shaajini Arul A	Shaajini Arul A
37	411521104100	Shifa Shamim *	Shifa Shamim *	Shifa Shamim *	Shifa Shamim *	Shifa Shamim *	Shifa Shamim *	Shifa Shamim *
38	411521104102	Sibe M.	Sibe M.	Sibe M.	Sibe M.	Sibe M.	Sibe M.	Sibe M.
39	411521104104	Siva M	Siva M	Siva M	Siva M	Siva M	Siva M	Siva M
40	411521104105	Siva S	Siva S	Siva S	Siva S	AB	Siva S	Siva S
41	411521104106	Sivakumar E.S	Sivakumar E.S	Sivakumar E.S	Sivakumar E.S	Sivakumar E.S	Sivakumar E.S	Sivakumar E.S
42	411521104108	Sneha P S	Sneha P S	Sneha P S	Sneha P S	Sneha P S	Sneha P S	Sneha P S
43	411521104109	Stalin M	Stalin M	Stalin M	Stalin M	AB	Stalin M	AB
44	411521104110	Stephen I	Stephen I	Stephen I	Stephen I	Stephen I	Stephen I	Stephen I
45	411521104111	Suchit R.	Suchit R.	Suchit R.	Suchit R.	Suchit R.	Suchit R.	Suchit R.
46	411521104112	Sudharsan B	Sudharsan B	Sudharsan B	Sudharsan B	Sudharsan B	Sudharsan B	Sudharsan B
47	411521104113	Sunilkumar K A	Sunilkumar K A	Sunilkumar K A	Sunilkumar K A	Sunilkumar K A	Sunilkumar K A	Sunilkumar K A
48	411521104114	Suriya M	Suriya M	Suriya M	Suriya M	AB	Suriya M	Suriya M
49	411521104115	Sushthi R	Sushthi R	Sushthi R	Sushthi R	Sushthi R	Sushthi R	Sushthi R

50	411521104116	Tharun M	M.Tu	M.Tu	M.Tu	M.Tu	M.Tu	M.Tu
51	411521104117	Theja Sri H.	Theja	Theja	Theja	Theja	Theja	Theja
52	411521104118	Veena P.G	Veena	Veena	Veena	Veena	Veena	Veena
53	411521104119	Vignesh Kumar R.	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh
54	411521104120	Vinodha V	Vinodha	Vinodha	Vinodha	Vinodha	Vinodha	Vinodha
55	411521104121	Vinothini V.	Vinothini	Vinothini	Vinothini	Vinothini	Vinothini	Vinothini
56	411521104122	Yogavarshini R	R. Yogav	R. Yogav	R. Yogav	R. Yogav	R. Yogav	R. Yogav
57	411521104123	Yuhan S	Yuhan	Yuhan	Yuhan	Yuhan	Yuhan	Yuhan
58	Lateral	Sakthivel B	B. Sakthi	AB	B. Sakthi	B. Sakthi	B. Sakthi	B. Sakthi
59	Lateral	Raman C	RAMAN	RAMAN	RAMAN	RAMAN	RAMAN	RAMAN
60	Lateral	Sam Francis Xavier R P	Sam Francis Xavier	Sam Francis Xavier	Sam Francis Xavier	Sam Francis Xavier	Sam Francis Xavier	Sam Francis Xavier
61	Lateral	Saravanan B	AB	Saravanan	Saravanan	Saravanan	Saravanan	Saravanan
62	Lateral	Satish Kumar I	Satish	AB	Satish	Satish	Satish	Satish
63	Lateral	Sridhar R	Sridhar	AB	Sridhar	Sridhar	Sridhar	Sridhar
64	Lateral	Sushmitha G	Sushmitha	Sushmitha	Sushmitha	Sushmitha	Sushmitha	Sushmitha
65	Lateral	Thomson Jayakumar	Thomson	AB	Thomson	Thomson	Thomson	Thomson
66		Dirya	Dirya	Dirya	Dirya	Dirya	Dirya	Dirya
67		Logeshwaran	Logeshwaran	Logeshwaran	Logeshwaran	Logeshwaran	Logeshwaran	Logeshwaran



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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CAT 2-ATTENDANCE SHEET

CLASS / SEM: III CSE A / VI SEM BATCH: 2020 - 2024

S.NO	REG. NO.	NAME	CS8691 AT	CS8697 TP	CS8695 DUDM	CS8699 DS	CS8602 CD	CS8601 MC
1	411520104001	Aarthy K P	Aarthy	Aarthy	Aarthy	Aarthy	Aarthy	Aarthy
2	411520104002	Aayisha K	Aayisha	Aayisha	Aayisha	Aayisha	Aayisha	Aayisha
3	411520104003	Abdul Lathief Ah	Abdul	Abdul	Abdul	Abdul	Abdul	Abdul
4	411520104004	Abirami V	Abirami	Abirami	Abirami	Abirami	Abirami	Abirami
5	411520104005	Akash D	Akash	Akash	Akash	Akash	Akash	Akash
6	411520104006	Apsar K	Apsar	Apsar	Apsar	Apsar	Apsar	Apsar
7	411520104007	Aphana S	Aphana	Aphana	Aphana	Aphana	Aphana	Aphana
8	411520104008	Aravindhan M	Aravindhan	Aravindhan	Aravindhan	Aravindhan	Aravindhan	Aravindhan
9	411520104009	Arjun Pt	Arjun Pt	Arjun Pt	Arjun Pt	Arjun Pt	Arjun Pt	Arjun Pt
10	411520104010	Arun Kishore E	Arun	Arun	Arun	Arun	Arun	Arun
11	411520104011	Arunkumar Ek	Ek Ar	Ek Ar	Ek Ar	Ek Ar	Ek Ar	Ek Ar
12	411520104012	Arun Kumar G	Arun	Arun	Arun	Arun	Arun	Arun
13	411520104013	Ashokkumar M	Ashokkumar	Ashokkumar	Ashokkumar	Ashokkumar	Ashokkumar	Ashokkumar
14	411520104014	Ashwin Kumar Pj	Ashwin	Ashwin	Ashwin	Ashwin	Ashwin	Ashwin
15	411520104015	Ashwinth Kk	Ashwinth	Ashwinth	Ashwinth	Ashwinth	Ashwinth	Ashwinth
16	411520104016	Atchaya R	Atchaya	Atchaya	Atchaya	Atchaya	Atchaya	Atchaya
17	411520104017	Brindha M	Brindha	Brindha	Brindha	Brindha	Brindha	Brindha
18	411520104018	Caleb J	Caleb	Caleb	Caleb	Caleb	Caleb	Caleb
19	411520104019	Chandraguptan T	Chandraguptan	Chandraguptan	Chandraguptan	Chandraguptan	Chandraguptan	Chandraguptan
20	411520104020	Dhamodharan Sk	Dhamodharan	Dhamodharan	Dhamodharan	Dhamodharan	Dhamodharan	Dhamodharan
21	411520104021	Dhana Sehwa R	Dhana	Dhana	Dhana	Dhana	Dhana	Dhana
22	411520104022	Dinakaran C	Dinakaran	Dinakaran	Dinakaran	Dinakaran	Dinakaran	Dinakaran
23	411520104023	Dinesh D	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
24	411520104024	Durga V	Durga	Durga	Durga	Durga	Durga	Durga
25	411520104025	Ganesh B	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh	Ganesh
26	411520104026	Goddumuri Raju	Goddumuri	Goddumuri	Goddumuri	Goddumuri	Goddumuri	Goddumuri
27	411520104027	Gomathi S	Gomathi	Gomathi	Gomathi	Gomathi	Gomathi	Gomathi
28	411520104028	Gowtham M	Gowtham	Gowtham	Gowtham	Gowtham	Gowtham	Gowtham
29	411520104029	Gunalan M	Gunalan	Gunalan	Gunalan	Gunalan	Gunalan	Gunalan
30	411520104030	Hareesh Anand Sr	Hareesh	Hareesh	Hareesh	Hareesh	Hareesh	Hareesh
31	411520104031	Harini K	Harini	Harini	Harini	Harini	Harini	Harini
32	411520104032	Harish Suriya S	Harish	Harish	Harish	Harish	Harish	Harish
33	411520104033	Hemachandran R	Hemachandran	Hemachandran	Hemachandran	Hemachandran	Hemachandran	Hemachandran
34	411520104034	Immanuel B	Immanuel	Immanuel	Immanuel	Immanuel	Immanuel	Immanuel
35	411520104035	Jayashree N	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree
36	411520104036	Jayashree V	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree	Jayashree
37	411520104037	Jeevanantham D	AB	Jeevanantham	Jeevanantham	Jeevanantham	Jeevanantham	Jeevanantham
38	411520104038	Kamalesh B	AB	Kamalesh	Kamalesh	Kamalesh	Kamalesh	Kamalesh
39	411520104039	Karthick A	Karthick	Karthick	Karthick	Karthick	Karthick	Karthick
40	411520104040	Karthick Subramaniyan S	Karthick	Karthick	Karthick	Karthick	Karthick	Karthick
41	411520104041	Karuppiyah K	Karuppiyah	Karuppiyah	Karuppiyah	Karuppiyah	AB	Karuppiyah
42	411520104042	Kathiravan M	Kathiravan	Kathiravan	Kathiravan	Kathiravan	Kathiravan	Kathiravan
43	411520104043	Kavidharshini R	Kavidharshini	Kavidharshini	Kavidharshini	Kavidharshini	Kavidharshini	Kavidharshini
44	411520104044	Kavikumar K	Kavikumar	Kavikumar	Kavikumar	Kavikumar	Kavikumar	Kavikumar
45	411520104045	Kaviya P	Kaviya	Kaviya	Kaviya	Kaviya	Kaviya	Kaviya
46	411520104301	Hemanraj Nv	Hemanraj	Hemanraj	Hemanraj	Hemanraj	Hemanraj	Hemanraj
47	411520104302	Kalaivani S	Kalaivani	Kalaivani	Kalaivani	Kalaivani	Kalaivani	Kalaivani

48	411520104303	Lavanya M	Lavanya M	Lavanya M	Lavanya M	Lavanya M	Lavanya M	Lavanya M	Lavanya M
49	411520104304	Mary Sowmiya S	Mary Sowmiya S	Mary Sowmiya S	Mary Sowmiya S	Mary Sowmiya S	Mary Sowmiya S	Mary Sowmiya S	Mary Sowmiya S
50	411520104305	Mathavan M	Mathavan M	Mathavan M	Mathavan M	Mathavan M	Mathavan M	Mathavan M	Mathavan M
51	411520104307	Nandhini S	Nandhini S	Nandhini S	Nandhini S	Nandhini S	Nandhini S	Nandhini S	Nandhini S
52	411520104308	Pavithra V	Pavithra V	Pavithra V	Pavithra V	Pavithra V	Pavithra V	Pavithra V	Pavithra V
53	411520104309	Priyadharshini D	Priyadharshini D	Priyadharshini D	Priyadharshini D	Priyadharshini D	Priyadharshini D	Priyadharshini D	Priyadharshini D
54	411520104310	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E	Pushparaj E
55	411520104311	Ramprasanna R	Ramprasanna R	Ramprasanna R	Ramprasanna R	Ramprasanna R	Ramprasanna R	Ramprasanna R	Ramprasanna R
56	411520104312	Samyukthaa Ad	Samyukthaa Ad	Samyukthaa Ad	Samyukthaa Ad	Samyukthaa Ad	Samyukthaa Ad	Samyukthaa Ad	Samyukthaa Ad
57	411520104313	Sandro Thisha R	Sandro Thisha R	Sandro Thisha R	Sandro Thisha R	Sandro Thisha R	Sandro Thisha R	Sandro Thisha R	Sandro Thisha R
58	411520104314	Uma Maheswari D	Uma Maheswari D	Uma Maheswari D	Uma Maheswari D	Uma Maheswari D	Uma Maheswari D	Uma Maheswari D	Uma Maheswari D
59	411520104315	Vignesh R	Vignesh R	Vignesh R	Vignesh R	Vignesh R	Vignesh R	Vignesh R	Vignesh R
60	411520104701	Jaydeep V	Jaydeep V	Jaydeep V	Jaydeep V	Jaydeep V	Jaydeep V	Jaydeep V	Jaydeep V
61	411520104702	Tanuj B	Tanuj B	Tanuj B	Tanuj B	Tanuj B	Tanuj B	Tanuj B	Tanuj B
62	lateral	T.Suman	T.Suman	T.Suman	T.Suman	T.Suman	T.Suman	T.Suman	T.Suman


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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING


CAT 2-ATTENDANCE SHEET

CLASS / SEM: III CSE B / VI SEM

BATCH: 2020 - 2024

S.NO	REG. NO.	NAME	CS8691 AT	CS8691 TP	CS8691 DUDPM	CS8691 DS	CS8691 CD	CS8691 MC
1	411520104046	Keraklin W	Keraklin	Keraklin	Keraklin	Keraklin	Keraklin	Keraklin
2	411520104047	Kiran Kumar M	Kiran	Kiran	Kiran	Kiran	Kiran	Kiran
3	411520104048	Kiruthika G	Kiruthika	Kiruthika	Kiruthika	Kiruthika	Kiruthika	Kiruthika
4	411520104049	Kollu Balavardhan K	Kollu	Kollu	AB	Kollu	Kollu	Kollu
5	411520104050	Koushikraju R	Koushik	Koushik	Koushik	Koushik	Koushik	Koushik
6	411520104052	Lavanya S	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya	Lavanya
7	411520104053	Logeshwari R	Logesh	Logesh	AB	Logesh	Logesh	Logesh
8	411520104054	Madesh C	Madesh	Madesh	Madesh	Madesh	Madesh	AB
9	411520104055	Manikandan M	Mani	Mani	Mani	Mani	Mani	Mani
10	411520104057	Manikandan S	Mani	Mani	Mani	Mani	Mani	Mani
11	411520104058	Marikala M	Marika	Marika	Marika	Marika	Marika	Marika
12	411520104059	Megasri K	Megasri	Megasri	Megasri	Megasri	Megasri	Megasri
13	411520104061	Mohamed Harris H	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed
14	411520104062	Mohamed Pakier Rahim Y	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed	Mohamed
15	411520104063	Monalisa V	Monalisa	Monalisa	Monalisa	Monalisa	Monalisa	Monalisa
16	411520104064	Muralikrishnan R S	Murali	Murali	Murali	Murali	Murali	Murali
17	411520104066	Muthupandi P	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
18	411520104067	Nalini R	Nalini	Nalini	Nalini	Nalini	Nalini	Nalini
19	411520104068	Naveen Kumar E	Naveen	AB	Naveen	Naveen	Naveen	Naveen
20	411520104069	Nithin Karthi R M	Nithin	Nithin	Nithin	Nithin	Nithin	Nithin
21	411520104070	Nithyasree P	Nithya	Nithya	Nithya	Nithya	Nithya	AB
22	411520104071	Nivetha B	Nivetha	Nivetha	Nivetha	Nivetha	Nivetha	Nivetha
23	411520104072	Prasannakumaran S	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna	Prasanna
24	411520104073	Praveenkumar T	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
25	411520104074	Priyanga D	Priyanga	Priyanga	Priyanga	Priyanga	Priyanga	Priyanga
26	411520104075	Ragul P	Ragul	Ragul	Ragul	Ragul	Ragul	Ragul
27	411520104076	Ragunath R	Ragunath	Ragunath	Ragunath	Ragunath	Ragunath	Ragunath
28	411520104077	Rajasubramani R	Rajasub	Rajasub	Rajasub	Rajasub	Rajasub	Rajasub
29	411520104078	Ratthika S	Ratthika	Ratthika	Ratthika	Ratthika	Ratthika	Ratthika
30	411520104079	Ravishankar G	Ravishank	Ravishank	Ravishank	Ravishank	Ravishank	Ravishank
31	411520104080	Rithick R	Rithick	Rithick	Rithick	Rithick	Rithick	Rithick
32	411520104081	Ruthresh P	Ruthresh	Ruthresh	Ruthresh	Ruthresh	Ruthresh	Ruthresh
33	411520104082	Samuel I	Samuel	Samuel	Samuel	Samuel	Samuel	Samuel
34	411520104083	Sanjaana S	Sanjaana	Sanjaana	Sanjaana	Sanjaana	Sanjaana	Sanjaana
35	411520104084	Sanjay R	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
36	411520104085	Saranya S	Saranya	Saranya	Saranya	Saranya	Saranya	Saranya
37	411520104086	Senthurammal S	AB	Senthu	Senthu	AB	Senthu	AB
38	411520104087	Shankar K	Shankar	Shankar	Shankar	Shankar	Shankar	Shankar
39	411520104088	Sharan G	Sharan	Sharan	Sharan	Sharan	Sharan	Sharan
40	411520104089	Shiyam Sundhar B	Shiyam	Shiyam	Shiyam	Shiyam	Shiyam	Shiyam

41	411520104090	Sivaprakash K	Sivaprakash	Sivaprakash	Sivaprakash	Sivaprakash	Sivaprakash	Sivaprakash
42	411520104091	Sivasabarishwari M	Sivasabari	Sivasabari	Sivasabari	Sivasabari	Sivasabari	Sivasabari
43	411520104092	Sneha Priya M	Sneha	Sneha	Sneha	Sneha	Sneha	Sneha
44	411520104093	Sowmiya B	Sowmiya	Sowmiya	Sowmiya	Sowmiya	Sowmiya	Sowmiya
45	411520104094	Srikanth R	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth	Srikanth
46	411520104095	Sunilkumar N	Sunilkumar	Sunilkumar	Sunilkumar	Sunilkumar	Sunilkumar	Sunilkumar
47	411520104096	Swetha B	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha
48	411520104097	Swetha Sree S	Swetha	Swetha	Swetha	Swetha	Swetha	Swetha
49	411520104098	Thanuja V	Thanuja	Thanuja	Thanuja	Thanuja	Thanuja	Thanuja
50	411520104099	Tharun M	Tharun	Tharun	Tharun	Tharun	Tharun	Tharun
51	411520104100	Thrisha B	Thrisha	Thrisha	Thrisha	Thrisha	Thrisha	Thrisha
52	411520104101	Vandhana J	Vandhana	Vandhana	Vandhana	Vandhana	Vandhana	Vandhana
53	411520104102	Varshini V	Varshini	Varshini	Varshini	Varshini	Varshini	Varshini
54	411520104103	Velmurugan D	Velmurugan	Velmurugan	Velmurugan	Velmurugan	Velmurugan	Velmurugan
55	411520104104	Venkatesh S	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh
56	411520104105	Vignesh S	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh	Vignesh
57	411520104106	Vijaya Harshitha	Vijaya	Vijaya	Vijaya	Vijaya	Vijaya	Vijaya
58	411520104107	Vijayakumar D	Vijayakumar	Vijayakumar	Vijayakumar	Vijayakumar	Vijayakumar	Vijayakumar
59	411520104108	Vishnu B	Vishnu	Vishnu	Vishnu	Vishnu	Vishnu	Vishnu
60	411520104109	Vishva B	Vishva	Vishva	Vishva	Vishva	Vishva	Vishva


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PERI INSTITUTE OF TECHNOLOGY				
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
CAT 2-ATTENDANCE SHEET				
CLASS / SEM: IV CSE A / VIII SEM			BATCH: 2019 - 2023	
S.NO	REG. NO.	NAME	CS8080/IRT	CE8076/PE
1	411519104001	Akash G	Akash G	Akash G
2	411519104002	Althaf Khan G	Althaf Khan G	Althaf Khan G
3	411519104003	Ansul Jafera	Ansul Jafera	Ansul Jafera
4	411519104004	Arulmani.G	Arulmani.G	Arulmani.G
5	411519104005	Augustin Raja J	Augustin Raja J	Augustin Raja J
6	411519104006	Ayesha Munawar M	Ayesha Munawar M	Ayesha Munawar M
7	411519104007	Babyswetha.P	Babyswetha.P	Babyswetha.P
8	411519104010	Blessy Evangelin L	Blessy Evangelin L	Blessy Evangelin L
9	411519104011	Chitra. C	Chitra. C	Chitra. C
10	411519104012	Dayana K	Dayana K	Dayana K
11	411519104013	Deepak Kumar Bhagat	Deepak Kumar Bhagat	Deepak Kumar Bhagat
12	411519104014	Dhaneshkumar M	Dhaneshkumar M	Dhaneshkumar M
13	411519104016	Dinesh Kumar.N	Dinesh Kumar.N	Dinesh Kumar.N
14	411519104017	Divya. G	Divya. G	Divya. G
15	411519104018	Gabriel Nixson Jones.J	Gabriel Nixson Jones.J	Gabriel Nixson Jones.J
16	411519104019	Gokul.R	Gokul.R	Gokul.R
17	411519104020	Gopinath.V	Gopinath.V	Gopinath.V
18	411519104021	Gownori Jasmitha	Gownori Jasmitha	Gownori Jasmitha
19	411519104022	Hariharan B	Hariharan B	Hariharan B
20	411519104023	Hariharan.R	Hariharan.R	Hariharan.R
21	411519104024	Hariharan.S	AB	Hariharan.S
22	411519104026	Harshini Rajkumar	Harshini Rajkumar	Harshini Rajkumar
23	411519104027	Hemavathy. K	Hemavathy. K	Hemavathy. K
24	411519104028	Jagatheesan V	Jagatheesan V	Jagatheesan V
25	411519104029	Jasmine Jenifer Mary X	Jasmine Jenifer Mary X	Jasmine Jenifer Mary X
26	411519104031	Kabil J	Kabil J	Kabil J
27	411519104032	Kalaivani K	Kalaivani K	Kalaivani K
28	411519104033	Pavan Kaligiri	Pavan Kaligiri	Pavan Kaligiri
29	411519104034	Karthick.A	Karthick.A	AB
30	411519104035	Keerthana.V	Keerthana.V	Keerthana.V
31	411519104036	Kishore C	Kishore C	Kishore C
32	411519104037	Kishore.U	Kishore.U	Kishore.U
33	411519104038	Kumaravel B M	Kumaravel B M	Kumaravel B M
34	411519104039	Lakshmi Priya.S	Lakshmi Priya.S	Lakshmi Priya.S
35	411519104041	Logeshwaran S	Logeshwaran S	Logeshwaran S
36	411519104042	Malavika.M	Malavika.M	Malavika.M
37	411519104043	Manasa A	Manasa A	Manasa A
38	411519104044	Mani Bharathi. B	Mani Bharathi. B	Mani Bharathi. B
39	411519104045	Manikandan.V	Manikandan.V	Manikandan.V
40	411519104046	Mareeswari.M	Mareeswari.M	Mareeswari.M
41	411519104047	Medepalli Yadidya	Medepalli Yadidya	Medepalli Yadidya
42	411519104048	Mohamed Hameed N	Mohamed Hameed N	Mohamed Hameed N
43	411519104049	Mukesh.S	Mukesh.S	Mukesh.S
44	411519104050	Muthukumar M	Muthukumar M	Muthukumar M
45	411519104053	Nandhini. J	Nandhini. J	Nandhini. J


46	411519104054	Naveen L	Naveen AB	Naveen
47	411519104060	Ben Joseph.P	AB	AB
48	411519104093	Swetha.C	Swetha	Swetha.
49	411519104302	Balaji R	Balaji	Balaji

Rajesh

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PERI INSTITUTE OF TECHNOLOGY				
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING				
CAT 2-ATTENDANCE SHEET				
CLASS / SEM: IV CSE B / VIII SEM			BATCH: 2019 - 2023	
S.NO	REG. NO.	NAME	CS8080 / IRT	CE8076 / PE
1	411519104040	Linga Sai Dhathri	Lingalai	Lingalai
2	411519104051	Nallapaneni Vamsi Krishna	Nallapaneni	Nallapaneni
3	411519104052	Namburi Srinadh	Namburi	Namburi
4	411519104055	Naveenkumar.D	Naveenkumar.D	Naveenkumar.D
5	411519104056	Naveen Kumar .M	Naveenkumar .M	Naveenkumar .M
6	411519104057	Nedunseraladhan S	Nedunseraladhan S	Nedunseraladhan S
7	411519104058	Nishanthi A	Nishanthi .A	Nishanthi .A
8	411519104061	Parthiban D	Parthiban D	Parthiban D
9	411519104062	Pavithra.M	Pavithra .M.	Pavithra .M.
10	411519104063	Poli.Sunil	Poli Sunil	Poli Sunil
11	411519104064	Ponduri.Sri Sushma	Ponduri Sri Sushma	Ponduri .Sri Sushma
12	411519104065	Pooja M	AB	Pooja .m
13	411519104066	Pradeep. T. R	Pradeep .T.R	Pradeep .T.R
14	411519104067	Prakash.R	Prakash	Prakash
15	411519104068	Praveen Kumar.S	Praveen Kumar .S	Praveen Kumar .S
16	411519104069	Praveen Kumar.G	Praveen Kumar .G	Praveen Kumar .G
17	411519104070	Priyadharshan V	Priyadharshini .V	Priyadhar .v
18	411519104071	Priyadharshini.M	Priyadharshini .M	Priyadhar .m
19	411519104072	Raghava R	Raghava .R	Raghava .R
20	411519104073	Rajamurali. M	Rajamurali	Rajamurali
21	411519104074	Revathi S	Revathi S	Revathi S
22	411519104075	Rishi Ashok A	Rishi Ashok .A	Rishi Ashok .A
23	411519104076	Rishya Sirungaran.G	Rishya	Rishya
24	411519104077	Roshni M	AB	Roshni
25	411519104078	Roy Reuban Raj.E	AB	Roy Reuban Raj .E
26	411519104079	Sai Charan.G	Sai Charan .G	Sai Charan .G
27	411519104080	Sanjay. D	AB	Sanjay .D
28	411519104081	Santhosh Kumar. M	Santhosh	Santhosh
29	411519104082	Savitha.B	Savitha	Savitha
30	411519104083	Shanmugaraj A	AB	Shanmugaraj .A
31	411519104084	Silambarasan. K	Silambarasan .K	Silambarasan .K
32	411519104085	Sivanandhan.R	Sul .R.	Sul .R
33	411519104086	Sneha M	Sneha	Sneha
34	411519104087	Sowmiya. C	Sowmiya	AB
35	411519104088	Sugashini.M	M. Sugashini	M. sugashini
36	411519104089	Sunil.S	Sunil .S	Sunil .S

37	411519104091	Sureshmanikandan.K	Sureshmanikandan	Sureshmanikandan
38	411519104092	Surya. V	Surya.	Surya.
39	411519104094	Tamilselvan V	Tamilselvan	Tamilselvan
40	411519104095	Tharanidharan.P	Tharanidharan P	Tharanidharan P
41	411519104097	Vetri Chelvan.S	Vetri Chelvan	Vetri Chelvan
42	411519104098	Vignesh Waran	Vignesh	Vignesh
43	411519104099	Vikram Rj	Vikram	Vikram
44	411519104100	Vishwa C	Vishwa	Vishwa
45	411519104101	Yokesh S	Yokesh	Yokesh.
46	411519104102	Yuvashree.R	Yuvashree	Yuvashree


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Year/Sem/Sec	: II/IV /B	Date	: 12/04/2023
Department	: CSE	Duration	: 3 hours
Faculty	: Mrs.R.SAVITHIRI	Max. Marks	: 100

PART A**(10 x 2= 20)**

1.	Name two differences between logical & physical addresses.	R	CO 3
2.	What is the purpose of paging the page table?	U	CO 3
3.	Explain how memory can be dynamically allocated using first fit , best fit & worst fit strategies.	U	CO 3
4.	Why are page sizes always powers of 2?	A	CO 3
5.	It is possible for a process to have two working sets, one representing data & another representing code? Explain.	A	CO 3
6.	What is the need for disk scheduling?	R	CO 4
7.	Why rotational latency usually not considered in disk scheduling?	R	CO 4
8.	What is a swap space?	R	CO 4
9.	Writable CD-ROM media are available in both 650 MB & 700 MB versions. What is the principle disadvantage, other than cost of the 700 MB version?	A	CO 4
10.	Define constant linear velocity.	R	CO 4


PART B (5x13=65)

11.	A) i) Discuss the given memory management technique with diagram : Partition allocation methods. (8 Marks) ii) Difference between Contiguous & Non-contiguous memory allocation. (5 Marks) (OR)	U	CO 3
	B) Explain fragmentation in detail. List the difference between internal & external fragmentation.	U	CO 3
12.	A) Given memory partitions of 100 k , 500 k , 200 k , 300 k , 600 k (in order) how would each of the first fit, best fit & worstfit algorithms place of 212 k , 417 k , 112 k & 426 k (in order)? Which algorithm makes the efficient use of memory? (OR)	Ap	CO 3
	B) Consider the string 0,1,2,3,0,1,2,3,0,1,2,3,4,5,6,7 with frame size 3 & 4. Calculate page fault using FIFO & LRU	Ap	CO 3
13.	A) The requested tracks, in the order received are : 55 , 58 , 39 , 18, 90 , 160 , 150 , 38 , 184. Apply the following disk scheduling algorithms. Starting track at 100. 1.FCFS 2.SSTF 3.SCAN 4.C-SCAN (OR)	Ap	CO 4
	B) On a disk with 1000 cylinders, numbers 0 to 999 , compute the no. of tracks the disk arm must move to satisfy all the request in the disk	Ap	CO4

	<p>queue. Assume the last request received was at track 345 & the head is moving towards track 0. The queue in FIFO order contains requests for the following tracks. 123 , 874 , 692 , 475 , 105 , 367. Perform the computation for the following scheduling algorithm.</p> <p>1.FIFO 2.SSTF 3.SCAN 4.Look 5.C-SCAN 6.C-Look.</p>		
14.	A) Explain about kernel I/O subsystem & transforming I/O to hardware operations. (OR)	U	CO4
	B)What is disk scheduling? Explain all its types in detail.	U	CO4
15.	A)With neat diagram, explain magnetic disk in detail. (OR)	R	CO4
	B)Describe some advantage & disadvantage of using SSD's as a caching tier & as a disk drive replacement compared with using only magnetic disks?	R	CO4

PART C (1 x15=15)

16.	<p>A) i) Consider a system that allocates pages of different sizes to its processes. What are the advantage of such a paging scheme? What modifications to the virtual memory system provide this functionality? (8 Marks)</p> <p>ii) Discuss the given memory management technique with diagrams: Paging & Translation Look- aside Buffer. (7 Marks) (OR)</p>	R	CO 3
	B)With a neat sktech, explain how logical address is translated into physical address using paging mechanism.	R	CO 3


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verified
[Signature]
13/4/23

CS3451-INTRODUCTION TO OPERATING SYSTEMS

Year/Sem/Sec	: II/IV /B	Date	: 12/04/2023
Department	: CSE	Duration	: 3 hours
Faculty	: Mrs.R.SAVITHIRI	Max. Marks	: 100

PART A

(10 x 2= 20)

1.	<p>Name two differences between logical & physical addresses.</p> <table border="1"> <thead> <tr> <th>Terms</th> <th>Logical Address</th> <th>Physical Address</th> </tr> </thead> <tbody> <tr> <td>Definition</td> <td>the CPU generates the logical address while the program is running</td> <td>The physical address is a location in memory.</td> </tr> <tr> <td>Location</td> <td>The logical address does not exist physically in the memory, and therefore it is sometimes known as a virtual address.</td> <td>The physical address is a location in the memory unit.</td> </tr> <tr> <td>Access</td> <td>The logical address is used as a reference to access the physical address.</td> <td>The physical address cannot be accessed directly.</td> </tr> <tr> <td>Address space</td> <td>The set of all the logical addresses generated about a program by the CPU is called Logical Address Space.</td> <td>Whereas all the physical addresses mapped to the logical address is called Physical Address Space.</td> </tr> </tbody> </table>	Terms	Logical Address	Physical Address	Definition	the CPU generates the logical address while the program is running	The physical address is a location in memory.	Location	The logical address does not exist physically in the memory, and therefore it is sometimes known as a virtual address.	The physical address is a location in the memory unit.	Access	The logical address is used as a reference to access the physical address.	The physical address cannot be accessed directly.	Address space	The set of all the logical addresses generated about a program by the CPU is called Logical Address Space.	Whereas all the physical addresses mapped to the logical address is called Physical Address Space.	R	CO 3
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Address space	The set of all the logical addresses generated about a program by the CPU is called Logical Address Space.	Whereas all the physical addresses mapped to the logical address is called Physical Address Space.																
2.	<p>What is the purpose of paging the page table? When paging occurs, storage locations are presented to the CPU as virtual memory. In the paging process, a page table stores the definition of each page. When an active process requests data, the MMU retrieves corresponding pages into frames located in physical memory for faster processing.</p>	U	CO 3															
3.	<p>Explain how memory can be dynamically allocated using first fit , best fit & worst fit strategies. First Fit algorithm scans the linked list and whenever it finds the first big enough hole to store a process, it stops scanning and load the process into that hole. The Best Fit algorithm tries to find out the smallest hole possible in the list that can accommodate the size requirement of the process. The worst fit algorithm scans the entire list every time and tries to find out the biggest hole in the list which can fulfill the requirement of the process.</p>	U	CO 3															
4.	<p>Why are page sizes always powers of 2? Because each bit position represents a power of 2, splitting an address between bits results in a page size that is a power of 2.</p>	A	CO 3															
5.	<p>It is possible for a process to have two working sets, one representing data & another representing code? Explain. A working set is just the concept that there is a set of virtual memory pages that the application is currently working with and that there are</p>	A	CO 3															

	other pages it isn't working with. Any page that is being currently used by the application is by definition part of the 'Working Set', so it's impossible to have two.		
6.	<p>What is the need for disk scheduling?</p> <p>Disk Scheduling Algorithms are needed because a process can make multiple I/O requests and multiple processes run at the same time. The requests made by a process may be located at different sectors on different tracks. Due to this, the seek time may increase more.</p>	R	CO 4
7.	<p>Why rotational latency usually not considered in disk scheduling?</p> <p>Most disks do not export their rotational position information to the host. Even if they did, the time for this information to reach the scheduler would be subject to imprecision and the time consumed by the scheduler is variable, so the rotational position information would become incorrect</p>	U	CO 4
8.	<p>What is a swap space?</p> <p>The interchange of data between virtual memory and real memory is called swapping and space on disk as "swap space".</p> <p>Virtual memory is a combination of RAM and disk space that running processes can use. Swap space is the portion of virtual memory that is on the hard disk, used when RAM is full.</p>	R	CO 4
9.	<p>Writable CD-ROM media are available in both 650 MB & 700 MB versions. What is the principle disadvantage, other than cost of the 700 MB version?</p> <p>Writable CD-ROM media are available in both 650 MB & 700 MB versions. What is the principle disadvantage, other than cost of the 700 MB version?</p>	A	CO 4
10	<p>Define constant linear velocity.</p> <p>CLV (constant linear velocity) is a term used in data storage to describe the rotational speed of discs. For discs to rotate at a constant linear velocity, they must spin at a specific number of revolutions per minute (RPM). As data is read from the outer to the inner edge, the disc must maintain a linear velocity for accurate data reading.</p>	R	CO 4

PART B (5x13=65)

11.	<p>A) i) Discuss the given memory management technique with diagram : Partition allocation methods.</p> <p>Single contiguous allocation: Simplest allocation method used by MS-DOS. All memory (except some reserved for OS) is available to a process. (2Marks)</p> <p>Partitioned allocation: Memory is divided into different blocks or partitions. Each process is allocated according to the requirement. (2Marks)</p> <p>Paged memory management: Memory is divided into fixed-sized units called page frames, used in a virtual memory environment. (2Marks)</p> <p>There are different Placement Algorithm: (2Marks)</p> <p>A. First Fit</p>	U	CO 3
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212 K is put in 500 K partition
 417 K is put in 600 K partition
 112 K is put in 288 K partition (new partition 288 K = 500 K - 212 K)
 426 K must wait.

Best-fit :
 212 K is put in 300 K partition
 417 K is put in 500 K partition
 112 K is put in 200 K partition
 426 K is put in 600 K partition
Worst-fit :
 212 K is put in 600 K partition

417 K is put in 500 K partition
 112 K is put in 388 K partition (600 K - 212 K)
 426 K must wait
 In this example, Best-fit turns out to be the best.

(OR)

B) Consider the string 0,1,2,3,0,1,2,3,0,1,2,3,4,5,6,7 with frame size 3 & 4. Calculate page fault using FIFO & LRU

Solution : 1) FIFO

Page frame size = 3

Frame	0	1	2	3	0	1	2	3	0	1	2	3	4	5	6	7
0	0	0	0	3	3	3	2	2	2	1	1	1	4	4	4	7
1		1	1	1	0	0	0	3	3	3	2	2	2	5	5	5
2			2	2	2	1	1	1	0	0	0	3	3	3	6	6
Page fault	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

* Page fault
 This example incurs 16 page faults in FIFO algorithm,

FIFO algorithm with four page frames

Frame	0	1	2	3	0	1	2	3	0	1	2	3	4	5	6	7
0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	4
1		1	1	1	1	1	1	1	1	1	1	1	1	5	5	5
2			2	2	2	2	2	2	2	2	2	2	2	2	6	6
3				3	3	3	3	3	3	3	3	3	3	3	3	7
Page fault	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Number of page fault is 8.

(7 Marks)

A

CO
3

2) LRU

Frame	0	1	2	3	0	1	2	3	0	1	2	3	4	5	6	7
0	0	0	0	3	3	3	2	2	2	1	1	1	4	4	4	7
1		1	1	1	0	0	0	3	3	3	2	2	2	5	5	5
2			2	2	2	1	1	1	0	0	0	3	3	3	6	6
Page fault	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Number of page fault = 16.

Consider the same reference string with 4 page frames

Frame	0	1	2	3	0	1	2	3	0	1	2	3	4	5	6	7
0	0	0	0	0	0	0	0	0	0	0	0	0	4	4	4	7
1		1	1	1	1	1	1	1	1	1	1	1	1	5	5	4
2			2	2	2	2	2	2	2	2	2	2	2	2	6	3
3				3	3	3	3	3	3	3	3	3	3	3	3	7
Page fault	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*

Number of page fault = 8.

(6 Marks)

	<p>B. Best Fit</p> <p>C. Worst Fit</p> <p>D. Next Fit</p> <p>ii) Difference between Contiguous & Non-contiguous memory allocation.</p> <p>Contiguous Memory Allocation : Contiguous memory allocation is basically a method in which a single contiguous section/part of memory is allocated to a process or file needing it. Because of this all the available memory space resides at the same place together, which means that the freely/unused available memory partitions are not distributed in a random fashion here and there across the whole memory space. (2.5 Marks)</p> <p>Non-Contiguous Memory Allocation : Non-Contiguous memory allocation is basically a method on the contrary to contiguous allocation method, allocates the memory space present in different locations to the process as per its requirements. As all the available memory space is in a distributed pattern so the freely available memory space is also scattered here and there. This technique of memory allocation helps to reduce the wastage of memory, which eventually gives rise to Internal and external fragmentation. (2.5 Marks) (OR)</p>		
	<p>B) Explain fragmentation in detail. List the difference between internal & external fragmentation.</p> <p>Fragmentation is an unwanted problem in the operating system in which the processes are loaded and unloaded from memory, and free memory space is fragmented. Processes can't be assigned to memory blocks due to their small size, and the memory blocks stay unused. (3 Marks)</p>		
	<p>Internal Fragmentation</p> <p>When a process is allocated to a memory block, and if the process is smaller than the amount of memory requested, a free space is created in the given memory block. Due to this, the free space of the memory block is unused, which causes internal fragmentation. (5 Marks)</p> <p>External Fragmentation</p> <p>External fragmentation happens when a dynamic memory allocation method allocates some memory but leaves a small amount of memory unusable. The quantity of available memory is substantially reduced if there is too much external fragmentation. There is enough memory space to complete a request, but it is not contiguous. It's known as external fragmentation. (5 Marks)</p>	U	CO 3
12.	<p>A) Given memory partitions of 100 k , 500 k , 200 k , 300 k , 600 k (in order) how would each of the first fit, best fit & worstfit algorithms place of 212 k , 417 k , 112 k & 426 k (in order)? Which algorithm makes the efficient use of memory?</p>	A	CO 3

A) The requested tracks, in the order received are : 55 , 58 , 39 , 18, 90 , 160 , 150 , 38 , 184. Apply the following disk scheduling algorithms. Starting track at 100.

4

- 1.FCFS (3 Marks) 2.SSTF (2 Marks) 3.SCAN (2 Marks) 4.C-SCAN (2 Marks)

Solution :

Disk request	FCFS		SSTF		SCAN		C-SCAN	
	Next track	No. of track traversed	Next track	No. of track traversed	Next track	No. of track traversed	Next track	No. of track traversed
55	55	45	90	10	150	50	150	50
58	58	03	58	32	160	10	160	10
39	39	19	55	03	184	24	184	24
18	18	21	39	16	90	94	18	166
90	90	72	38	01	58	32	38	26
160	160	70	18	31	55	03	39	01
150	150	10	150	132	39	16	55	16
38	38	112	160	10	38	01	58	03
184	184	146	184	24	18	20	90	32
Total track traversed		498		259		250		322

(OR)

B) On a disk with 1000 cylinders, numbers 0 to 999 ,compute the no.of tracks the disk arm must move to satisfy all the request in the disk queue. Assume the last request received was at track 345 & the head is moving towards track 0. The queue in FIFO order contains requests for the following tracks. 123 , 874 , 692 , 475 , 105 , 367. Perform the computation for the following scheduling algorithm.

- 1.FIFO 2.SSTF 3.SCAN 4.Look 5.C-SCAN 6.C-Look.

FIFO 2013 (3 Marks)

SSTF 1298 (2 Marks)

SCAN 1219 (2 Marks)

LOOK 1009 (2 Marks)

C-SCAN 1067 (2 Marks)

C-LOOK 1507 (2 Marks)

A CO4

14. A) Explain about kernel I/O subsystem & transforming I/O to hardware operations. (OR)

The kernel provides many services related to I/O. Several services such as scheduling, caching, spooling, device reservation, and error handling – are provided by the kernel, s I/O subsystem built on the hardware and device-driver infrastructure. The I/O subsystem is also responsible for protecting itself from errant processes and malicious users. (5 Marks)

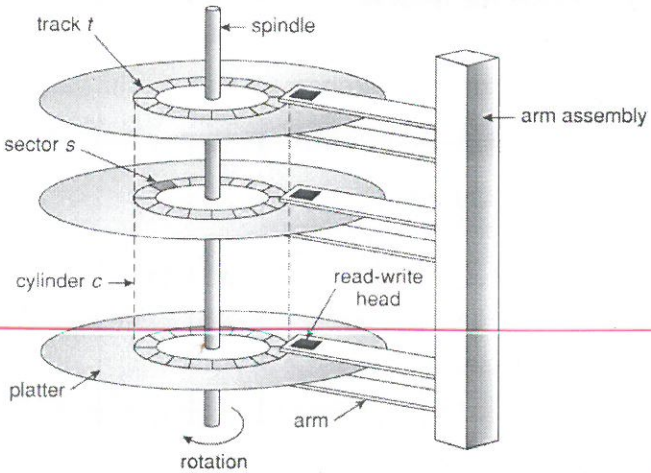
I/O Scheduling (8 Marks)

Buffering

Caching

Spooling and Device Reservation

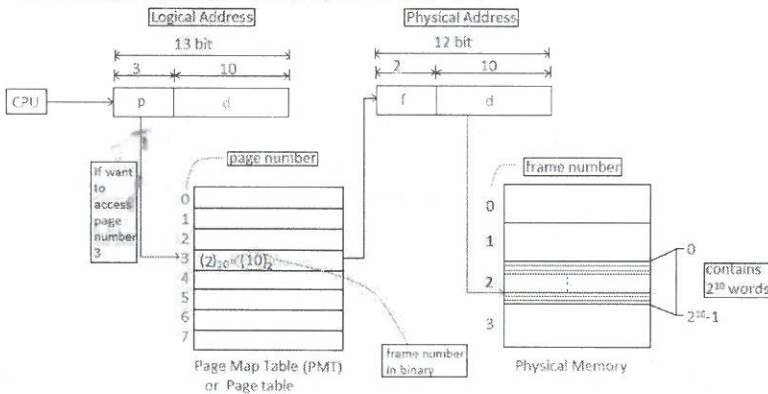
U CO4

	<p>Error Handling</p> <p>I/O Protection</p> <p>B)What is disk scheduling? Explain all its types in detail.</p> <p>The Disk Scheduling Algorithm in OS is used to manage input and output requests to the disk. (1 Mark)</p> <ul style="list-style-type: none"> • First Come First Serve (FCFS) (2 Mark) • Shortest Seek Time First (SSTF) (2 Mark) • SCAN. (2 Mark) • LOOK. (2 Mark) • C-SCAN. (2 Mark) • C-LOOK. (2 Mark) 		
15.	<p>A)With neat diagram, explain magnetic disk in detail.</p> <p>A magnetic Disk is a type of secondary memory that is a flat disc covered with a magnetic coating to hold information. It is used to store various programs and files. The polarized information in one direction is represented by 1, and vice versa. The direction is indicated by 0. (11 Marks)</p>  <p>(2 Marks)</p> <p>(OR)</p>	R	CO4
	<p>B)Describe some advantage & disadvantage of using SSD's as a caching tier & as a disk drive replacement compared with using only magnetic disks?</p> <p>An SSD, or solid-state drive, is a type of storage device used in computers. This non-volatile storage media stores persistent data on solid-state flash memory. SSDs replace traditional hard disk drives (HDDs) in computers and perform the same basic functions as a hard drive. (5 Marks)</p> <p>Here are five benefits that upgrading your computer to an SSD can provide. Durability and Reliability of an SSD. ...</p> <ul style="list-style-type: none"> • SSDs are Faster than Hard Drives. ... • Power and Energy Efficient. ... • Less Weight and No Noise. ... • More Practical Sizes/Form Factors. (8 Marks) 	R	CO4

PART C (1 x15=15)

16. A) i) Consider a system that allocates pages of different sizes to its processes. What are the advantage of such a paging scheme? What modifications to the virtual memory system provide this functionality? Paging is a function of memory management where a computer will store and retrieve data from a device's secondary storage to the primary storage. Memory management is a crucial aspect of any computing device, and paging specifically is important to the implementation of virtual memory. (6 Marks)

Number of frames = Physical Address Space / Frame size = $4\text{ K} / 1\text{ K} = 4 = 2^2$
 Number of pages = Logical Address Space / Page size = $8\text{ K} / 1\text{ K} = 8 = 2^3$

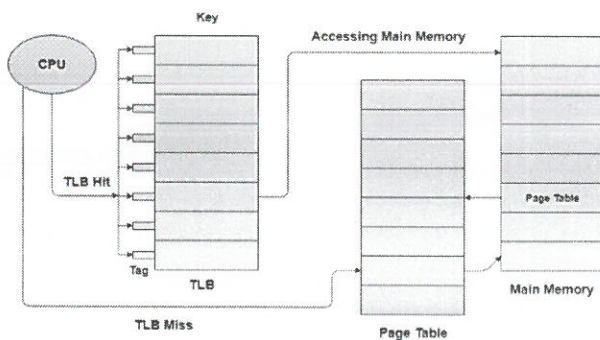


(2 Marks)

(8 Marks)

ii) Discuss the given memory management technique with diagrams: Paging & Translation Look-aside Buffer. (7 Marks)

A translation lookaside buffer (TLB) is a type of memory cache that stores recent translations of virtual memory to physical addresses to enable faster retrieval. This high-speed cache is set up to keep track of recently used page table entries (PTEs). (5 Marks)



(2 Marks) (OR)

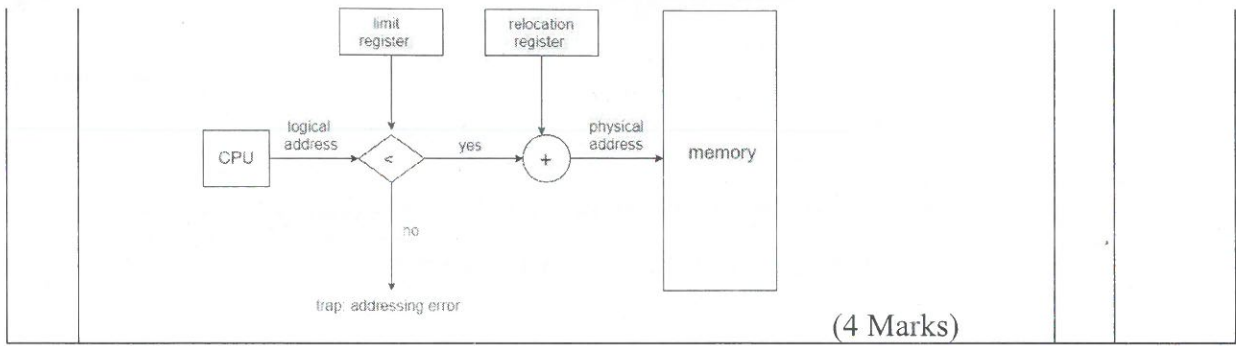
B) With a neat sktech, explain how logical address is translated into physical address using paging mechanism.
 Address Translation (AT) refers to the manipulation of IP addresses used to identify devices over the Internet. It serves to map private IP addresses within networks to public addresses that are routable over the Internet. The system is more often referred to as Network Address Translations (NAT). (12 Marks)

U

CO 3

U

CO 3



(4 Marks)

rozeeng

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Name of the College	Peri Institute of Technology
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Subject Code and Subject Name	CS3451 - operating system
Date of Examination and Session	12.04.2023
Semester	04

Evaluation Section

Instruction to Candidate: Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1, V-2, V-3

PART - A										Total Marks	Grand Total (In words)
Question No.	✓	Mark	Question No.	i ✓	i Marks	ii ✓	ii Marks	iii ✓	iii Marks		
1	✓	1	11	a						10	Seven Three
2	✓	2		b	✓	6					
3	✓	2	12	a	✓	13				6	
4	✓	1		b							
5	✓	2	13	a	✓	6				9	
6	✓	2		b							
7	✓	1	14	a						9	
8	✓	2		b	✓	9					
9	✓	1	15	a						9	
10	✓	2		b	✓	9					
			16	a	✓	5	✓	5			57
				b							
Total		16			52		5			73	GRAND TOTAL

Declaration by the examiner: Verified that all the questions attended by the student are valued and the total is found to be correct

20/4 Date	R. Senthil Name of the Examiner	<i>[Signature]</i> Signature of the Examiner
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11) B) Explain fragmentation in detail. List the difference between internal & external fragmentation.

Fragmentation: In an operating system, the fragmentation was unnecessary one. The paging concept was must avoid to the fragmentation. Because the fragmentation concept was produced by the lot of unused memory space. It can be lead to wastage of too many addressing storage.

Fragmentation Types

The fragmentation can be classified into two types.

- * Internal fragmentation
- * External fragmentation

This were the basic classification of the Fragmentation concept.

Internal fragmentation:

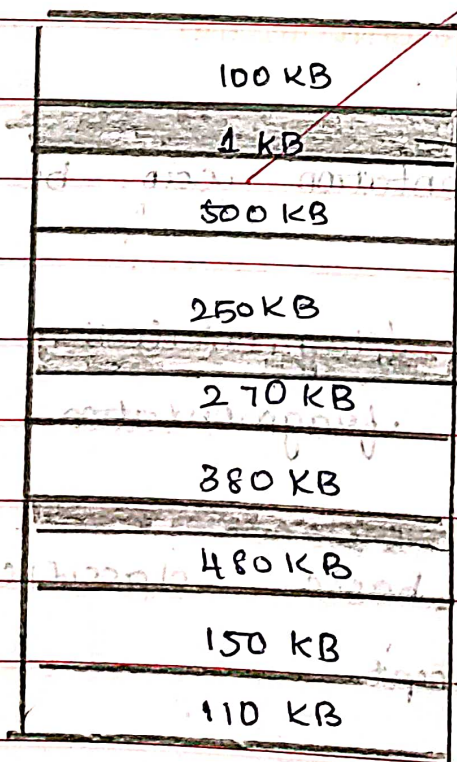
The internal fragmentation is one of the type of fragmentation.

It can be produce the free space.

That free space we can't use because of it can be produced by the less amount free space can be produced.

so that memory space is does not occupy more than 1 MB.

Then it can be indirectly go to the wastage of memory.



Internal fragmentation

In this diagram depicts that no of free space should be available. but we can't be stored by another KB value.

In this fragmentation table the 3 KB have to be inserted. It is not possible.

Because of free space only have in 1 KB. so we can't enter into the fragmentation.

Still that 3 KB should be in the waiting state.

Avoidance of Internal fragmentation:

The avoid of internal fragmentation we have to use the addressing concept must avoid to the internal fragmentation.

This is the one of the rule to produce not produced by the internal fragmentation.

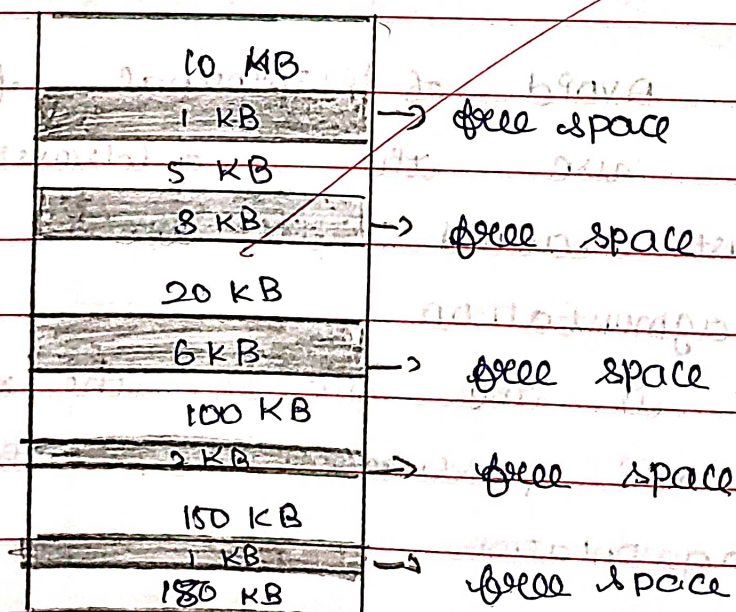
External fragmentation:

The external fragmentation is one of the type in fragmentation.

It can also produced by the free space.

That free spaces we can't use because it can be produced by number of free space. But it is not continuous.

So it is also major drawback of the external fragmentation in fragmentation concept.



External fragmentation

In this diagram depicts the many number of free spaces is available. But we can't enter in the other value of KB.

For example, In above external fragmentation, add in the process of 15 KB.

Solution:

It is not possible because the free space does not move the value of KB.

so we can't enter this 15 KB. still it can be in the waiting process.

In the particular case we have many number of free spaces but they are all in the split up. so then only we can't entering the process 15 KB.

Avoidance:

The Avoidance of external fragmentation is not used by addressing concept.

Because, use of addressing concept the split up of the free space should be avoid then maintain particular order free space should be produced.

12) a) Memory partitions

The Memory partition come under into the paging concept.

The paging concept should be majorly classified into two types

* Contiguous

* Non-contiguous

The contiguous memory allocation can be sub divided into four types

i) First fit

ii) Best fit

iii) Worst fit

iv) Next fit

In this problem give we find out the worst fit.

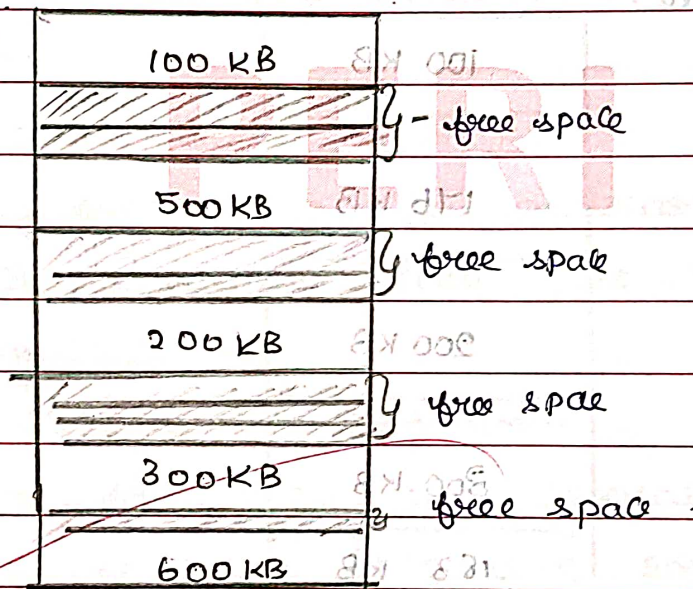
memory partitions: 100 KB, 500 KB, 200 KB, 300 KB, 600 KB

processes: 212 KB, 417 KB, 112 KB, 342 KB

1) First fit:

The first fit can be defined as the process which one is fit for in the first position of memory partitions it can be selected. This is called first fit algorithm.

Solution:



i) 212 KB is put into the 500 KB of memory partition.

$$500 - 212 = 288 \text{ KB}$$

288 KB free space has been generated

ii) 417 KB is put into the 600 KB memory partition.

$$600 - 417 = 183 \text{ KB}$$

183 KB free space has been produced.

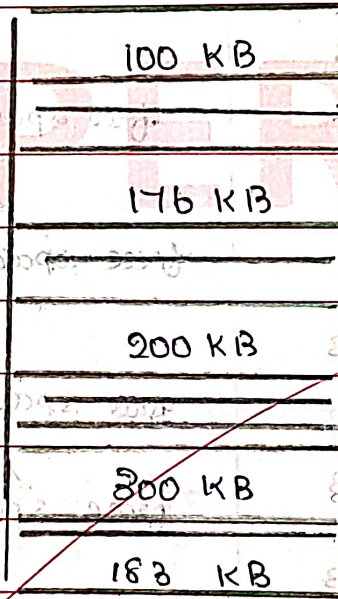
iii) 112 KB is put into the 288 KB of memory partition.

$$288 - 112 = 176$$

176 KB free space has been generated.

iv) 426 KB is not put into the any memory partition.

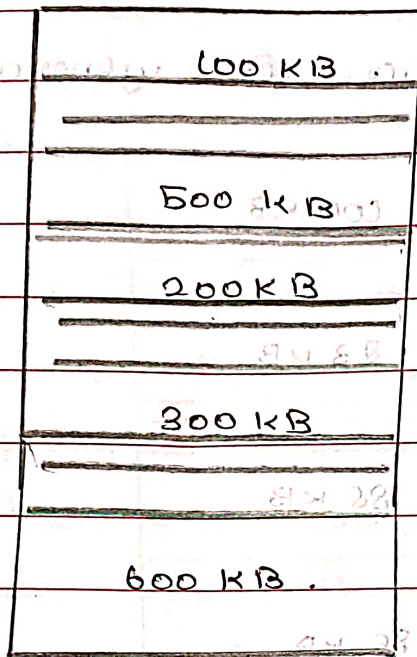
Hence, the 426 KB must be in the waiting state.



2) Best fit:

The Best fit can be defined as the which one of the memory partition should be produced by the less amount of free space can be produced. It is called best fit.

Question:



i) 212 KB is put into the 300 KB of memory partition.

$$300 - 212 = 88 \text{ KB}$$

88 KB free space is generated.

ii) 417 KB is put into the 500 KB of memory partition.

$$500 - 417 = 83 \text{ KB}$$

83 KB free space is generated.

iii) 112 KB is put into the 200 KB of memory partition.

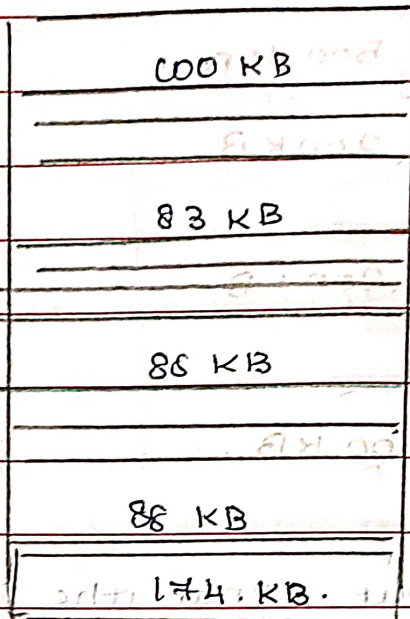
$$200 - 112 = 88 \text{ KB}$$

88 KB free space is generated.

iv) 426 KB is put into the 600 KB of memory partition.

$$600 - 426 = 174 \text{ KB}$$

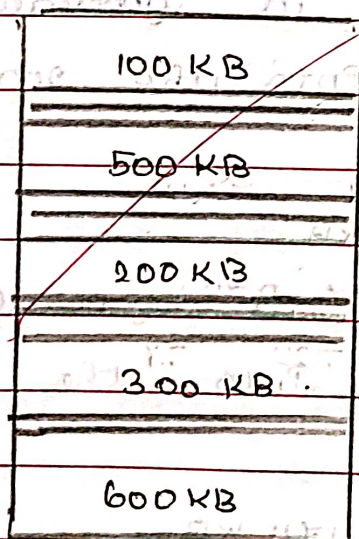
174 KB free space is generated.



3) Worst fit:

The worst fit can be vice versa process of the best fit.

Because, which one of the memory partition should be produced by the high free space. It is known as worst fit.



i) 212 KB is put into the 600 KB of memory partition.

$$600 - 212 = 388 \text{ KB}$$

388 KB free space is generated

ii) 417 KB is put into the 500 KB of memory partition.

$$500 - 417 = 83 \text{ KB}$$

83 KB free space is generated.

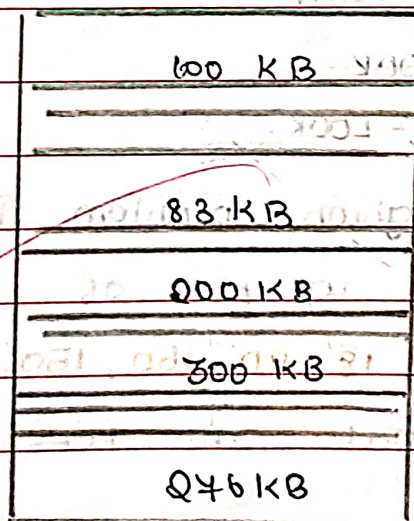
iii) 112 KB is put into the 388 KB memory partition.

$$388 - 112 = 276 \text{ KB}$$

276 KB free space is generated.

iv) 426 KB is not put into the any memory partition.

Hence, P4 can be in a must for waiting state.



This is three types of the memory

of algorithm.

The efficient use of memory algorithm is Best of Pt.

13) A) Disk scheduling algorithm:

The disk scheduling algorithm is used to find the performing of computation in the given data set.

The disk scheduling algorithm can be classified into

- * FCFS
- * SSTF
- * SCAN
- * C-SCAN
- * LOOK
- * C-LOOK.

Now the given problem is we should be plotted in the graph of data set

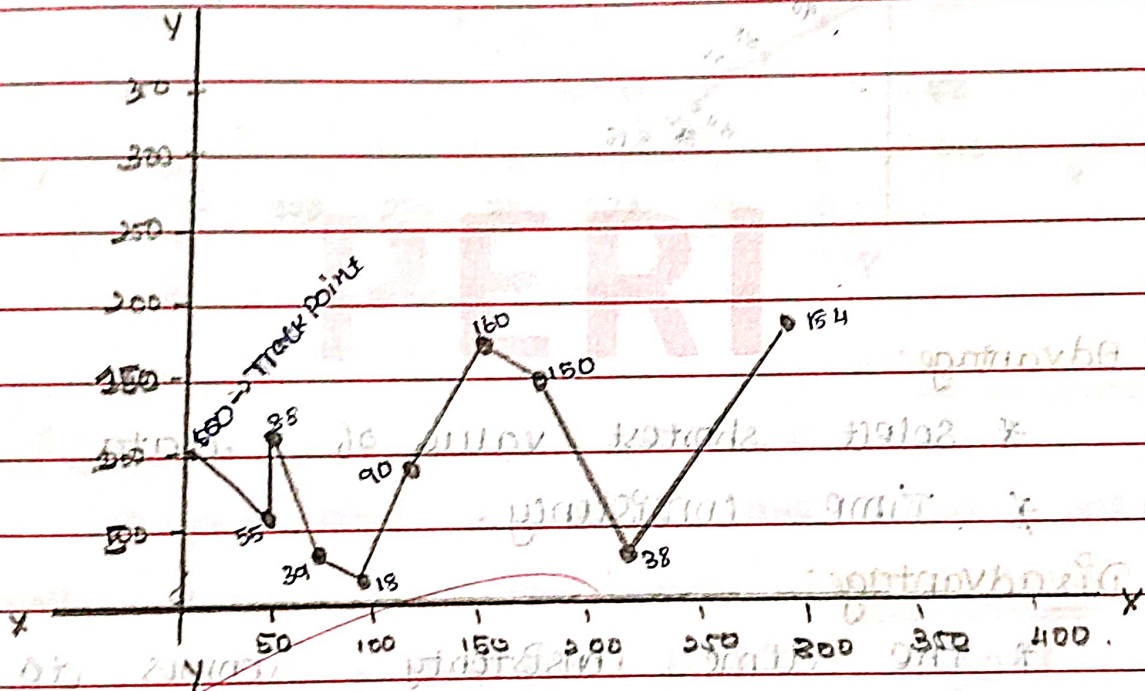
55, 58, 89, 18, 90, 160, 150, 38, 184

We find out the FCFS, SSTF, SCAN, C-SCAN.

9) ECFS

First come first served queue can be defined as the we can't change at any particular job dates. Just we have plotted into the graph. In this method is called First come first served. Order received: 55, 88, 39, 18, 90, 160, 150, 38, 184

Track Point = 100



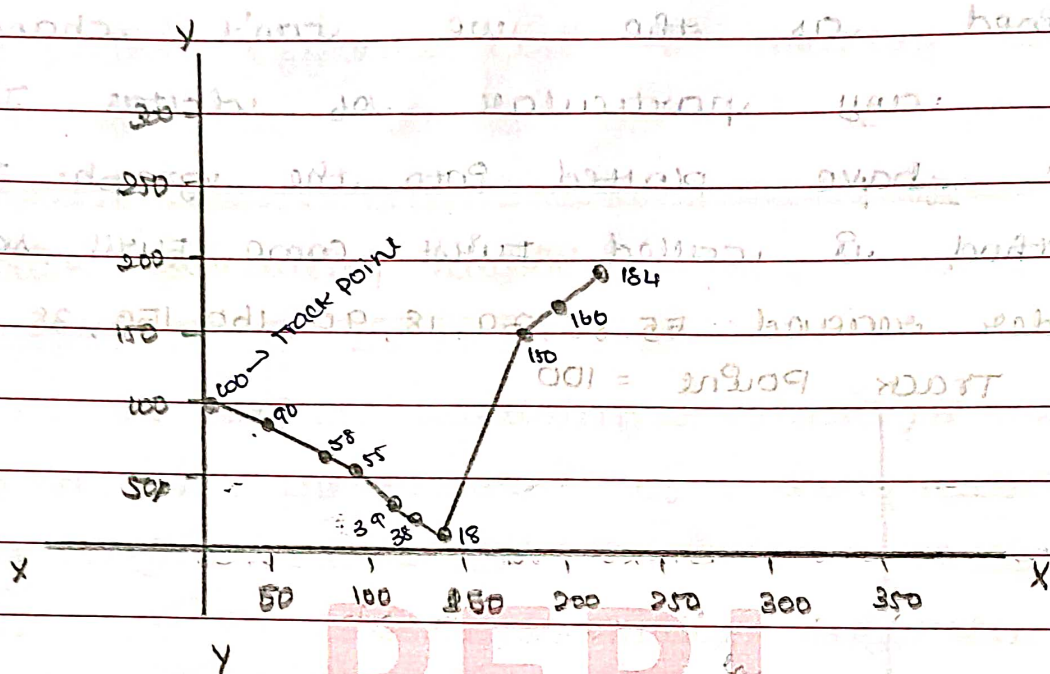
Advantage

- * It can easy to plotted
- * Take less time.

11) SSTF

The SSTF can be defined as the the given data should be formed in the ascending order. That means

which one has smallest y point p.t can be select and point.



Advantage:

- * Select shortest value of data
- * Time consistency.

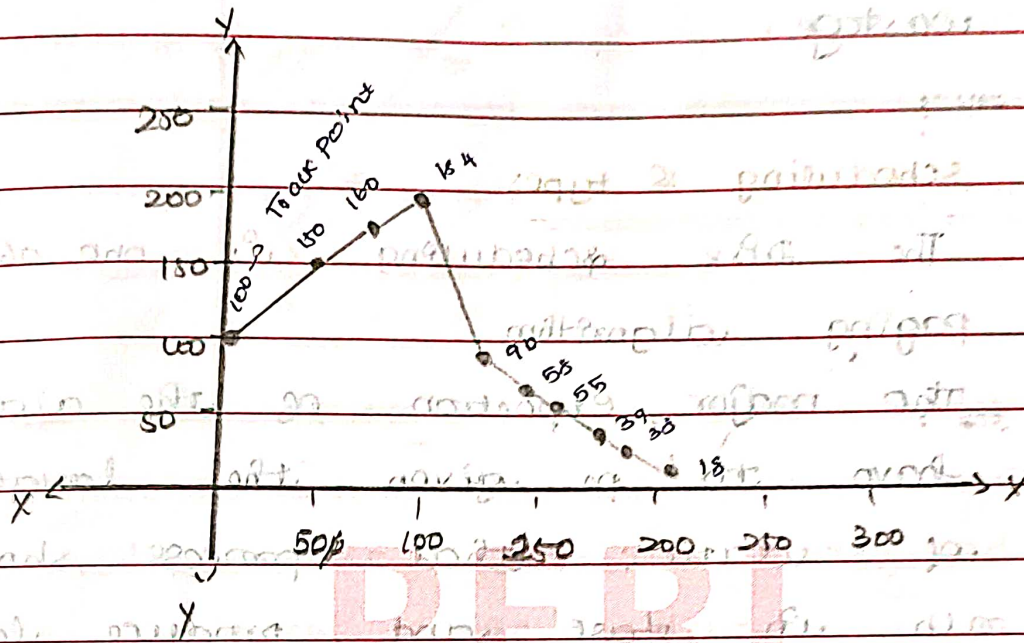
Disadvantage:

- * The time consistency comes to low then suddenly p.t can be raised.

iii) SCAN:

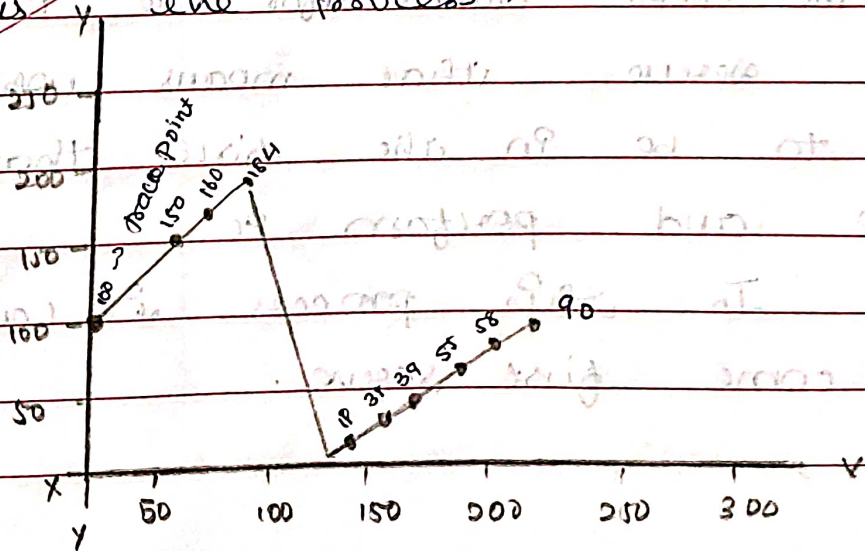
The SCAN can be defined as the similar to the SSTF, because the same way produced by the graph plottings.

In our assumptions to take which
 extra points should be selected either in
 ascending or descending order.



iv) C-SCAN

SCAN and C-SCAN are same one
 small difference Pt come under the
 below of the graph then it should
 continuous the process



Disadvantage:

The major disadvantage is the time wastage.

14) B) Disk scheduling & types

The disk scheduling is one of the paging algorithm.

The major expectation of the algorithm we have to give the large set of data, that process should be run in fast and produce less consumption of time.

The disk scheduling algorithm can be classified into types

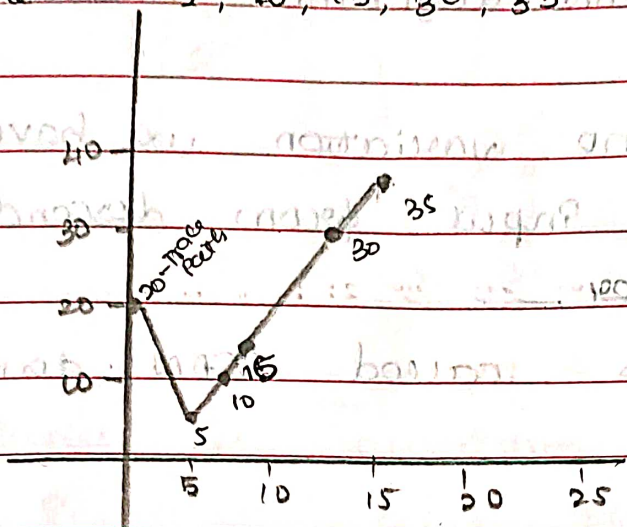
(i) FCFS (ii) SSTF (iii) SCAN (iv) C-SCAN (v) LOOK (vi) C-LOOK

1) FCFS:

The FCFS stands for the First come first serve, that means which data have to be in the first, that can be choose and perform it.

In this process is called first come first serve.

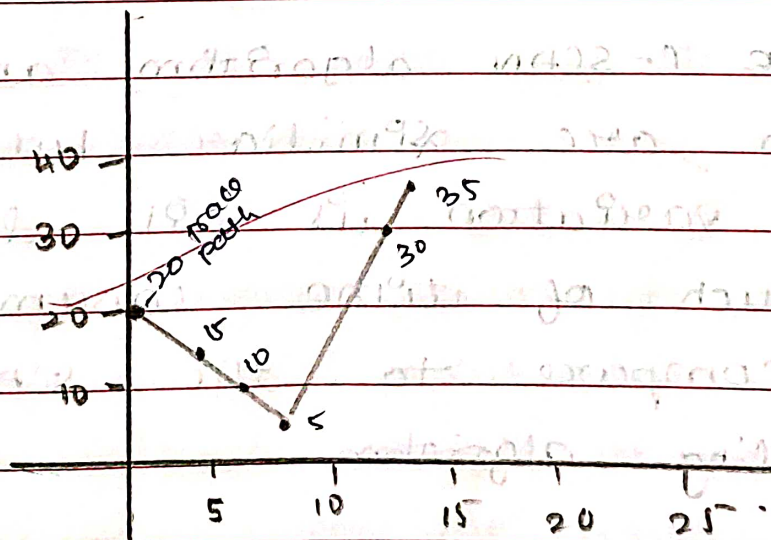
Example) 5, 10, 15, 30, 35 trace path: 20.



This is First come first serve.

ii) SSTF:

The SSTF can be defined as the which the data value should the low that can be selected for for initial node, the traced your tracing path. It is called SSTF.

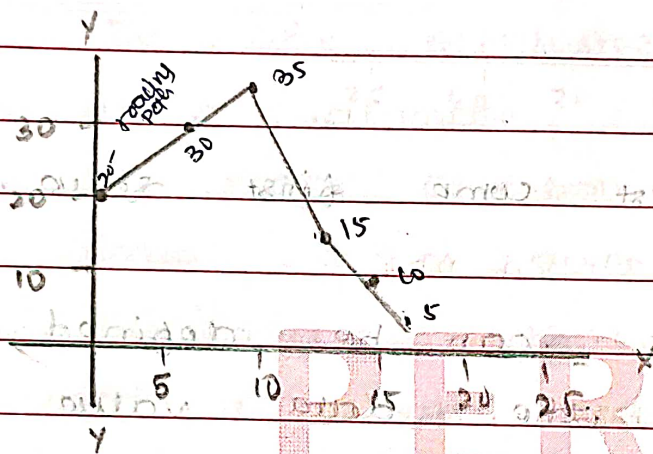


This is called SSTF algorithm of disk.

iii) SCAN: The SCAN algorithm is similar to the SSTF.

But one variation we have to selected the input from descending or ascending order.

It is called SCAN disk scheduling

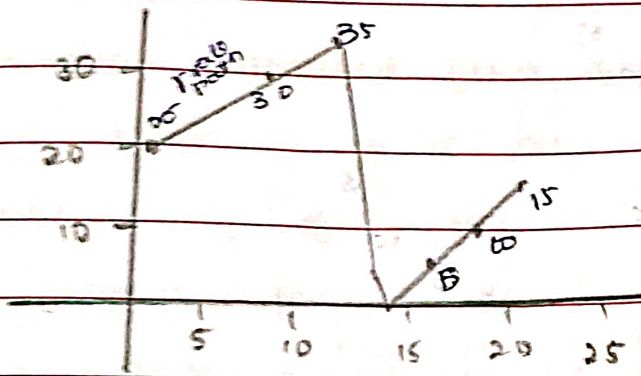


Hence it is known as SCAN disk scheduling algorithm.

iv) C-SCAN

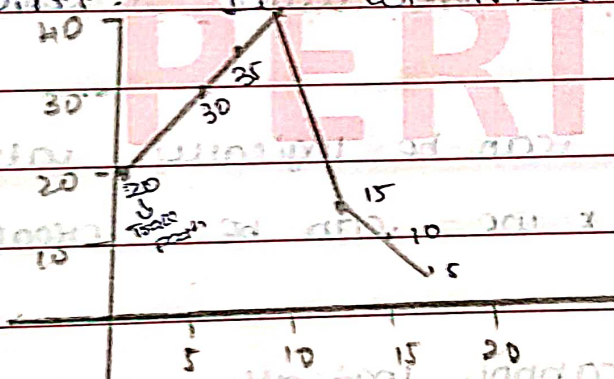
The C-SCAN algorithm and SCAN algorithm are similar but one small variation is it have take too much of time consumption.

Compare to the SCAN disk scheduling algorithm.



(v) LOOK

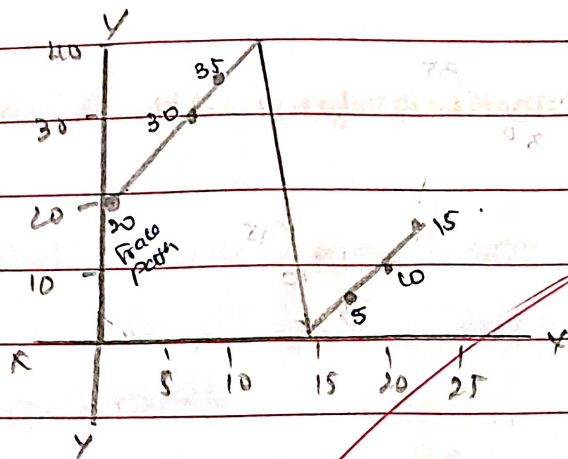
Mostly all algorithms are similar now on these part similar to the SCAN algorithm, the small difference is the reaching head stops still go the last point. It is meant for look algorithm.



Hence it is known as the LOOK disk scheduling algorithm.

(vi) C-LOOK

C-LOOK is also similar to the LOOK but one small variation is it have too much of time consumption compare to the other disk scheduling algorithm.



Hence PE is known as C- LOOK disk algorithm scheduling.

Part - A

1) Logical address: * We can't create this address.

* It can be logically already produced.

Physical address: * we can be create this address.

* It cannot logically and then we have to be produced.

2) purpose of paging:

The purpose of paging can be defined as the we have to produced the large set of data has been processed but with less consumption of time and then avoid to the number of missing page.

3) Dynamically allocated first fit & worst fit.

The first fit can be defined as the process of the which is fit for the first position, then it is called first fit of dynamically allocated.

The worst fit can be defined as the process of which partition has to be produced high amount of free space. It is called worst fit for dynamically allocated.

4) Why the pages are always power of 2.

The pages size are always power of 2. Because the SSD drive can be in the one of the type. should be handled by the power of 2.

5) yes, it can be possible for a process

of two working sets, one representing data should be used in the another data with the help of the multi programming. so we have to implement more than one code.

b) Need for disk scheduling.

The need of the disk scheduling algorithm is used to the larger data process can be done in smaller amount of time. Then only it is needed for DS.

7) Rational latency are not usually considered in disk scheduling because it should be have not any rationalize in the disk scheduling algorithm. So then only we can't considered the rational latency.

8) Swap space:

The swap space concept is major role in the operating system. Because that paging resource allocation should be enter, the page should filled, then swapping the space for page frame.

9) In CD-ROM media were available in both 650 MB & 700 MB.

The CD-ROM have not have consist much amount of storage, then it is major disadvantage.

10) Constant linear velocity:

The constant linear velocity can be defined as the the particular of constant state in the produced by algorithm. It should be in the linear way of speed. Hence it is known as constant linear velocity.

15) SSD

The solid substrate disk can be defined as the used to the replacement of with using in magnetic disks.

The magnetic disks are only in the perform of the SSD. The SSD can be performed in both volatile and non-volatile

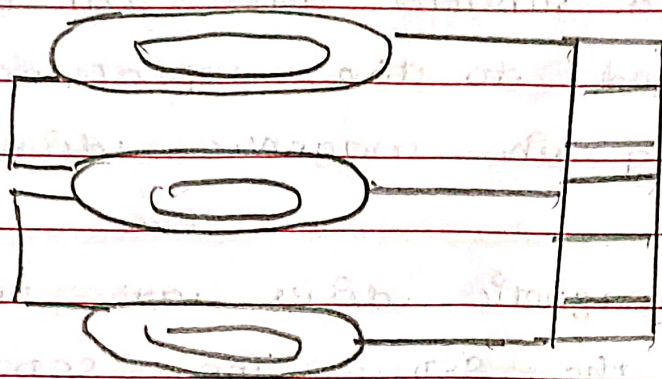
non-volatile SSD can be the power off, or shut down the system the SSD concept of magnetic disks does not remove.

still it can be in the concept for ever, so the maintenance of the SSD in magnetic is easy to stored.

The magnetic concept of disk in the SSD it can be perform in both positive and negative terminals.

The magnetic concept, the under disk should be rotated, then the upper

of the disk also rotated in the vice versa



This is the simple way of produced by the SSD of Magnetic disk.

In the SSD can be classified into four types

* SATA

* 2

* PCIe

* NVM

This are the four types of solid substrate disk.

In the concept fully based caching.

The caching means the memory have contain too much of data in the storage.

Then it can't be allow enter into the any memory.

Now it can be helped for the cache problem.

The caching user should be implemented by the disk concept the unwanted back up process should be removed.

This is the SSD caching tree is as a disk drive compared with the magnetic disk.

Advantages:

- The major advantages are
- * SSD has to be implemented for magnetic disk.
 - * It takes less consumption of time
 - * Easy to understand.

Disadvantage:

It can be performed only by the magnetic disk not for other process. It is a major drawback of SSD.

Part - C.

(b) A) Paging:

The paging can be defined as to use the calculated and avoidance to the paging Miss & No of page faults.

That paging concept should be classified into the major one is Virtual Memory:

Virtual Memory:

The virtual memory means the which you have to be seen that can be implemented.

The primary memory ^{can} be divided into two small blocks. that small block can be represented as the secondary memory.

The each and every block of the secondary memory should have been in the process.

That process related to the
primary memory.

Page fault can be defined as
the how many number of
page miss value have got. It
is called page fault.

The paging can be produced
by the addressing mode is
called Page hit.

The page cannot produced
by any addressing mode is
called page miss.

The page demand should
be arisen because the page
frame was fully completed then
another page value should be
enter we have not that much
of place, it is known as
page demand.

The functionality of the paging process should be in three types

i) FCFS

ii) LFS

iii) optimal.

These are basic concept of the virtual memory.

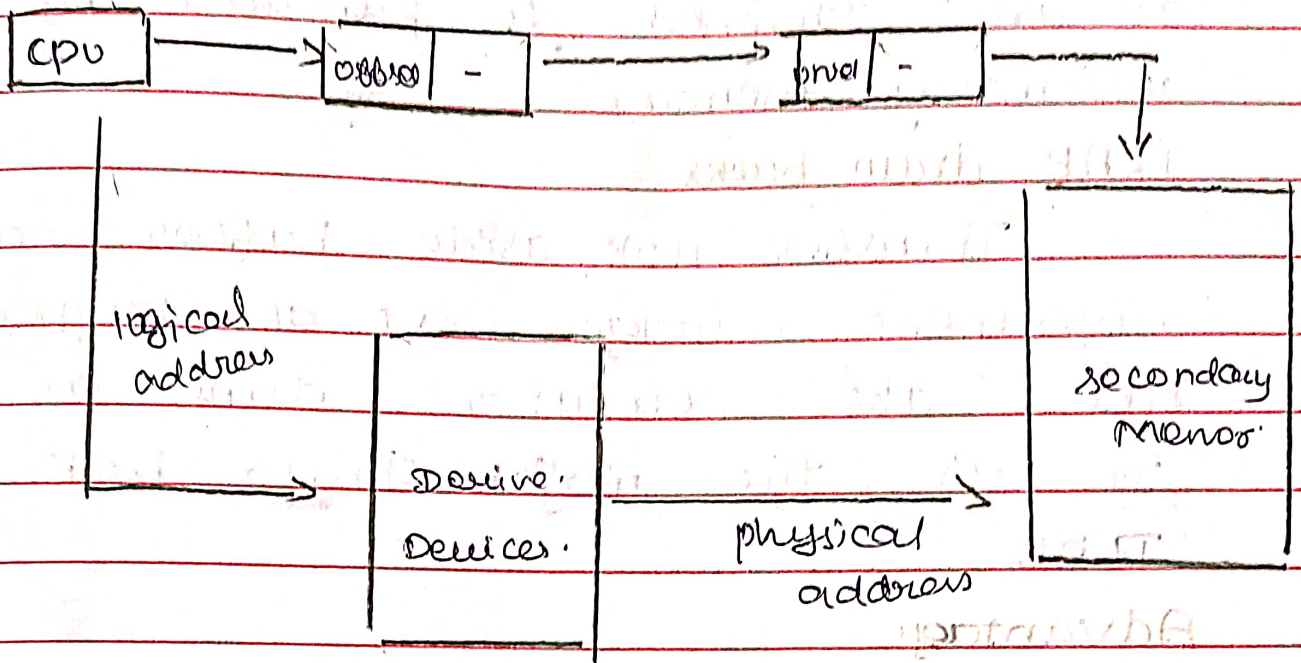
Then it also used to translate the logical address into the physical address.

It is called the virtual memory paging.

ii) Paging & TLAB

The Translation Look aside buffer can be defined the page of the logical address can be converted to the physical address.

It is the major role of the paging TLAB.



* In the Translation LOOK aside
 buffer process can be defined
 as the ip have to be
 perform both the object and ones

Then the logical addresses can
 be enter into the device devices
 and then allow to the
 physical address,

Then physical address should
 be stored to the secondary
 memory.

* That the secondary storage devices all are combined to produced by the primary memory.

TLAB draw backs:

Transfer look aside buffers can be implement larger set of programs but the execution time is less. It is the major Draw back of TLAB.

Advantage:

TLAB advantage is it have to allow the more than one set of virtual and then it can be used to the another representing code.

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CAT II-RESULT ANALYSIS										
CLASS / SEM: II CSE A / IV SEM			BATCH: 2021 - 2025							
S.NO	REG. NO.	NAME	CS3451 OS	CS3401 AL	CS3491 AIML	CS3452 TOC	CS3492 DBMS	GE3451 ESS	No. of Sub Absent	No. of Sub failed
1	411521104001	Abdul Majith A	51	55	50	50	50	A	1	1
2	411521104002	Abishekraj K B	50	55	50	63	53	56	0	0
3	411521104003	Abinash S	60	73	66	82	58	55	0	0
4	411521104004	Adnan Mohammed S	52	56	50	65	55	50	0	0
5	411521104005	Akash Jebaraj I	57	54	50	87	66	56	0	0
6	411521104006	Annamalai M	53	55	57	63	43	50	0	1
7	411521104007	Archana B	64	74	60	80	65	70	0	0
8	411521104008	Arokia Anushya A	53	56	50	70	55	A	1	1
9	411521104009	Arul Pandian P	50	55	65	63	60	58	0	0
10	411521104010	Ashwin V	55	70	53	63	55	50	0	0
11	411521104011	Bargavi A V	50	54	44	67	53	55	0	1
12	411521104012	Bhuvanesh G	56	50	67	50	76	66	0	0
13	411521104013	Chandrakala V	63	76	76	66	63	60	0	0
14	411521104015	Damodaren V	68	66	59	58	51	60	0	0
15	411521104016	Dayana M	58	78	70	87	60	75	0	0
16	411521104017	Deepak J	56	58	63	62	65	50	0	0
17	411521104018	Deepak Kumar K	57	55	60	69	55	58	0	0
18	411521104020	Deepan Chakkaravarthi	59	61	50	50	56	65	0	0
19	411521104021	Devakumari S	50	A	55	45	60	66	1	2
20	411521104022	Devatharshini B	50	62	55	86	50	50	0	0
21	411521104023	Dhanush V	56	52	60	80	50	A	1	1
22	411521104025	Dharani T	58	65	60	78	50	63	0	0
23	411521104027	Dinesh Chaudhary D	50	47	60	71	50	OD	0	1
24	411521104028	Dinesh Kumar L	58	50	66	70	65	51	0	0
25	411521104029	Dinesh Kumar M	60	56	56	66	50	55	0	0
26	411521104030	Dinesh Kumar S	56	65	60	58	60	66	0	0
27	411521104032	Elakiya K	58	58	54	50	55	65	0	0
28	411521104033	Elakya R	56	71	57	90	58	64	0	0
29	411521104035	Gayathri B	54	55	76	83	53	65	0	0
30	411521104036	Gokul D	56	50	55	78	51	50	0	0
31	411521104037	Gokul R	55	50	58	74	50	65	0	0
32	411521104038	Gowsalya D	57	76	58	91	67	56	0	0
33	411521104039	Guberan T	55	65	74	70	56	51	0	0
34	411521104040	Hari Krishnan U	67	50	45	64	55	65	0	1
35	411521104041	Harini M	51	55	61	74	53	54	0	0
36	411521104042	Harish S	60	50	68	55	65	50	0	0
37	411521104044	Ishasri P	63	58	65	78	44	55	0	1
38	411521104045	Jagan M	56	65	50	65	56	55	0	0
39	411521104046	Jana R	55	75	65	58	56	70	0	0
40	411521104047	Jeffrin Nelson J	64	76	71	66	56	60	0	0
41	411521104048	Jitto M	56	65	70	56	50	65	0	0
42	411521104051	Karthi S	66	76	58	60	54	76	0	0
43	411521104052	Karthika E	59	57	67	82	55	15	0	1
44	411521104053	Karthikeyan N	65	70	65	56	51	65	0	0
45	411521104054	Kavitha S	60	56	76	74	67	62	0	0

46	411521104055	Kavitha V	60	64	65	A	66	51	1	1	
47	411521104056	Keerthika M	67	A	56	67	A	66	2	2	
48	411521104057	Keerthivasan S	50	59	65	65	50	76	0	0	
49	411521104058	Kowsalya B	56	75	65	60	50	66	0	0	
50	411521104059	Lakshmi Priya M	50	65	66	75	56	60	0	0	
51	411521104060	Lavanya B	52	55	76	A	A	81	2	2	
52	LATERAL	Arun	55	60	65	66	50	A	1	1	
53	LATERAL	Christoper Danier	A	70	A	65	50	A	3	3	
54	LATERAL	Harish P	56	67	65	A	45	60	1	2	
55	LATERAL	Pradeep Raj	57	65	A	59	69	78	1	1	
56	LATERAL	Dhivakar M	21	A	64	83	73	55	1	2	
57	LATERAL	Mohamed sirajuddin	66	52	73	55	A	66	1	1	
58	LATERAL	Anitha M	56	75	65	60	50	A	1	1	
59	LATERAL	Baskar C	A	65	A	75	56	60	2	2	
60	LATERAL	Madan Kishore	52	55	76	84	A	81	1	1	
61	LATERAL	Praveen V	55	50	58	74	50	65	0	0	
Present			59	58	58	58	57	55			
Absent			2	3	3	3	4	6			
Passed			58	57	56	57	54	53			
Failed			1	1	2	1	3	1			
Pass Percentage(with Total Strength)			95.1	93.4	91.8	93.4	88.5	86.9			
Pass Percentage (with Absentees Count)			98.3	98.3	96.6	98.3	94.7	96.4			
No. Of Students Passed in all the Subjects			39								
Overall Pass %			58.21								

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PERI INSTITUTE OF TECHNOLOGY										
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CAT II-RESULT ANALYSIS										
CLASS / SEM: II CSE B / IV SEM			BATCH: 2021 - 2025							
S.NO	REG. NO.	NAME	CS3452 TOC	CS3451 OS	CS3401 AL	GE3451 ESS	CS3491 AIML	CS3492 DBMS	No. of Sub Absent	No. of Sub failed
1	411521104031	Divya S	66	55	60	50	74	40	0	1
2	411521104061	Lavanya P	56	55	60	45	67	65	0	1
3	411521104063	Little Jacob P	55	60	65	70	56	57	0	0
4	411521104064	Madhumitha S	59	61	61	50	59	89	0	0
5	411521104065	Mageswari D.	58	79	70	81	71	84	0	0
6	411521104066	Maha Lakshmi M	51	64	70	50	68	73	0	0
7	411521104067	Maluni B	50	51	59	60	54	71	0	0
8	411521104068	Mariya Joshwa S	55	68	55	76	65	60	0	0
9	411521104069	Meenatshigunavathi R	53	51	67	62	76	70	0	0
10	411521104070	Mohammed Abdul Rahim P	51	60	61	60	71	66	0	0
11	411521104071	Mohan Raj M	65	50	50	60	53	53	0	0
12	411521104072	Mohan Raji S.	60	56	70	75	66	50	0	0
13	411521104074	Navya Vijayan *	56	70	78	89	65	85	0	0
14	411521104075	Nimmi Hassan P	50	50	59	57	65	56	0	0
15	411521104076	Nitish Kumar S	66	75	70	65	60	66	0	0
16	411521104077	Nivedya V.	63	64	78	80	72	87	0	0
17	411521104078	Nivetha R	65	51	53	60	55	68	0	0
18	411521104080	Pavithra U	50	50	60	66	65	63	0	0
19	411521104081	Pooja B.	57	65	68	58	70	77	0	0
20	411521104082	Poojasree A	51	70	50	76	60	50	0	0
21	411521104083	Pradeep Kumar M.	55	54	50	50	56	74	0	0
22	411521104084	Priya M	65	77	58	61	56	51	0	0
23	411521104085	Priyadarshini R	65	75	59	61	50	60	0	0
24	411521104086	Pugazhendhi J	56	60	65	50	66	59	0	0
25	411521104087	Pushparaj E	60	64	52	55	58	60	0	0
26	411521104088	Rahul A.D	63	64	69	65	54	75	0	0
27	411521104089	Rajaram D	55	30	65	56	77	60	0	1
28	411521104090	Ramya R	65	55	60	65	66	56	0	0
29	411521104091	Ranjith S	55	65	55	56	75	66	0	0
30	411521104092	Rathmikaa V.V	57	76	72	60	71	91	0	0
31	411521104093	Reshma A	59	73	73	74	75	79	0	0
32	411521104094	Rishikesh R	55	65	75	66	50	65	0	0
33	411521104095	Sabarivasan S	50	54	60	50	50	54	0	0
34	411521104096	Sagana R	50	54	51	27	50	69	0	1
35	411521104097	Sai Prasanth A	58	70	59	53	59	75	0	0
36	411521104098	Sakthi Aswin S	50	50	50	65	65	67	0	0
37	411521104099	Shaajini Arul A	A	63	71	28	54	70	1	2
38	411521104100	Shifa Shamim *	50	50	69	50	56	74	0	0
39	411521104102	Sibe M.	66	51	51	65	50	54	0	0
40	411521104104	Siva M	50	50	50	52	50	57	0	0
41	411521104105	Siva S	76	65	23	65	A	76	1	2
42	411521104106	Sivakumar E.S	66	55	60	50	74	40	0	1
43	411521104108	Sneha P S	36	55	60	45	67	65	0	2
44	411521104109	Stalin M	55	60	65	A	56	A	2	2
45	411521104110	Stephen I	59	61	61	50	59	89	0	0
46	411521104111	Suchit R.	58	79	70	81	71	84	0	0
47	411521104112	Sudharsan B	51	64	56	50	68	73	0	0
48	411521104113	Sunilkumar K A	50	51	59	60	54	71	0	0
49	411521104114	Suriya M	76	65	56	65	A	76	1	1

50	411521104115	Sushthi R	52	73	74	56	71	88	0	0
51	411521104116	Tharun M	55	54	65	21	50	61	0	1
52	411521104117	Theja Sri H.	62	59	56	54	65	81	0	0
53	411521104118	Veena P.G	51	53	57	60	50	74	0	0
54	411521104119	Vignesh Kumar R.	55	60	75	58	65	75	0	0
55	411521104120	Vinodha V	55	60	75	50	65	60	0	0
56	411521104121	Vinothini V.	54	56	68	75	66	66	0	0
57	411521104122	Yogavarshini R	35	65	50	65	70	54	0	1
58	411521104123	Yuhan S	60	65	55	60	55	65	0	0
59	Lateral	Sakthivel B	60	A	65	45	60	76	1	2
60	Lateral	Raman C	58	79	28	81	71	84	0	1
61	Lateral	Sam Francis Xavier R P	51	64	70	50	68	73	0	0
62	Lateral	Saravanan B	A	51	59	60	54	71	1	1
63	Lateral	Satish Kumar I	76	65	56	65	A	76	1	1
64	Lateral	Sridhar R	52	A	74	56	71	88	1	1
65	Lateral	Sushmitha G	55	54	65	21	50	61	0	1
66	Lateral	Logeshwaran R	62	59	56	54	65	81	0	0
67	Lateral	Thomson Jayakumar	51	53	A	60	50	74	1	1
Present			65	65	66	66	64	66		
Absent			2	2	1	1	3	1		
Passed			63	64	64	59	64	64		
Failed			2	1	2	7	0	2		
Pass Percentage(with Total Strength)			94	95.5	95.5	88.1	95.5	95.5		
Pass Percentage (with Absentees Count)			96.9	98.5	97	89.4	100	97		
No. Of Students Passed in all the Subjects			48							
Overall Pass %			72.73							

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PERI INSTITUTE OF TECHNOLOGY										
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING										
CAT II-RESULT ANALYSIS										
CLASS / SEM: III CSE A / VI SEM			BATCH: 2020 - 2024							
S.NO	REG. NO.	NAME	CS8691 AI	CS8651 IP	CS8075 DWDM	CS8603 DS	CS8602 CD	CS8601 MC	No. of Sub Absent	No. of Sub failed
1	411520104001	Aarthy K P	66	40	60	50	74	40	0	2
2	411520104002	Aayisha K	56	55	60	45	67	65	0	1
3	411520104003	Abdul Lathief Ah	55	60	65	70	56	57	0	0
4	411520104004	Abirami V	59	61	61	50	59	89	0	0
5	411520104005	Akash D	58	79	70	81	71	84	0	0
6	411520104006	Apsar K	51	64	70	50	68	73	0	0
7	411520104007	Apshana S	30	51	59	60	54	71	0	1
8	411520104008	Aravindhana M	55	68	55	76	65	60	0	0
9	411520104009	Arjun Pt	53	51	67	62	76	70	0	0
10	411520104010	Arun Kishore E	51	60	61	60	71	66	0	0
11	411520104011	Arun Kumar Ek	65	50	50	60	53	53	0	0
12	411520104012	Arun Kumar G	60	56	70	75	66	50	0	0
13	411520104013	Ashokkumar M	56	70	78	89	65	85	0	0
14	411520104014	Ashwin Kumar Pj	50	50	59	57	65	43	0	1
15	411520104015	Ashwinth Kk	66	75	70	65	60	66	0	0
16	411520104016	Atchaya R	63	64	78	80	72	87	0	0
17	411520104017	Brindha M	65	51	53	60	55	68	0	0
18	411520104018	Caleb J	50	50	60	66	65	63	0	0
19	411520104019	Chandraguptan T	57	65	68	58	70	77	0	0
20	411520104020	Dhamodharan Sk	51	70	50	76	60	50	0	0
21	411520104021	Dhana Sehwa R	55	54	50	50	56	74	0	0
22	411520104022	Dinakaran C	65	77	58	61	56	51	0	0
23	411520104023	Dinesh D	65	75	59	61	50	60	0	0
24	411520104024	Durga V	56	60	65	50	66	59	0	0
25	411520104025	Ganesh B	60	64	52	55	58	60	0	0
26	411520104026	Goddumuri Raju	63	64	69	65	54	75	0	0
27	411520104027	Gomathi S	55	30	65	56	77	60	0	1
28	411520104028	Gowtham M	65	55	60	65	66	56	0	0
29	411520104029	Gunalan M	55	65	55	56	75	66	0	0
30	411520104030	Hareesh Anand Sr	57	76	72	60	71	91	0	0
31	411520104031	Harini K	59	73	73	74	75	79	0	0
32	411520104032	Harish Suriya S	55	65	75	66	50	65	0	0
33	411520104033	Hemachandran R	45	54	60	50	50	54	0	1
34	411520104034	Immanuel B	50	54	51	27	50	69	0	1
35	411520104035	Jayashree N	58	70	59	53	59	75	0	0
36	411520104036	Jayashree V	50	50	50	65	65	67	0	0
37	411520104037	Jeevanantham D	A	63	71	28	54	70	1	2
38	411520104038	Kamalesh B	A	50	69	50	56	74	1	1
39	411520104039	Karthick A	66	51	51	65	50	54	0	0
40	411520104040	Karthick Subramani	50	50	50	52	50	57	0	0
41	411520104041	Karuppiah K	76	65	56	65	A	76	1	1
42	411520104042	Kathiravan M	66	55	60	50	74	40	0	1
43	411520104043	Kavidharshini R	56	55	60	45	21	65	0	2
44	411520104044	Kavikumar K	55	60	65	70	56	57	0	0
45	411520104045	Kaviya P	59	61	61	50	59	89	0	0
46	411520104301	Hemanraj Nv	33	79	29	81	71	43	0	3
47	411520104302	Kalaivani S	51	64	70	50	68	73	0	0
48	411520104303	Lavanya M	50	51	59	60	54	71	0	0

49	411520104304	Mary Sowmiya S	76	65	56	65	A	76	1	1
50	411520104305	Mathavan M	52	73	74	56	71	88	0	0
51	411520104307	Nandhini S	55	54	65	21	50	61	0	1
52	411520104308	Pavithra V	62	59	56	54	65	81	0	0
53	411520104309	Priyadarshini D	51	53	57	A	50	74	1	1
54	411520104310	Pushparaj E	55	60	23	58	33	75	0	2
55	411520104311	Ramprasanna R	55	60	75	50	65	60	0	0
56	411520104312	Samyukthaa Ad	54	56	A	75	66	66	1	1
57	411520104313	Sandro Thisha R	35	65	50	65	70	54	0	1
58	411520104314	Uma Maheswari D	60	65	55	60	55	65	0	0
59	411520104315	Vignesh R	60	55	65	45	36	76	0	2
60	411520104701	Jaydeep V	58	79	21	81	71	A	1	2
61	411520104702	Tanuj B	51	A	70	50	68	73	1	1
62	411520104703	Suman T	50	51	59	60	54	71	0	0
Present			60	61	61	61	60	61		
Absent			2	1	1	1	2	1		
Passed			56	59	58	55	57	57		
Failed			4	2	3	6	3	4		
Pass Percentage(with Total Strength)			90.3	95.2	93.5	88.7	91.9	91.9		
Pass Percentage (with Absentees Count)			93.3	96.7	95.1	90.2	95	93.4		
No. Of Students Passed in all the Subjects			40							
Overall Pass %			65.57							

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CAT II-RESULT ANALYSIS										
CLASS / SEM: III CSE B / VI SEM				BATCH: 2020 - 2024						
S.NO	REG. NO.	NAME	CS8691 AI	CS8651 IP	CS8075 DWDI	CS8603 DS	CS8602 CD	CS8601 MC	No. of Sub Absent	No. of Sub failed
1	411520104046	Keraklin W	51	55	50	50	50	56	0	0
2	411520104047	Kiran Kumar M	50	55	50	63	53	56	0	0
3	411520104048	Kiruthika G	60	73	66	82	58	55	0	0
4	411520104049	Kollu Balavardhan K	52	56	A	65	55	50	1	1
5	411520104050	Koushikraju R	57	54	50	87	66	56	0	0
6	411520104051	Lavanya S	53	55	57	63	43	50	0	1
7	411520104052	Logeshwari R	64	74	A	80	65	70	1	1
8	411520104053	Madesh C	53	56	50	40	55	A	1	2
9	411520104054	Manikandan M	50	55	65	63	60	58	0	0
10	411520104055	Manikandan S	55	70	53	63	55	50	0	0
11	411520104057	Marikala M	45	54	50	67	53	55	0	1
12	411520104058	Megasri K	56	50	67	50	76	66	0	0
13	411520104059	Mohamed Harris H	63	76	76	66	63	60	0	0
14	411520104060	Mohamed Pakier Rahim Y	68	66	59	58	51	60	0	0
15	411520104061	Monalisa V	58	78	70	87	60	75	0	0
16	411520104062	Muralikrishnan R S	56	58	63	62	65	50	0	0
17	411520104064	Muthupandi P	57	55	60	69	55	58	0	0
18	411520104065	Nalini R	59	61	50	50	56	65	0	0
19	411520104066	Naveen Kumar E	50	A	55	56	60	66	1	1
20	411520104067	Nithin Karthi R M	50	62	44	86	50	50	0	1
21	411520104068	Nithyasree P	56	52	60	80	50	A	1	1
22	411520104069	Nivetha B	58	65	60	78	50	63	0	0
23	411520104070	Prasannakumaran S	50	57	60	71	50	OD	0	0
24	411520104071	Praveenkumar T	58	50	66	70	65	51	0	0
25	411520104072	Priyanga D	60	56	56	66	50	55	0	0
26	411520104073	Ragul P	56	65	60	58	60	66	0	0
27	411520104074	Ragunath R	58	58	54	50	55	65	0	0
28	411520104075	Rajasubramani R	56	71	57	90	58	64	0	0
29	411520104076	Ratthika S	54	55	76	83	53	65	0	0
30	411520104077	Ravishankar G	56	50	55	78	51	50	0	0
31	411520104078	Rithick R	55	50	58	74	50	65	0	0
32	411520104079	Ruthresh P	57	76	58	91	67	56	0	0
33	411520104080	Samuel I	55	65	74	70	56	51	0	0
34	411520104081	Sanjaana S	67	50	50	64	55	65	0	0
35	411520104082	Sanjay R	51	55	61	74	53	54	0	0
36	411520104083	Saranya S	60	50	68	55	65	50	0	0
37	411520104084	Senthurammal S	A	58	65	A	44	A	3	4
38	411520104085	Shankar K	56	43	50	65	56	55	0	1
39	411520104086	Sharan G	55	75	65	58	56	70	0	0
40	411520104087	Shiyam Sundhar B	64	76	71	66	56	60	0	0
41	411520104088	Sivaprakash K	56	65	70	56	50	65	0	0
42	411520104089	Sivasabarishwari M	66	76	58	60	54	76	0	0
43	411520104090	Sneha Priya M	59	57	67	82	55	15	0	1
44	411520104091	Sowmiya B	40	70	65	56	51	65	0	1
45	411520104092	Srikanth R	60	56	76	74	67	62	0	0
46	411520104093	Sunilkumar N	60	64	65	82	66	51	0	0
47	411520104094	Swetha B	67	74	56	67	A	66	1	1

48	411520104095	Swetha Sree S	50	45	65	65	50	76	0	1
49	411520104096	Thanuja V	A	75	65	60	50	66	1	1
50	411520104097	Tharun M	50	65	66	75	56	60	0	0
51	411520104098	Thrisha B	52	55	40	84	57	81	0	1
52	411520104099	Vandhana J	55	60	65	66	50	A	1	1
53	411520104100	Varshini V	65	70	55	65	50	59	0	0
54	411520104101	Velmurugan D	56	67	65	55	45	60	0	1
55	411520104102	Venkatesh S	57	65	76	59	69	78	0	0
56	411520104103	Vignesh S	55	60	64	83	73	55	0	0
57	411520104104	Vijaya Harshitha	A	52	73	A	50	A	3	3
58	411520104105	Vijayakumar D	56	75	65	60	50	66	0	0
59	411520104106	Vishnu B	50	65	66	75	56	60	0	0
60	411520104107	Vishva B	52	55	76	84	57	81	0	0
Present			57	59	58	58	59	55		
Absent			3	1	2	2	1	5		
Passed			55	57	56	57	56	53		
Failed			2	2	2	1	3	1		
Pass Percentage(with Total Strength)			91.7	95	93.3	95	93.3	88.3		
Pass Percentage (with Absentees Count)			96.5	96.6	96.6	98.3	94.9	96.4		
No. Of Students Passed in all the Subjects			41							
Overall Pass %			68.33							

[Handwritten Signature]
HOD/ISA

[Handwritten Signature]
Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

PERI INSTITUTE OF TECHNOLOGY						
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING						
CAT II-RESULT ANALYSIS						
CLASS / SEM: IV CSE A / VIII SEM			BATCH: 2019 - 2023			
S.NO	REG. NO.	NAME	CS8080 IRT	GE8076 PE	No. of Sub Absent	No. of Sub failed
1	411519104001	Akash G	92	51	0	0
2	411519104002	Althaf Khan G	92	75	0	0
3	411519104003	Ansul Jafera	94	65	0	0
4	411519104004	Arulmani.G	94	76	0	0
5	411519104005	Augustin Raja J	80	24	0	1
6	411519104006	Ayesha Munawar M	92	69	0	0
7	411519104007	Babyswetha.P	92	57	0	0
8	411519104010	Blessy Evangelin L	88	55	0	0
9	411519104011	Chitra. C	95	62	0	0
10	411519104012	Dayana K	77	61	0	0
11	411519104013	Deepak Kumar Bhagat	80	58	0	0
12	411519104014	Dhaneshkumar M	97	76	0	0
13	411519104016	Dinesh Kumar.N	84	50	0	0
14	411519104017	Divya. G	93	80	0	0
15	411519104018	Gabriel Nixson Jones.J	80	73	0	0
16	411519104019	Gokul.R	90	41	0	1
17	411519104020	Gopinath.V	94	56	0	0
18	411519104021	Gownori Jasmitha	83	59	0	0
19	411519104022	Hariharan B	50	78	0	0
20	411519104023	Hariharan.R	98	56	0	0
21	411519104024	Hariharan.S	A	0	1	2
22	411519104026	Harshini Rajkumar	88	69	0	0
23	411519104027	Hemavathy. K	81	64	0	0
24	411519104028	Jagatheesan V	16	65	0	1
25	411519104029	Jasmine Jenifer Mary X	94	68	0	0
26	411519104031	Kabil J	94	75	0	0
27	411519104032	Kalaivani K	89	78	0	0
28	411519104033	Pavan Kaligiri	94	69	0	0
29	411519104034	Karthick.A	76	A	1	1
30	411519104035	Keerthana.V	92	76	0	0
31	411519104036	Kishore C	92	62	0	0
32	411519104037	Kishore.U	95	50	0	0
33	411519104038	Kumaravel B M	93	50	0	0
34	411519104039	Lakshmi Priya.S	87	56	0	0

35	411519104041	Logeshwaran S	97	67	0	0
36	411519104042	Malavika.M	91	77	0	0
37	411519104043	Manasa A	95	56	0	0
38	411519104044	Mani Bharathi. B	17	77	0	1
39	411519104045	Manikandan.V	98	76	0	0
40	411519104046	Mareeswari.M	92	66	0	0
41	411519104047	Medepalli Yadidya	92	74	0	0
42	411519104048	Mohamed Hameed N	98	82	0	0
43	411519104049	Mukesh.S	95	50	0	0
44	411519104050	Muthukumar M	96	66	0	0
45	411519104053	Nandhini. J	95	64	0	0
46	411519104054	Naveen L	90	15	0	1
47	411519104060	Ben Joseph.P	A	A	2	2
48	411519104093	Swetha.C	92	77	0	0
49	411519104302	Balaji R	91	25	0	1

Present	47	47
Absent	2	2
Passed	45	42
Failed	2	5
Pass Percentage(with Total Strength)	91.8	85.7
Pass Percentage (with Absentees Count)	95.7	89.4
No. Of Students Passed in all the Subjects	40	
Overall Pass %	81.63	

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Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

HOD/CSE

PERI INSTITUTE OF TECHNOLOGY						
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING						
CAT II-RESULT ANALYSIS						
CLASS / SEM: IV CSE B / VIII SEM			BATCH: 2019 - 2023			
S.NO	REG. NO.	NAME	CS8080 IRT	GE8076 PE	No. of Sub Absent	No. of Sub failed
1	411519104040	Linga Sai Dhathri	92	79	0	0
2	411519104051	Nallapaneni Vamsi Kris	91	42	0	1
3	411519104052	Namburi Srinadh	87	57	0	0
4	411519104055	Naveenkumar.D	91	53	0	0
5	411519104056	Naveen Kumar .M	94	19	0	1
6	411519104057	Nedunseraladhan S	94	63	0	0
7	411519104058	Nishanthi A	92	67	0	0
8	411519104061	Parthiban D	92	72	0	0
9	411519104062	Pavithra.M	92	67	0	0
10	411519104063	Poli.Sunil	20	82	0	1
11	411519104064	Ponduri.Sri Sushma	91	64	0	0
12	411519104065	Pooja M	A	80	1	1
13	411519104066	Pradeep. T. R	93	74	0	0
14	411519104067	Prakash.R	89	50	0	0
15	411519104068	Praveen Kumar.S	94	69	0	0
16	411519104069	Praveen Kumar.G	95	56	0	0
17	411519104070	Priyadharshan V	76	52	0	0
18	411519104071	Priyadharshini.M	87	57	0	0
19	411519104072	Raghava R	93	52	0	0
20	411519104073	Rajamurali. M	94	55	0	0
21	411519104074	Revathi S	93	76	0	0
22	411519104075	Rishi Ashok A	92	67	0	0
23	411519104076	Rishya Sirungaran.G	82	55	0	0
24	411519104077	Roshni M	A	71	1	1
25	411519104078	Roy Reuban Raj.E	A	64	1	1
26	411519104079	Sai Charan.G	84	59	0	0
27	411519104080	Sanjay. D	A	53	1	1
28	411519104081	Santhosh Kumar. M	92	25	0	1
29	411519104082	Savitha.B	91	54	0	0
30	411519104083	Shanmugaraj A	A	36	1	2
31	411519104084	Silambarasan. K	92	50	0	0
32	411519104085	Sivanandhan.R	92	67	0	0

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
CAT 1-RESULT ANALYSIS
(MINIMUM PASS MARK - 50%)

CLASS	CLASS STRENGTH	NO. OF STUDENTS PASSED	PASS %
II CSE A	61	39	71.0%
II CSE B	67	48	71.6%
III CSE A	62	40	64.5%
III CSE B	60	41	68.3%
IV CSE A	49	40	81.6%
IV CSE B	46	36	76.0%
TOTAL	345	244	70.7%

[Signature]
HOD, CSE

[Signature]
Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021-2022 (EVEN)

INTERNAL EXAMINATION STUDENT FEEDBACK (CAT 1, CAT 2 & MODEL)

Course code & Name: CE 8020 MAINTENANCE AND REHABILITATION OF STRUCTURES **Exam Date:** 16.5.2022
Year / SEM: IV / VIII

Name of the Student: SURENDRA KUMAR . K

Question Paper Setting			
Description of Criteria	Yes	No	Remarks
Has the faculty framed the question paper in such a way that the given time is sufficient to complete?	✓		
Were the questions asked relevant to the syllabus covered?	✓		
Are the data given in all the questions sufficient?	✓		

Answer Script Valuation			
Description of Criteria	Yes	No	Remarks
Whether the valuation is done in accordance to the answer key?	✓		
Has the faculty suggested any comments/remarks for the improvement?	✓		

General issues			
Description of Criteria	Yes	No	Remarks
Describe any other additional issues faced during CAT exam	✓		<u>Provide water during exam</u>

K. Surendra Kumar
Student Signature

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021 - 2022 (EVEN)

INTERNAL EXAMINATION STUDENT FEEDBACK (CAT 1, CAT 2 & MODEL)

Course code & Name: CE 8020 MAINTANENCE, REPAIR AND REHABILITATION OF STRUCTURES **Exam Date:** 16.05.2022
Year / SEM: IV - VIII

Name of the Student: PRAVEEN . D .

Question Paper Setting			
Description of Criteria	Yes	No	Remarks
Has the faculty framed the question paper in such a way that the given time is sufficient to complete?		✓	All questions needed detail explanation so time not sufficient.
Were the questions asked relevant to the syllabus covered?	✓		
Are the data given in all the questions sufficient?	✓		

Answer Script Valuation			
Description of Criteria	Yes	No	Remarks
Whether the valuation is done in accordance to the answer key?	✓		
Has the faculty suggested any comments/remarks for the improvement?		✓	

General issues			
Description of Criteria	Yes	No	Remarks
Describe any other additional issues faced during CAT exam		✓	

Praaveen . D .
Student Signature

PERI INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING
ACADEMIC YEAR 2021 - 2022 (even)

INTERNAL EXAMINATION STUDENT FEEDBACK (CAT 1, CAT 2 & MODEL)

Course code & Name: CE8020 Maintenance, Repair and Exam Date: 16.5.22
 Year / SEM: IV - VIII Rehabilitation of structures.

Name of the Student: YOGESHWARAN . PT

Question Paper Setting			
Description of Criteria	Yes	No	Remarks
Has the faculty framed the question paper in such a way that the given time is sufficient to complete?	✓		
Were the questions asked relevant to the syllabus covered?	✓		
Are the data given in all the questions sufficient?	✓		

Answer Script Valuation			
Description of Criteria	Yes	No	Remarks
Whether the valuation is done in accordance to the answer key?	✓		
Has the faculty suggested any comments/remarks for the improvement?	✓		

General issues			
Description of Criteria	Yes	No	Remarks
Describe any other additional issues faced during CAT exam	✓		Kindly keep exam time in (FN)

PT. Yogeshwaran.
 Student Signature



OFFICE OF THE CONTROLLER OF EXAMINATIONS
ANNA UNIVERSITY
CHENNAI - 600 025

Email: coe@annauniv.edu
☎: 044-22357264, 044-22357265, ☎: 044-22301134

Lr. No. COE/LAB/AM23[FS]/Photocopy

Date: 28-7-2023

From,

Dr.P.Sakthivel
Controller of Examinations i/c,
Anna University,
Chennai - 25

To,

The Principal/Dean

A115

Sir,

Sub: Controller of Examinations – Anna University – April / May 2023 Examinations [Final Semester] - Supply of photocopy of answer scripts to the Students – Reg.

Photocopy of the answer script of the candidates who have applied for the same in connection with April / May 2023 Examinations [Final Semester] are enclosed as detailed below:

Reg. No. of the Candidate	Subjects for which Photocopy applied for
A115/19114020	IE 8693

I request that the same may please be issued to the candidates concerned immediately. A copy of the "Instructions to candidates who are receiving Photocopy of answer script" is also enclosed for reference and necessary action. The candidates may be asked to follow the instructions strictly.

Yours faithfully,

for CONTROLLER OF EXAMINATIONS

- Encl: 1. Photocopy of Answer script as above
2. Instructions to candidates.


Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

**Instructions to candidates who are receiving
Photocopy of Answer Script(s)**

1. Check whether the photocopy of the answer script supplied is yours including the subject for which you have applied for.
2. Please note that the valuation is done for 100 marks in the answer script and the result is announced after converting to the maximum weightage prescribed for the end-semester mark in respective regulations.
3. Check whether the totaling of marks is correct.
4. Check whether marks have been entered against the question no. (including sub- division) in the front page, for all answers written.
5. If you find any mistake/omission/error on any of the item in Sl. No.1 to 4 you are directed to report to your Principal/HOD and to make suitable entry in the menu "Examinations – Revaluation - Photocopy Problem" in <https://coe1.annauniv.edu> within 3 days of receipt of the photocopy of the answer script.
6. Answer scripts are valued by competent examiners who are teachers from other Engineering Colleges.
7. The valuation in the photocopy of the answer script can be verified by the subject expert by valuing the answer script and if the expert is convinced that the script deserves higher marks than awarded, he/she can recommend for applying revaluation in the format given below:

Part A		Part B					Total
Q.No.	Marks	Q.No.		i	ii	iii	
1		11	a				
2			b				
3		12	a				
4			b				
5		13	a				
6			b				
7		14	a				
8			b				
9		15	a				
10			b				
		16	a				
			b				
Total							
RECOMMENDED/NOT RECOMMENDED							GRAND TOTAL
Signature							
Examiner / Code							
College code /Name							

- The above recommendation by the subject expert may be retained by the Principal and the same be produced to the Controller of Examinations as and when it is required for further action.
8. The application for revaluation of answer scripts for the persons obtained photocopy will be intimated after the supply of photocopy.
 9. The marks awarded after revaluation which takes into account all aspects of valuation (including omission if any) is final. No representation will be entertained.
 10. Photocopy of Revalued Answer Scripts will not be supplied on any account.


Dr. R. PALSON KENNEDY, M.E., Ph.D.,
 PRINCIPAL
 PERI INSTITUTE OF TECHNOLOGY
 Mannivakkam, Chennai - 600 048.



OFFICE OF THE CONTROLLER OF EXAMINATIONS
ANNA UNIVERSITY
CHENNAI - 600 025

Email: coe@annauniv.edu

☎: 044-22357264, 044-22357265, ☎: 044-22301134

Lr. No. COE/LAB/ ND22 Photocopy

Date: 17.07.2023

From,

Dr. P. Sakthivel
Controller of Examinations i/c,
Anna University,
Chennai - 25

To,

The Principal/Dean
4115 PERI INSTITUTE OF
TECHNOLOGY

Sir / Madam,

Sub: Controller of Examinations – Anna University –Nov/Dec . 2022– Supply of photocopy of answer scripts to the Students – Reg.

Photocopy of the answer script of the candidates who have applied for the same in connection with Nov/Dec 2022 Examinations are enclosed as detailed below:

Sl. No.	Reg. No. of the Candidate	Subjects for which Photocopy applied for
1	411521401006	AP4008
2	411521405003	CP4391
3	411521405003	MP4094

I request that the same may please be issued to the candidates concerned immediately. A copy of the “Instructions to candidates who are receiving Photocopy of answer script” is also enclosed for reference and necessary action. The candidates may be asked to follow the instructions strictly.

Yours faithfully,

for CONTROLLER OF EXAMINATIONS

- Encl: 1. Photocopy of Answer script as above
2. Instructions to candidates.

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.



ANNA UNIVERSITY
CHENNAI - 600 025
Office of the Controller of Examinations

Off:	22301632, 22357244
	22357295, 22357296
	22357286, 22357287
Fax:	91-44-22301134/22350291
E-mail:	coe@annauniv.edu

Lr. No. 4115/COE/C24/2023

Date: 09.05.2023

From
The Controller of Examinations,
Anna University,
Chennai - 600 025.

To
The Principal
Petti Institute of Technology.

Sir,

Sub: Office of the Controller of Examinations - Anna University -
Revised Result - Sent - Reg.

The Revised Result in respect of the following candidate(s) in connection with the examinations held during Nov/Dec 2022 are enclosed and the same may be arranged to be issued to the candidates concerned immediately.

Sl. No.	Name	Reg. No.
1.	Harith. R	411520105310

The candidate who have failed (or) got lower grade as per the modified result may apply for revaluation, if required, by paying the fee prescribed.

The Acknowledgement should be signed by the Principal and forwarded to this office immediately.

for CONTROLLER OF EXAMINATIONS.

Encl.: As above.

915/23

h 915/23

[Signature]
Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PETTI INSTITUTE OF TECHNOLOGY
Mammurkain, Chennai - 600 048.



ANNA UNIVERSITY :: CHENNAI - 600 025
REVISED PROVISIONAL RESULTS OF UG/PG EXAMS
NOVEMBER / DECEMBER 2022 EXAMINATIONS

19-APR-23 12:14 PM

College :- 4115; PERI INSTITUTE OF TECHNOLOGY

Branch :- 105 ; B.E. Electrical and Electronics Engineering

Sl. No	Reg. No.	Student Name	Grade	Result
1	411520105310	Harish R	U /	RA

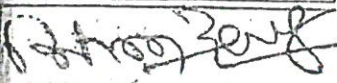

Basanth
02-05-2023
ADDITIONAL
CONTROLLER OF EXAMINATIONS

V. Senthil Kumar
05-05-2023
CONTROLLER OF EXAMINATIONS i/c

[Signature]
29/4/23

[Signature]
Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

Instructions given overleaf carefully before filling in the title page. (To be filled in by the Candidate)

College Code	4115	411520105310
Name	Peri Institute of Technology	
Branch	B.E.EEE	Semester
Code	OMD551	5
Title	Basis of Biomedical Instrumentation	Date & Session
		29/12/22 - FN
Paper Code	91063	No. of Pages used
		12
All particulars given are verified		Signature of the Hall Superintendent with date
 Chief Superintendent's Signature / Facsimile		 T. PRABU Name of the Hall Superintendent

WRITE THE REGISTER NUMBER, COLLEGE CODE AND THE NAME IN ANY OTHER PART OF THE ANSWER BOOK

Filled in by the candidate)

Date: 29/12/22 Session: FN 3730

Code / Title: OMD551 Basis of Biomedical Instrumentation

Question Paper Code: 91063 No. of Pages used: 12


Date: 29/12/22 Session: FN Question Paper Code: 91063

Subject Code / Title: OMD551 Basis of Biomedical Instrumentation

Instruction to the Candidate: Put a tick mark (✓) for the questions attended in the tick mark column against each question in V-1, V-2 & V-3

PART - A			PART - B & C						Total Marks	Grand Total (in words)	
Qn.	✓	Marks	Question No.	i	ii	iii	iv	v			
				✓	Marks	✓	Marks	✓	Marks		
		1	11							01	Zero
		1	b	✓	1						
		1	12							02	Three
		1	a								
		1	13							02	Three
		1	b	✓	2						
		1	14							1	03
	✓	0	a								
		1	15							1	03
		1	b								
		1	16							1	03
		1	a								
		1	b							1	03
		00								03	03

Declaration by the Examiner: Verified that all the questions attended by the student are valued and the total is found to be correct


 Dr. R. PALSON KENNEDY, M.E., Ph.D.,
 PRINCIPAL
 PERI INSTITUTE OF TECHNOLOGY
 Mannivakkam, Chennai - 600 048.

Dr. R. Palson Kennedy, M.E, Ph.D, FIE

06.07.2022

Lr.No. 833/PERIIT/COE

To

The Controller of Examinations,

Anna University,

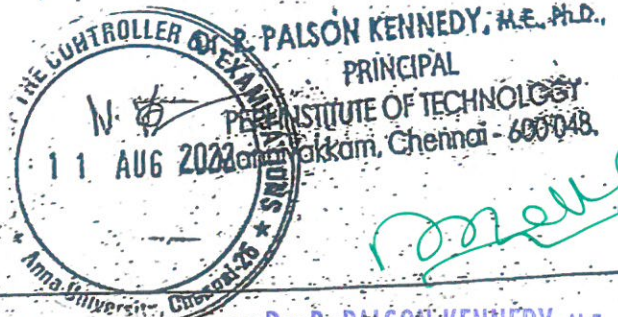
Chennai-25

Sir,

Sub: 4115-PERI Institute of Technology- Lab Exam Mark Issue - Reg.,

I would like to inform you that one of our college student Mr. Shyam Kumar (411519114310) belonging to Mechanical Engineering has attended the HS8381- Interpersonal Skills/Listening and Speaking Laboratory Examination, but we could not enter his ^{Antenna} marks in AUCOE Portal(As the subject is a Single Credit Paper). The details of the Examination conducted has been attached here for your reference. So we kindly request you to clear this issue as soon as possible.

Thanking You





ANNA UNIVERSITY
CHENNAI - 600 025
UNIVERSITY EXAMINATIONS - April / May Examination, 2022
EXAMINATION PRACTICAL ATTENDANCE SHEET

College Code/Name : 4115 - PERI INSTITUTE OF TECHNOLOGY
Branch Code/Name : 114 - B.E. Mechanical Engineering
Subject Code/Name : HS8381 - Interpersonal Skills/Listening and Speaking

Date of Examination : 27-6-22
Session : FN
Semester : 03

S.No	Register Number	Name of the Candidate	Answer Book No.	* Write AB for Absent	Signature of the Candidate
1	411519114310	SHYAM KUMAR	N/D 0522967		Shyam Kum

[Handwritten signature in green ink]

Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

TOTAL PRESENT : 01
TOTAL ABSENT : NIL

Certified that the following particulars have been Verified :
 1. The Register No. in the attendance sheet with that in the hall ticket.
 2. The identification of the candidate with the photo given in the hall ticket.
 3. The answer book number entered in the attendance sheet by the candidate with the Serial No. on the Answer Book.

* Hall Superintendent should mark 'AB' for Absent

[Handwritten signature: POOSA RATHI]
Signature of the Hall Superintendent with Name and Designation

[Handwritten signature]
Signature of the Chief Superintendent with Name and Designation



ANNA UNIVERSITY

Chennai - 25

N/D 0922967

PRACTICAL EXAMINATIONS

(To be filled in by the candidate)

Reg. No. of the candidate

9	1	5	9	1	7	3	1	0
---	---	---	---	---	---	---	---	---

Degree / Branch

B.E./MECHANICAL

College Code

9	1	5
---	---	---

Semester

IV

College Name

Peri Institute of Technology

Date & Session

27/06/22 / E.V.

Subject Code/Title

HS8381

English - SPEAKING, LISTENING & SPEAKING

ALLOCATION OF MARKS

- 1) Listening / Speaking - 18/20 marks
- 2) Short talk / Conversation - 38/40 marks
- 3) Group discussion - 37/40 marks

Total

93 NINE THREE

(Signature)
 Dr. R. PALSON KENNEDY, M.E., Ph.D.,
 PRINCIPAL
 PERI INSTITUTE OF TECHNOLOGY
 Mannivakkam, Chennai - 600 048.

4/3/22
 27/6/22
 4115362

Dr. R. Palson Kennedy
Principal

Lr No: PERIIT/4115/2023-24/910

13th July 2023

To
The Controller of Examinations
Anna University
Chennai-600 025

Sir,

Sub: 4115 - PERI Institute of Technology – Nov/Dec 2022 Examinations – Result not published due to DOTE Approval.

I would like you to inform you that **below mentioned students** has got his result as WH2 (which means waiting for DOTE Approval) in Nov/Dec 2022 Examinations. But the below mentioned student got approval from DOTE. So, we kindly request to publish the result. Herewith we have attached the DOTE approval copy.

S.No	Register Number	Student name	Department
1	411522104099	SCHOLASTICA B	Computer Science and Engineering

Enclosed :

1. Approval Copy

Thanking You



Dr. R. Palson Kennedy
Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

Dr. R. Palson Kennedy
Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL

Dr. R. Palson Kennedy, M.E, Ph.D, FIE

05.05.2023

Lr.No. 900/PERIIT/COE

To
 The Controller of Examinations
 Anna University
 Chennai-600 025

Sir,

Sub: 4115-PERI Institute of Technology – Nov/Dec 2022 Examinations – Result not published due to DOTE Approval.

I would like you to inform you that college student below mentioned students has got his result as WH2 (which means waiting for DOTE Approval) in Nov/Dec 2022 Examinations. But the below mentioned student got approval from DOTE. So, we kindly request to publish the result. Herewith we have attached the DOTE approval copy.

S.No	Register Number	Student name	Department
1	411522405005	Ragapriya M	M.E Computer Science and Engineering
2	411522405009	Vijaya Kumar R	M.E Computer Science and Engineering

Enclosed :

1. Approval Copy

Thanking you



[Handwritten Signature]

Dr. R. PALSON KENNEDY, M.E, Ph.D.
 PRINCIPAL

PERI

INSTITUTE OF TECHNOLOGY

Dr. R. Palson Kennedy
Principal

Lr No: PERIIT/4115/COE/2023-24/882

28th February 2023

To
The Controller of Examinations,
Anna University,
Chennai-25

Sir,

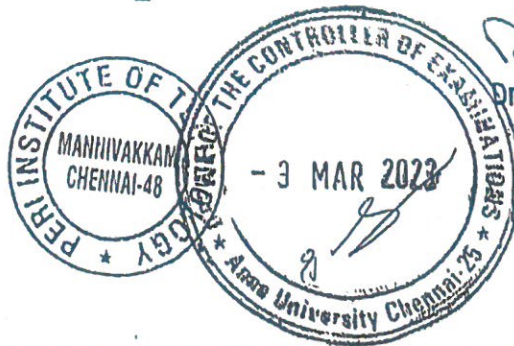
Sub: 4115-PERI Institute of Technology – Profile Correction - Reg.,

I would like to inform you that the following student profile corrections need to be done in Anna University Web portal.

1. SARAVANAN B (411521104316) – Studying CSE 2nd Year wrong photo uploaded.
2. KAVIYARASAN B (411521114310) – Studying MECHANICAL 2nd Year wrong photo uploaded.
3. KARPURAM PRATHAP (411521106042) – Studying ECE 2nd Year his name wrongly entered as PRATHAP K
4. DAFNEY RUBAVATHI S (411520415003) – Passed out Student of PG Power Electronics and Drives his Date of Birth was 05-August-1997 but in Web portal wrongly entered as 08-May-1997.

So kindly do the needful.

Thanking You



Dr. R. Palson Kennedy
DR. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL

PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

(Approved by AICTE, Affiliated to Anna University)
Permanent AICTE Id 1-5937291

PERI
EDUCATION

© PERI Knowledge Park, Mannivakkam, Chennai - 600 048, Tamilnadu.
Phone No : 044 6133 3400 | admin@peri.education | www.peri.education

05.05.2023

Dr. R. Palson Kennedy, M.E, Ph.D, FIE

Lr.No. 900/PERIIT/COE

To
The Controller of Examinations
Anna University
Chennai-600 025

Sir,

Sub: 4115-PERI Institute of Technology – Nov/Dec 2022 Examinations – Result not published due to DOTE Approval.

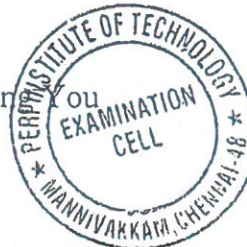
I would like you to inform you that college student below mentioned students has got his result as WH2 (which means waiting for DOTE Approval) in Nov/Dec 2022 Examinations. But the below mentioned student got approval from DOTE. So, we kindly request to publish the result. Herewith we have attached the DOTE approval copy.

S.No	Register Number	Student name	Department
1	411522405005	Ragapriya M	M.E Computer Science and Engineering
2	411522405009	Vijaya Kumar R	M.E Computer Science and Engineering

Enclosed :

1. Approval Copy

Thanking you



Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL

PERI INSTITUTE OF TECHNOLOGY
MANNIVAKKAM, CHENNAI - 600 048.

28/03/2023
27/03/2023

Dr. R. Palson Kennedy, M.E, Ph.D, FIE

Lr.No. 894/PERIIT/COE

To
The Controller of Examinations
Anna University
Chennai-600 025

Sir,

Sub: 4115-PERI Institute of Technology – Nov/Dec 2022 Examinations – Result not published due to DOTE Approval.

I would like you to inform you that college student below mentioned students has got his result as WH2 (which means waiting for DOTE Approval) in Nov/Dec 2022 Examinations. But the below mentioned student got approval from DOTE. So, we kindly request to publish the result. Herewith we have attached the DOTE approval copy.

S.No	Register Number	Student name	Department
1	411521104304	Christopher Daniel S	Computer Science and Engineering
2	411521104311	Pradeepraj M	Computer Science and Engineering
3	411521106302	Lokesh kumar R	Electronics and Communication Engineering
4	411521114306	Hemanathan A	Mechanical Engineering
5	411521114314	Mageshwaran T	Mechanical Engineering

Enclosed :

1. Approval Copy



Dr. R. Palson Kennedy
Dr. R. PALSON KENNEDY, M.E., Ph.D.,
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.

03.02.2023

Dr. R. Palson Kennedy, M.E, Ph.D, FIE
Lr.No. 879/PERIIT/COE

To
The Director,
The Controller of Examinations,
Anna University,
Chennai-25

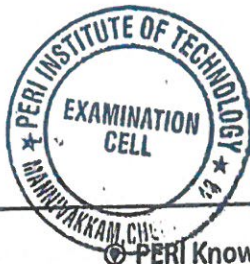
Sir,

Sub: 4115 - PERI Institute of Technology – Un Registration request for PG 1st year 1st semester Nov/Dec 2022 Examination - Reg.,

I would like to inform you that the following students has requested for TC and we kindly request you to Un Register following students for PG 1st year 1st semester Nov/Dec 2022 Examination.

1. D. Janani Priya 411522403002 – M.E Communication Systems
2. S. Logesh 411522403003 – M.E Communication Systems.
3. B. Monish 411522403005 - M.E Communication Systems .
4. G. Yakesh 411522403006 – M.E Communication Systems
5. K. Priyadarshini 411522405004 – M.E Computer Science Engineering
6. H. Sandhiya 411522405006 – M.E Computer Science Engineering
7. V. Sasikala 411522405007 – M.E Computer Science Engineering
8. S. Susithra 411522405008 – M.E Computer Science Engineering
9. J. Vijay 411522415004 – M.E Power Electronics and Drives

Thanking You



Yours Sincerely,

Dr. R. Palson Kennedy
Dr. R. PALSON KENNEDY, M.E., Ph.D
PRINCIPAL

Dr. R. Palson Kennedy
Principal

Lr No: PERIIT/4115/2023-24/929

21st August 2023

To
The Controller of Examinations,
Anna University,
Chennai-25

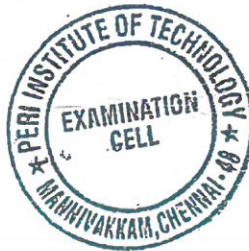
Sir,
Sub: 4115 - PERI Institute of Technology – Un Registration request for UG 1st year April/May 2023 Examination - Reg.,

I would like to inform you that the following students has requested for TC and we kindly request you to Un Register following students for UG 1st year April/May 2023 Examination.

S.No	Register Number	Student Name	Department
1	411522106030	Maha M	Electronics and Communication Engineering
2	411522114007	Pradeep Kumar D	Mechanical Engineerng

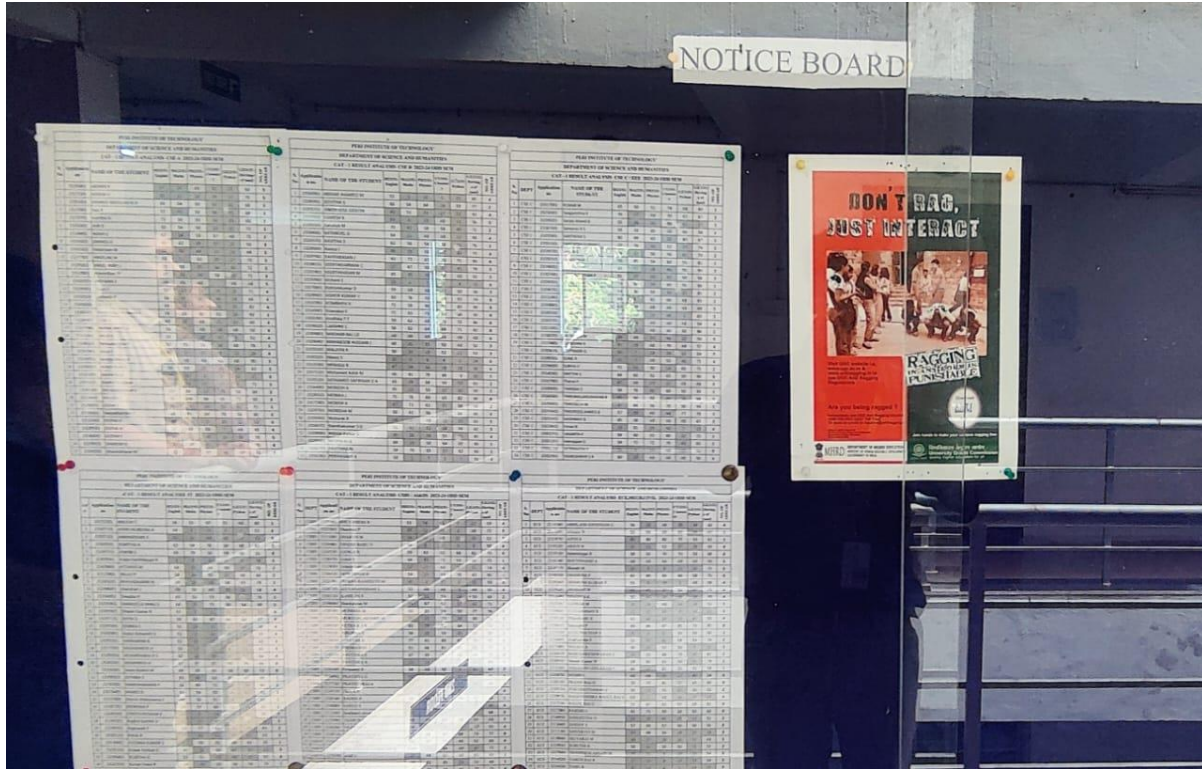
Thanking You

Dr. R. Palson Kennedy
Yours Sincerely,
Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL
PERI INSTITUTE OF TECHNOLOGY
Mannivakkam, Chennai - 600 048.



Dr. R. Palson Kennedy
Dr. R. PALSON KENNEDY, M.E., Ph.D.
PRINCIPAL

2.5.1 Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient



Internal assessment marks are shown on the note board.