

1.1.1 The Institution ensures effective curriculum delivery through a well-planned and documented process

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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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- 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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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.



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


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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.



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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.

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

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**



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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.



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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).



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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

- 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%).
- 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.
- 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).



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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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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.



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“**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.



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

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

- i. Successfully gained the required number of total credits as specified in the curriculum corresponding to the student's programme within the stipulated time.
- ii. Successfully completed the course requirements, appeared for the End - Semester examinations and passed all the subjects within the period as prescribed in clause 5.1 and 5.1.1.
- iii. Successfully passed any additional courses prescribed by the Director, Centre for Academic Courses whenever the student is readmitted under Regulations R-2021 from the earlier Regulations.
- iv. Successfully completed the NCC / NSS / NSO / YRC / Science Club / Literature Club / Fine Arts Club requirements.
- v. No disciplinary action pending against the student.
- vi. 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**:

- 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.



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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.



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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.



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- 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.



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ANNA UNIVERSITY, CHENNAI
NON- AUTONOMOUS AFFILIATED COLLEGES
REGULATIONS 2021
B. E. ELECTRONICS AND COMMUNICATION ENGINEERING
CHOICE BASED CREDIT SYSTEM
CURRICULUM AND SYLLABI FOR SEMESTERS I TO VIII
SEMESTER I

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	IP3151	Induction Programme	-	-	-	-	-	0
THEORY								
2.	HS3152	Professional English - I	HSMC	3	0	0	3	3
3.	MA3151	Matrices and Calculus	BSC	3	1	0	4	4
4.	PH3151	Engineering Physics	BSC	3	0	0	3	3
5.	CY3151	Engineering Chemistry	BSC	3	0	0	3	3
6.	GE3151	Problem Solving and Python Programming	ESC	3	0	0	3	3
7.	GE3152	தமிழர் மரபு /Heritage of Tamils	HSMC	1	0	0	1	1
PRACTICALS								
8.	GE3171	Problem Solving and Python Programming Laboratory	ESC	0	0	4	4	2
9.	BS3171	Physics and Chemistry Laboratory	BSC	0	0	4	4	2
10.	GE3172	English Laboratory §	EEC	0	0	2	2	1
TOTAL				16	1	10	27	22

§ Skill Based Course

SEMESTER II

S. NO.	COURSE CODE	COURSE TITLE	CATE-GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	HS3252	Professional English - II	HSMC	2	0	0	2	2
2.	MA3251	Statistics and Numerical Methods	BSC	3	1	0	4	4
3.	PH3254	Physics for Electronics Engineering	BSC	3	0	0	3	3
4.	BE3254	Electrical and Instrumentation Engineering	ESC	3	0	0	3	3
5.	GE3251	Engineering Graphics	ESC	2	0	4	6	4
6.	EC3251	Circuit Analysis	PCC	3	1	0	4	4
7.	GE3252	தமிழரும் தொழில்நுட்பமும் /Tamils and Technology	HSMC	1	0	0	1	1
8.		NCC Credit Course Level 1#	-	2	0	0	2	2*
PRACTICALS								
9.	GE3271	Engineering Practices Laboratory	ESC	0	0	4	4	2
10.	EC3271	Circuits Analysis Laboratory	PCC	0	0	2	2	1
11.	GE3272	Communication Laboratory / Foreign Language §	EEC	0	0	4	4	2
TOTAL				17	1	14	33	26

NCC Credit Course level 1 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.

§ Skill Based Course


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SEMESTER III

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	MA3355	Random Processes and Linear Algebra	BSC	3	1	0	4	4
2.	CS3353	C Programming and Data Structures	ESC	3	0	0	3	3
3.	EC3354	Signals and Systems	PCC	3	1	0	4	4
4.	EC3353	Electronic Devices and Circuits	PCC	3	0	0	3	3
5.	EC3351	Control Systems	PCC	3	0	0	3	3
6.	EC3352	Digital Systems Design	PCC	3	0	2	5	4
PRACTICALS								
7.	EC3361	Electronic Devices and Circuits Laboratory	PCC	0	0	3	3	1.5
8.	CS3362	C Programming and Data Structures Laboratory	PCC	0	0	3	3	1.5
9.	GE3361	Professional Development [§]	EEC	0	0	2	2	1
TOTAL				18	2	10	30	25

[§] Skill Based Course

SEMESTER IV

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	EC3452	Electromagnetic Fields	PCC	3	0	0	3	3
2.	EC3401	Networks and Security	PCC	3	0	2	5	4
3.	EC3451	Linear Integrated Circuits	PCC	3	0	0	3	3
4.	EC3492	Digital Signal Processing	PCC	3	0	2	5	4
5.	EC3491	Communication Systems	PCC	3	0	0	3	3
6.	GE3451	Environmental Sciences and Sustainability	BSC	2	0	0	2	2
7.		NCC Credit Course Level 2 [#]		3	0	0	3	3 [#]
PRACTICALS								
8.	EC3461	Communication Systems Laboratory	PCC	0	0	3	3	1.5
9.	EC3462	Linear Integrated Circuits Laboratory	PCC	0	0	3	3	1.5
TOTAL				17	0	10	27	22

[#] NCC Credit Course level 2 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA.


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SEMESTER V

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	EC3501	Wireless Communication	PCC	3	0	2	5	4
2.	EC3552	VLSI and Chip Design	PCC	3	0	0	3	3
3.	EC3551	Transmission lines and RF Systems	PCC	3	0	0	3	3
4.		Professional Elective I	PEC	-	-	-	-	3
5.		Professional Elective II	PEC	-	-	-	-	3
6.		Professional Elective III	PEC	-	-	-	-	3
7.		Mandatory Course-I ^{&}	MC	3	0	0	3	0
PRACTICALS								
8.	EC3561	VLSI Laboratory	PCC	0	0	4	4	2
TOTAL				-	-	-	-	21

[&] Mandatory Course-I is a Non-credit Course (Student shall select one course from the list given under Mandatory Course-I)

SEMESTER VI

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	ET3491	Embedded Systems and IOT Design	PCC	3	0	2	5	4
2.	CS3491	Artificial Intelligence and Machine Learning	ESC	3	0	2	5	4
3.		Open Elective- I*	OEC	3	0	0	3	3
4.		Professional Elective V	PEC	-	-	-	-	3
5.		Professional Elective VI	PEC	-	-	-	-	3
6.		Professional Elective VII	PEC	-	-	-	-	3
7.		Mandatory Course-II ^{&}	MC	3	0	0	3	0
8.		NCC Credit Course Level 3 [#]		3	0	0	3	3 [#]
TOTAL				-	-	-	-	20

*Open Elective - I Shall be chosen from the list of open electives offered by other Programmes

[&] Mandatory Course-II is a Non-credit Course (Student shall select one course from the list given under Mandatory Course-II)

[#] NCC Credit Course level 3 is offered for NCC students only. The grades earned by the students will be recorded in the Mark Sheet, however the same shall not be considered for the computation of CGPA


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SEMESTER VII / VIII*

S. NO	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
THEORY								
1.	GE3791	Human Values and Ethics	HSMC	2	0	0	2	2
2.		Elective - Management [#]	HSMC	3	0	0	3	3
3.		Open Elective – II**	OEC	3	0	0	3	3
4.		Open Elective – III**	OEC	3	0	0	3	3
5.		Open Elective – IV**	OEC	3	0	0	3	3
PRACTICALS								
6.	EC3711	Summer internship	EEC	0	0	0	0	2
TOTAL				14	0	0	14	16

*If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

** Open Elective II - IV (Shall be chosen from the list of open electives offered by other Programmes).

Elective - Management shall be chosen from the Elective Management courses.

SEMESTER VIII / VII*

S. NO	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
PRACTICALS								
1.	EC3811	Project Work / Internship	EEC	0	0	20	20	10
TOTAL				0	0	20	20	10

*If students undergo internship in Semester VII, then the courses offered during semester VII will be offered during semester VIII.

TOTAL CREDITS : 162

ELECTIVE – MANAGEMENT COURSES

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	GE3751	Principles of Management	HSMC	3	0	0	3	3
2.	GE3752	Total Quality Management	HSMC	3	0	0	3	3
3.	GE3753	Engineering Economics and Financial Accounting	HSMC	3	0	0	3	3
4.	GE3754	Human Resource Management	HSMC	3	0	0	3	3
5.	GE3755	Knowledge Management	HSMC	3	0	0	3	3
6.	GE3792	Industrial Management	HSMC	3	0	0	3	3



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MANDATORY COURSES I

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MX3081	Introduction to Women and Gender Studies	MC	3	0	0	3	0
2.	MX3082	Elements of Literature	MC	3	0	0	3	0
3.	MX3083	Film Appreciation	MC	3	0	0	3	0
4.	MX3084	Disaster Risk Reduction and Management	MC	3	0	0	3	0

MANDATORY COURSES II

S. NO.	COURSE CODE	COURSE TITLE	CATE GORY	PERIODS PER WEEK			TOTAL CONTACT PERIODS	CREDITS
				L	T	P		
1.	MX3085	Well Being with Traditional Practices - Yoga, Ayurveda and Siddha	MC	3	0	0	3	0
2.	MX3086	History of Science and Technology in India	MC	3	0	0	3	0
3.	MX3087	Political and Economic Thought for a Humane Society	MC	3	0	0	3	0
4.	MX3088	State, Nation Building and Politics in India	MC	3	0	0	3	0
5.	MX3089	Industrial Safety	MC	3	0	0	3	0



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Vertical I Semiconductor Chip Design and Testing	Vertical II Signal Processing	Vertical III RF Technologies	Vertical IV Bio Medical Technologies	Vertical V Underwater Technologies	Vertical VI Sensor Technologies and IoT	Vertical VII Space Technologies	Vertical VIII High Speed Communications
Wide Bandgap Devices	Advanced Digital Signal Processing	RF Transceivers	Wearable Devices	Underwater Instrumentation System	IoT Processors	Radar Technologies	Optical Communication & Networks
Validation and Testing Technology	Image Processing	Signal Integrity	Human Assist Devices	Underwater Imaging Systems and Image Processing	IoT Based System Design	Avionics Systems	Wireless Broad Band Networks
Low Power IC Design	Speech Processing	Antenna Design	Therapeutic Equipment	Underwater Communication	Wireless Sensor Network Design	Positioning and Navigation Systems	4G/5G Communication Networks
VLSI Testing and Design For Testability	Software Defined Radio	MICs and RF System Design	Medical Imaging Systems	Ocean Observation Systems	Industrial IoT and Industry 4.0	Satellite Communication	Software Defined Networks
Mixed Signal IC Design Testing	DSP Architecture and Programming	EMI/EMC Pre Compliance Testing	Brain Computer Interface and Applications	Underwater Navigation Systems	MEMS Design	Remote Sensing	Massive MIMO Networks
Analog IC Design	Computer Vision	RF ID System Design & Testing	Body Area Networks	Ocean Acoustics	Fundamentals of Nanoelectronics	Rocketry and Space Mechanics	Advanced Wireless Communication Techniques

PROFESSIONAL ELECTIVE COURSES: VERTICALS

Registration of Professional Elective Courses from Verticals:

Professional Elective Courses will be registered in Semesters V and VI. These courses are listed in groups called verticals that represent a particular area of specialisation / diversified group. Students are permitted to choose all the Professional Electives from a particular vertical or from different verticals. Further, only one Professional Elective course shall be chosen in a semester horizontally (row-wise). However, two courses are permitted from the same row, provided one course is enrolled in Semester V and another in semester VI.

The registration of courses for B.E./B.Tech (Honours) or Minor degree shall be done from Semester V to VIII. The procedure for registration of courses explained above shall be followed for the courses of B.E./B.Tech (Honours) or Minor degree also. For more details on B.E./B.Tech (Honours) or Minor degree refer to the Regulations 2021, Clause 4.10 (Amendments).



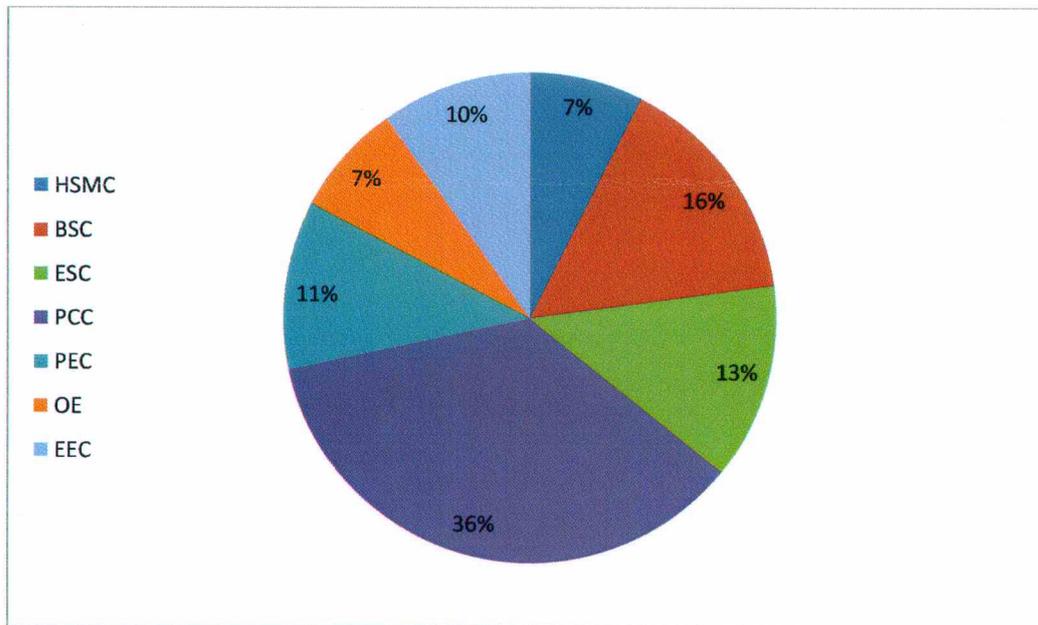
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Department of Electronics and Communication Engineering – R2021

S.No	Subject Area	Credits per Semester								Total Credits
		I	II	III	IV	V	VI	VII/ VIII	VIII/ VII	
1	HSMC	4	3					5		12
2	BSC	12	7	4	2					25
3	ESC	5	9	3			4			21
4	PCC		5	17	20	12	4			58
5	PEC					9	9			18
6	OEC						3	9		12
7	EEC	1	2	1				2	10	16
8	Non-Credit (Mandatory)					√	√			
Total		22	26	25	22	21	20	16	10	162



Subject Area	HSMC	BSC	ESC	PCC	PEC	OE	EEC
Credits	12	25	21	58	18	12	16

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Siruseri, Chennai - 603 103.

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES**August 2022 – December 2022 (ODD SEMESTER – Except Semester III)**UG Programmes

Sl. No	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1.	B.E. / B.Tech.(Full-Time)	V, VII	10.08.2022	19.11.2022	06.12.2022**	21.11.2022	18.01.2023	01.12.2022	08.12.2022
2.	B.E. / B.Tech (Part-Time)	V, VII	10.08.2022	19.11.2022	-	21.11.2022	-	01.12.2022	-
3.	B.Arch. (Full-Time)	V, VII, IX							

RE - OPENING DAY FOR THE NEXT SEMESTER: 30.01.2023 (Monday)**NOTE:**

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.**

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	20.08.2022	Monday
2.	03.09.2022	Friday
3.	17.09.2022	Wednesday
4.	15.10.2022	Tuesday
5.	29.10.2022	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
6.	05.11.2022	Monday
7.	12.11.2022	Tuesday
8.	19.11.2022	Wednesday
9.	26.11.2022**	Thursday
10.	03.12.2022**	Friday



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**DIRECTOR
ACADEMIC COURSES**

Date: 02.11.2022

REVISED - I

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

August 2022 – December 2022 (Semester III)

UG (FT/PT) & PG (FT/PT) Degree Programmes



Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised	Existing	Revised
1.	B.E. / B.Tech. (Full-Time)	III	22.08.2022	08.12.2022	27.12.2022	10.12.2022	18.01.2023	21.12.2022	29.12.2022
2.	B.Arch. (Full-Time)	III							
3.	B.E. / B.Tech (Part-Time)	III	22.08.2022	08.12.2022	-	10.12.2022	18.01.2023	21.12.2022	29.12.2022
4.	M.B.A. (5 Yrs-Integrated)	III							
5.	M.B.A. (Full-Time & Part-Time)	III	01.09.2022	19.12.2022	-	21.12.2022	18.01.2023	02.01.2023	29.12.2022

RE - OPENING DAY FOR THE NEXT SEMESTER: 01.02.2023 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

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DIRECTOR
ACADEMIC COURSES

Date: 02.11.2022



CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

November 2022 – April 2023 (SEMESTER I)

UG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Induction Programme	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (Full Time)	I	14.11.2022	28.11.2022	23.03.2023	25.03.2023	05.04.2023
2.	B.Arch.(Full Time)	I	14.11.2022	28.11.2022	15.03.2023	25.03.2023	05.04.2023
3.	B.E. / B.Tech. (Part Time)	I	-	14.11.2022	01.03.2023	25.03.2023	05.04.2023

RE-OPENING DAY FOR THE NEXT SEMESTER: 15.05.2023 (Monday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

**DIRECTOR
ACADEMIC COURSES**

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No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Siruseri, Chennai - 603 103.

CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY: : CHENNAI - 600 025



REVISED

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES
February 2023 - June 2023 (Even Semester - Except Semester II)
UG / PG (FT/PT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day		Commencement of Practical Examinations		Commencement of End Semester Examinations	
				Existing	Revised	Existing	Revised*	Existing	Revised*
1.	B.E. / B.Tech. (Full-Time)	IV, VI	06.02.2023	12.05.2023	24.05.2023***	15.05.2023	26.05.2023	26.05.2023	05.06.2023
2.	B.E. / B.Tech. (Full-Time)	VIII							
3.	B.Arch. (Full-Time)	IV, VI, VIII, X							
4.	B.E. / B.Tech. (Part-Time)	IV, VI	06.02.2023	12.05.2023**	-	15.05.2023	-	26.05.2023	-
5.	M.B.A. (Full-Time & Part-Time)	IV							
6.	M.B.A. (5 Yrs-Integrated)	IV, VI, VIII, X							

RE - OPENING DAY FOR THE NEXT SEMESTER: 07.08.2023 (Monday)

* To provide additional classes for Skill Based Courses.

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
- If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	11.02.2023	Monday
2.	18.02.2023	Tuesday
3.	25.02.2023	Wednesday
4.	04.03.2023	Thursday
5.	11.03.2023	Friday
6.	18.03.2023	Monday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	25.03.2023	Tuesday
8.	01.04.2023	Wednesday
9.	29.04.2023	Thursday
10.	06.05.2023	Friday
11.	13.05.2023	Monday***
12.	20.05.2023	Tuesday***

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DIRECTOR
ACADEMIC COURSES



Date: 04.05.2023

CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

May 2023 – August 2023 (Even Semester)

UG (FT/PT) & PG (FT) Degree Programmes

Sl. No.	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	B.E. / B.Tech. (Full-Time)	II	10.05.2023	07.08.2023**	09.08.2023	21.08.2023
2.	B.Arch. (Full-Time)	II				
3.	B.E. / B.Tech (Part-Time)	II				
4.	M.E. / M. Tech. / M. Arch. (FT)	IV				

RE - OPENING DAY FOR THE NEXT SEMESTER: 11.09.2023 (Monday)

NOTE:

- The Theory and Practical Examination schedules will be published in due course (Practical Examinations will be conducted before the theory examinations).
- If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	13.05.2023	Friday
2.	20.05.2023	Monday
3.	27.05.2023	Tuesday
4.	03.06.2023	Wednesday
5.	10.06.2023	Thursday
6.	17.06.2023	Friday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
7.	24.06.2023	Monday
8.	01.07.2023	Tuesday
9.	08.07.2023	Wednesday
10.	15.07.2023	Thursday
11.	22.07.2023	Friday
12.	05.08.2023	Monday

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04/05/2023

DIRECTOR
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PRINCIPAL

MOHAMED SATHAK A. J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Chennai - 600 093

Date: 06.10.2022



CENTRE FOR ACADEMIC COURSES
ANNA UNIVERSITY: : CHENNAI - 600 025
ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES
October 2022 – February 2023 (Odd Semester – Semester I)

PG (FT) Degree Programmes

Sl. No	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	M.E. / M. Tech. / M. Arch.(FT)	I	10.10.2022	25.01.2023	27.01.2023	06.02.2023

RE-OPENING DAY FOR THE NEXT SEMESTER: 08.03.2023 (Wednesday)

NOTE:

1. The Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.

Rachin A/c
DIRECTOR i/c
ACADEMIC COURSES

PRINCIPAL

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Siruseri, Chennai - 603 103.

Date: 02.11.2022



CENTRE FOR ACADEMIC COURSES

ANNA UNIVERSITY: : CHENNAI – 600 025

ACADEMIC SCHEDULE FOR NON-AUTONOMOUS AFFILIATED COLLEGES

December 2022 – April 2023 (Odd Semester – Semester III)

PG (FT) Degree Programmes

Sl. No	Programme	Semester	Commencement of Classes	Last working day	Commencement of Practical Examinations	Commencement of End Semester Examinations
1.	M.E. / M. Tech. / M. Arch.(FT)	III	12.12.2022	23.03.2023	25.03.2023	05.04.2023

RE-OPENING DAY FOR THE NEXT SEMESTER: 15.05.2023 (Monday)

** In order to ensure minimum no. of working days, the following Saturdays are declared as working days.

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
1.	24.12.2022	Monday
2.	07.01.2023	Tuesday
3.	21.01.2023	Wednesday

Sl. No.	Working Days (Saturdays)	Time Table of the Week Day to be Followed
4.	04.02.2023	Wednesday
5.	18.02.2023	Friday

1. Theory and Practical Examination schedules will be published in due course. (Practical Examinations will be conducted before the theory examinations).
2. If necessary, loss of classes due to various curricular / co-curricular activities of the department / college may be compensated by conducting classes on Saturdays.




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Academic Calendar for(3) Odd Semester : August 2022 - December 2022

Aug-2022			Sep-2022			Oct-2022			Nov-2022			Dec-2022		
Date & Day	Particulars		Date & Day	Particulars		Date & Day	Particulars		Date & Day	Particulars		Date & Day	Particulars	
1	Mon		1 8	Thu		1 33	Sat	LAB-4	1 54	Tue		1 78	Thu	EPC
2	Tue		2 9	Fri		2	Sun	Holiday	2 55	Wed		2 79	Fri	EPC
3	Wed		3 10	Sat	LAB-1	3	Mon	Holiday	3 56	Thu	Unit 4 Completion	3 80	Sat	EPC
4	Thu		4	Sun	Holiday	4	Tue	Ayuthapooja	4 57	Fri		4	Sun	Holiday
5	Fri		5 11	Mon	Unit 1 Completion	5	Wed	Vijayadhasami	5	Sat	Holiday	5 81	Mon	EPC
6	Sat		6 12	Tue		6 34	Thu	IAT-II	6	Sun	Holiday	6 82	Tue	EPC
7	Sun		7 13	Wed		7 35	Fri	IAT-II	7 58	Mon	IAT-IV	7 83	Wed	EPC
8	Mon		8 14	Thu		8 36	Sat	IAT-II	8 59	Tue	IAT-IV	8 84	Thu	EPC
9	Tue		9 15	Fri		9	Sun	Holiday	9 60	Wed	IAT-IV	9	Fri	EPC
10	Wed		10 16	Sat	LAB-2	10 37	Mon		10 61	Thu		10	Sat	University Practical Exam
11	Thu		11	Sun	Holiday	11 38	Tue		11 62	Fri		11	Sun	Holiday
12	Fri		12 17	Mon		12 39	Wed		12 63	Sat	LAB-8	12	Mon	
13	Sat		13 18	Tue		13 40	Thu	Unit 3 Completion	13	Sun	Holiday	13	Tue	
14	Sun	Holiday	14 19	Wed	IAT-I	14 41	Fri		14 64	Mon		14	Wed	
15	Mon	Independence day	15 20	Thu	IAT-I	15 42	Sat	LAB-5	15 65	Tue		15	Thu	
16	Tue		16 21	Fri	IAT-I	16	Sun	Holiday	16 66	Wed		16	Fri	
17	Wed		17 22	Sat	LAB-3	17 43	Mon		17 67	Thu		17	Sat	
18	Thu		18	Sun	Holiday	18 44	Tue		18 68	Fri	Unit 5 Completion	18	Sun	Holiday
19	Fri		19 23	Mon		19 45	Wed		19 69	Sat	LAB-9	19	Mon	
20	Sat		20 24	Tue		20 46	Thu		20	Sun	Holiday	20	Tue	
21	Sun	Holiday	21 25	Wed		21 47	Fri		21 70	Mon	EPC	21	Wed	University Exam starts
22	1 Mon	College Reopen	22 26	Thu	Unit 2 Completion	22 48	Sat	LAB-6	22 71	Tue	EPC	22	Thu	
23	2 Tue		23 27	Fri		23	Sun	Holiday	23 72	Wed	EPC	23	Fri	
24	3 Wed		24	Sat	Holiday	24	Mon	Deepavali	24 73	Thu	EPC	24	Sat	
25	4 Thu		25	Sun	Holiday	25	Tue	Holiday	25 74	Fri	EPC	25	Sun	Holiday
26	5 Fri		26 28	Mon		26 49	Wed	IAT-III	26	Sat	LAB 10	26	Mon	
27	Sat	Holiday	27 29	Tue		27 50	Thu	IAT-III	27	Sun	Holiday	27	Tue	
28	Sun	Holiday	28 30	Wed		28 51	Fri	IAT-III	28 75	Mon	EPC	28	Wed	
29	6 Mon		29 31	Thu		29 52	Sat	LAB-7	29 76	Tue	EPC	29	Thu	
30	7 Tue		30 32	Fri		30	Sun	Holiday	30 77	Wed	EPC	30	Fri	
31	Wed	Vinayagar chaturthi				31 53	Mon							
Working Days: 07			Working Days: 25			Working Days: 21			Working Days: 24			Working Days: 07		

[Signature]
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 No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - II PHASE
 Siruseri, Chennai - 603 103
HEAD / ACADEMICS



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



Academic Calendar for(5 & 7) Odd Semester : August 2022 - December 2022														
Aug-2022			Sep-2022				Oct-2022				Nov-2022			Particulars
Date & Day		Particulars	Date & Day		Particulars	Date & Day		Particulars	Date & Day		Particulars	Date & Day		Particulars
1		Mon		1	17	Thu		1	42	Sat	LAB-6	1	63	Tue
2		Tue		2	18	Fri		2		Sun	Holiday	2	64	Wed
3		Wed		3	19	Sat	LAB-3	3		Mon	Holiday	3	65	Thu
4		Thu		4		Sun	Holiday	4		Tue	Ayuthapooja	4	66	Fri
5		Fri		5	20	Mon	IETE -Circuit Debugging	5		Wed	Vijayadhasami	5		Sat
6		Sat		6	21	Tue		6	43	Thu	IAT-III	6		Sun
7		Sun		7	22	Wed		7	44	Fri	IAT-III	7	67	Mon
8		Mon		8	23	Thu		8	45	Sat	IAT-III	8	68	Tue
9		Tue		9	24	Fri		9		Sun	Holiday	9	69	Wed
10	1	Wed	College Reopen	10	25	Sat	LAB-4	10	46	Mon		10	70	Thu
11	2	Thu		11		Sun	Holiday	11	47	Tue		11	71	Fri
12	3	Fri		12	26	Mon	IETE - Quiz	12	48	Wed		12	72	Sat
13	4	Sat	LAB-1	13	27	Tue	Unit-II Completion	13	49	Thu	Code & Debug -CSE	13		Sun
14		Sun	Holiday	14	28	Wed	IAT-II	14	50	Fri		14	73	Mon
15		Mon	Independence day	15	29	Thu	IAT-II	15	51	Sat	LAB-7	15	74	Tue
16	5	Tue		16	30	Fri	IAT-II	16		Sun	Holiday	16	75	Wed
17	6	Wed	Seminar - IT	17	31	Sat	LAB-5 / Project Expo	17	52	Mon		17	76	Thu
18	7	Thu		18		Sun	Holiday	18	53	Tue		18	77	Fri
19	8	Fri		19	32	Mon		19	54	Wed	Debugging - IT	19	78	Sat
20	9	Sat	LAB-2	20	33	Tue		20	55	Thu		20		Sun
21		Sun	Holiday	21	34	Wed	Workshop - Mech	21	56	Fri	Unit-IV Completion	21		Mon
22	10	Mon		22	35	Thu		22	57	Sat	LAB-8	22		Tue
23	11	Tue		23	36	Fri		23		Sun	Holiday	23		Wed
24	12	Wed	Unit-I Completion	24		Sat	Holiday	24		Mon	Deepavali	24		Thu
25	13	Thu	IAT-I	25		Sun	Holiday	25		Tue	Holiday	25		Fri
26	14	Fri	IAT-I / IETE Inauguration	26	37	Mon		26	58	Wed	IAT-IV	26		Sat
27		Sat	Holiday	27	38	Tue		27	59	Thu	IAT-IV	27		Sun
28		Sun	Holiday	28	39	Wed		28	60	Fri	IAT-IV / Symposium	28		Mon
29	15	Mon	IAT-I	29	40	Thu	Paper presentation	29	61	Sat	LAB-9	29		Tue
30	16	Tue		30	41	Fri	Unit-III Completion	30		Sun	Holiday	30		Wed
31		Wed	Vinayagar chaturthi					31	62	Mon		1		Thu
Total No.of Working Days: 16			Total No.of Working Days: 25				Total No.of Working Days: 21				Total No.of Working Days: 16			

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PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
 No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
 Siruseri, Chennai - 603 103.

Mohamed Sathak AJ College of Engineering, Chennai-603 103

Academic Calendar for II Semester : April 2022 to June 2022

Apr-22				May-22				Jun-22				Jul-22			
Date & Day		Particulars		Date & Day		Particulars		Date & Day		Particulars		Date & Day		Particulars	
1	Fri			1	Sun			1	Wed	44		1	Fri	70	EPC
2	Sat			2	Mon			2	Thu	45		2	Sat	71	EPC
3	Sun			3	Tue			3	Fri	46		3	Sun		Holiday
4	Mon	1	College Reopen	4	Wed			4	Sat	47		4	Mon	72	EPC
5	Tue	2		5	Thu	22		5	Sun		Holiday	5	Tue	73	EPC
6	Wed	3		6	Fri	23		6	Mon	48		6	Wed	74	EPC
7	Thu	4		7	Sat	24		7	Tue	49		7	Thu	75	EPC
8	Fri	5		8	Sun		Holiday	8	Wed	50		8	Fri	76	EPC
9	Sat	6		9	Mon	25	Unit II Completion	9	Thu	51	Unit IV Completion	9	Sat	77	EPC
10	Sun		Holiday	10	Tue	26	IAT-2	10	Fri	52	IAT-4	10	Sun		Holiday
11	Mon	7		11	Wed	27	IAT-2	11	Sat	53	IAT-4	11	Mon		University Practical exam
12	Tue	8		12	Thu	28	IAT2	12	Sun		Holiday	12	Tue		
13	Wed	9	Class committee meeting I	13	Fri	29		13	Mon	54	IAT-4	13	Wed		
14	Thu		Tamil New Year	14	Sat	30		14	Tue	55		14	Thu		
15	Fri		Good Friday	15	Sun		Holiday	15	Wed	56		15	Fri		
16	Sat			16	Mon	31		16	Thu	57		16	Sat		
17	Sun		Holiday	17	Tue	32		17	Fri	58	CCM III	17	Sun		Holiday
18	Mon	10		18	Wed	33		18	Sat	59		18	Mon		University Theory exam
19	Tue	11		19	Thu	34		19	Sun		Holiday	19	Tue		
20	Wed	12	Unit I Completion	20	Fri	35		20	Mon	60		20	Wed		
21	Thu	13	IAT-1	21	Sat		Cultural & Annual day	21	Tue	61		21	Thu		
22	Fri	14	IAT-1	22	Sun		Holiday	22	Wed	62		22	Fri		
23	Sat	15	IAT-1	23	Mon	36		23	Thu	63		23	Sat		
24	Sun		Holiday	24	Tue	37		24	Fri	64		24	Sun		
25	Mon	16		25	Wed	38	CCM II	25	Sat	65	Unit V Completion	25	Mon		
26	Tue	17		26	Thu	39	Unit III Completion	26	Sun		Holiday	26	Tue		
27	Wed	18		27	Fri	40	IAT-3	27	Mon	66	EPC	27	Wed		
28	Thu	19		28	Sat	41	IAT-3	28	Tue	67	EPC	28	Thu		
29	Fri	20		29	Sun		Holiday	29	Wed	68	EPC	29	Fri		
30	Sat	21	Parents meeting	30	Mon	42	IAT-3	30	Thu	69	EPC	30	Sat		
				31	Tue	43						31			
Total no.of working days:21				Total no.of working days: 22				Total no.of working days:26				Total no.of working days:08			

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MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

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ACADEMIC CALENDER 2022 - 2023 - EVEN SEMESTER (4th & 6th Semester)

Feb-23			Mar-23			Apr-23			May-23						
Date & Day	Particulars		Date & Day	Particulars		Date & Day	Particulars		Date & Day	Particulars					
	Sun		1	22	Wed		1	Sat		1	Mon	May Day			
	Mon		2	23	Thu		2	Sun		2	66	Tue			
	Tue		3	24	Fri		3	48	Mon	3	67	Wed	Unit V Completion		
1	Wed		4	25	Sat	Unit II Completion	4	49	Tue	4	68	Thu	IAT V		
2	1	Thu	College Reopens	5	Sun		5	50	Wed	5	69	Fri	IAT V		
3	2	Fri		6	26	Mon		6	51	Thu	6	70	Sat	IAT V	
4	3	Sat		7	27	Tue		7	Fri	Good Friday	7	Sun			
5	Sun		8	28	Wed	Womens Day	8	Sat		8	71	Mon	Model Exam		
6	4	Mon		9	29	Thu	IAT II	9	Sun		9	72	Tue	Model Exam	
7	5	Tue		10	30	Fri		10	52	Mon	CCM III	10	73	Wed	Model Exam
8	6	Wed		11	31	Sat	IAT II	11	53	Tue	CCM III	11	74	Thu	Model Exam
9	7	Thu		12	Sun			12	54	Wed	Unit IV Completion	12	75	Fri	Model Exam
10	8	Fri		13	32	Mon	IAT II	13	55	Thu	IAT IV	13	76	Sat	Model Exam
11	Sat	Alumni Meet	14	33	Tue		14	Fri	Tamil New Year	14	Sun				
12	Sun		15	34	Wed		15	Sat		15	Mon	AU Practical Exam			
13	9	Mon		16	35	Thu		16	Sun		16	Tue			
14	10	Tue	CCM I	17	36	Fri		17	56	Mon	IAT IV	17	Wed		
15	11	Wed	CCM I / Unit I Completion	18	Sat	Sports Day & Annual Day	18	57	Tue		18	Thu			
16	12	Thu	IAT I	19	Sun		19	58	Wed	IAT IV	19	Fri			
17	13	Fri		20	37	Mon	CCM II	20	59	Thu		20	Sat		
18	14	Sat	IAT I	21	38	Tue	CCM II	21	Fri	Ramzan	21	Sun			
19	Sun			22	39	Wed		22	Sat	Ramzan	22	Mon			
20	15	Mon	IAT I	23	40	Thu	Unit III Completion	23	Sun	Ramzan	23	Tue			
21	16	Tue		24	41	Fri		24	60	Mon		24	Wed		
22	17	Wed		25	42	Sat	IAT III	25	61	Tue		25	Thu		
23	18	Thu		26	Sun			26	62	Wed		26	Fri	AU Theory Examinations	
24	19	Fri		27	43	Mon	IAT III	27	63	Thu		27	Sat		
25	Sat			28	44	Tue		28	64	Fri		28	Sun		
26	Sun			29	45	Wed	IAT III	29	65	Sat		29	Mon		
27	20	Mon		30	46	Thu		30	Sun			30	Tue		
28	21	Tue	National Science Day	31	47	Fri						31	Wed		
Total No. of Working Days: 21			Total No. of Working Days: 26			Total No. of Working Days: 18			Total No. of Working Days: 11						

APR 02/02/2023

HEAD, ACADEMICS

PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - T. T. Park,
Sivaseeri, Chennai - 603103. 02/02/23
PRINCIPAL



Ref: MSAJCE/CIVIL/05/ODD/2022-2023

Date: 19th August 2022

DEPARTMENT OF CIVIL ENGINEERING

CIRCULAR

All the students and faculties are hereby informed that the Orientation program for second year civil engineering students is scheduled on 22nd August 2022 at 11.30am in the 100 seater auditorium at fourth floor. Faculties are directed to attend the meeting.

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HoD/Civil

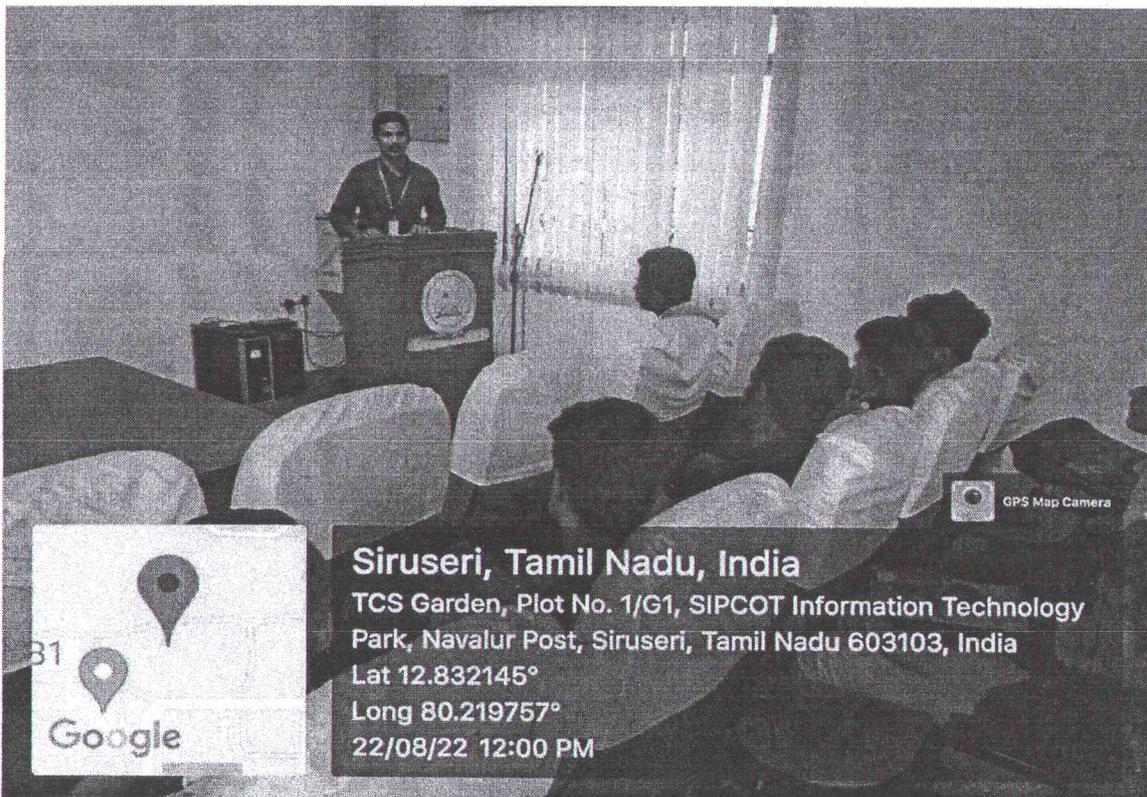


DEPARTMENT OF CIVIL ENGINEERING

ORIENTATION PROGRAMME

Orientation program for Civil engineering second year students was held on 22nd August 2022. Head of the department addressed the students delivered details about the following points.

1. Regulation 2021 and its implementation (Internal marks, model exam for lab, verticals, major and minor programme in new regulation)
2. About faculties and senior students.
3. Department activities and facilities like teaching and learning, assessment, internal and external marks split up, CoE classes and laboratory schedules.
4. Importance of Employability Enhancement Courses (EEC) like Project Work, Internship, Professional Practices, Case Study and Industrial/Practical Training etc
5. Participating in competitions like hackathons, ideathons and competitive exam.
6. Importance of co-curricular and extracurricular activities like presenting paper, seminar, sports, cultural and active participation in NSS.



(HoD addressing Second year students)


PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Siruseri, Chennai - 603 103

Department of Science and Humanities

INDUCTION PROGRAM-2022

FACULTY COORDINATORS

1. Dr.S.Rajakumar, Prof./Mathematics-HOD
2. Mrs. K.Saipriya, AP/English
3. Mrs.Usha, AP/English
4. Mrs.V.Shobana, AP/Physics
5. Dr.Vadivelan, AP/Physics
6. Dr. B.Devibala, AP/Chemistry
7. Mr.R.Ramamoorthy, AP/Mathematics
8. Mr. Subramaniam, AP/Mathematics
9. Mrs.Barveen Fathima, AP/English
10. Mrs.Vimala, AP/Mathematics

Student Coordinators

1. Syed Aakhil- Computer Science and Engineering
2. Hafeezul Naveed- Information Technology
3. Yogesh- Information Technology
4. Prasanna- Computer Science and Business System
5. Shrivarsha- Artificial Intelligence and Data Science
6. Mohamed Thoufiq- Electronics and Communication Engineering
7. Nihal- Electronics and Communication Engineering
8. Udhayabharathi- Electrical and electronics Engineering
9. Mohamed Sarhan- Mechanical Engineering
10. Mohamed Niyas- Civil Engineering



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INDUCTION PROGRAMME 2022-2023 TIMETABLE 27.10.22 To 05.11.22

SEC: A -Room no: SF 301 SEC:B-Room no:SF 302 SEC:C-Room no:SF 303 SEC:D-Room no:SF 307						
Academic Year:	2022-2023		Year :I	Sem: I		
	8.15 AM TO 10.30 AM	10.30-10.45 AM	10.45 AM TO 01.00 PM	1.00-1.45 PM	1.45 PM TO 3.45 PM	
27.10.22	WELCOMING SESSION		CAMPUS VISIT /ID-CARD		SPORTS	
28.10.22	SYMPOSIUM					
29.10.22	OUTING					
MON 31.10.22	A	LEARN WITH ENGLISH	TEA BREAK	APTTITUDE/SOFT SKILL	LUNCH BREAK	SPORTS
	B	APTTITUDE/SOFT SKILL		LEARN WITH ENGLISH		SPORTS
	C	MS WORD/EXCEL/PPT		MEDITATION/YOGA		APTTITUDE/SOFT SKILL
	D	MS WORD/EXCEL/PPT		MEDITATION/YOGA		APTTITUDE/SOFT SKILL
TUES/ 1.11.22	A	EFFECTIVE STRESS MANAGEMENT		COUNSELLING		MS WORD/EXCEL/PPT
	B	EFFECTIVE STRESS MANAGEMENT		COUNSELLING		MS WORD/EXCEL/PPT
	C	COUNSELLING		LEARN WITH ENGLISH		EFFECTIVE STRESS MANAGEMENT
	D	COUNSELLING		APTTITUDE/SOFT SKILL		EFFECTIVE STRESS MANAGEMENT
WED/ 2.11.22	A	LEARN WITH ENGLISH		APTTITUDE/SOFT SKILL		MS WORD/EXCEL/PPT
	B	APTTITUDE/SOFT SKILL		LEARN WITH ENGLISH		MS WORD/EXCEL/PPT
	C	APTTITUDE/SOFT SKILL		MEDITATION/YOGA		SPORTS
	D	LEARN WITH ENGLISH		MEDITATION/YOGA		SPORTS
THUR/ 3.11.22	A	EFFECTIVE STRESS MANAGEMENT		COUNSELLING		SPORTS
	B	EFFECTIVE STRESS MANAGEMENT		COUNSELLING		SPORTS
	C	COUNSELLING		LEARN WITH ENGLISH		EFFECTIVE STRESS MANAGEMENT
	D	COUNSELLING		LEARN WITH ENGLISH		EFFECTIVE STRESS MANAGEMENT
FRI/ 4.11.22	A	LEARN WITH ENGLISH		MEDITATION/YOGA		APTTITUDE/SOFT SKILL
	B	LEARN WITH ENGLISH		MEDITATION/YOGA		APTTITUDE/SOFT SKILL
	C	APTTITUDE/SOFT SKILL		LEARN WITH ENGLISH		SPORTS
	D	LEARN WITH ENGLISH		APTTITUDE/SOFT SKILL		SPORTS
SAT/ 5.11.22	A	FUN WITH ELECTRONICS	MEDITATION/YOGA	CULTURALS		
	B	FUN WITH ELECTRONICS	MEDITATION/YOGA			
	C	MS WORD/EXCEL/PPT	FUN WITH ELECTRONICS			
	D	MS WORD/EXCEL/PPT	FUN WITH ELECTRONICS			

G. Ravi
HoD/S&H

Academic-Head

Principal 2/11/22

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MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Siruseri, Chennai - 603 103.

Department of Science and Humanities

INDUCTION PROGRAM 2022-23

SL.NO	Visiting place	Faculty incharges	Section
1	Birla Planetarium	Mrs.K.Saipriya Mrs.Vimala	A
2	Mahabalipuram	Mrs.S.Usha Mr.K.Ramamoorthy	B
3	Dhakshinachitra & Cholamandala Artist Village	Dr.Vadivelan Dr.Devibala	C
4	Egmore Museum	Mrs.V.Shobana Mr.Subramaniam	D

27.10.2022- 05.11.2022

Sl.No	Faculty incharges	Section
1	Mrs.K.Saipriya	A
2	Mrs.S.Usha	B
3	Dr.Vadivelan	C
4	Mrs.V.Shobana	D

HOD


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MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103
LIST OF SUBJECTS OFFERED BY THE DEPARTMENT

Department of Mechanical engineering

Academic Year: 2022 - 2023

Sem: ODD

Sl. No.	Degree/Branch	Name of the Subject with Code	Year/ Sem	Remarks
1	BE / MECH	CE3391 / Fluid Mechanics and Machinery	II / III	NIL
2	BE / MECH	ME3391 / Engineering Thermodynamics	II / III	NIL
3	BE / MECH	ME3393 / Manufacturing Processes	II / III	NIL
4	BE / MECH	ME3351 / Engineering Mechanics	II / III	NIL
5	BE / MECH	ME3392 / Engineering Materials and Metallurgy	II / III	NIL
6	BE / MECH	ME 3382 / Manufacturing Technology laboratory	II / III	NIL
7	BE / MECH	ME3381 / Computer Aided Machine Drawing	II / III	NIL
8	BE / MECH	ME8595 / Thermal Engineering/ II	III / V	NIL
9	BE / MECH	ME8593 / Design of Machine Elements	III / V	NIL
10	BE / MECH	ME8501 / Metrology and Measurements	III / V	NIL
11	BE / MECH	ME8594 / Dynamics of Machines	III / V	NIL
12	BE / MECH	ME8511 / Kinematics and Dynamics Laboratory	III / V	NIL
13	BE / MECH	ME8512 / Thermal Engineering Laboratory	III / V	NIL
14	BE / MECH	ME8513 / Metrology and Measurements Laboratory	III / V	NIL
15	BE / MECH	ME8792 / Power Plant Engineering	IV / VII	NIL
16	BE / MECH	ME8793 / Process Planning and Cost Estimation	IV / VII	NIL
17	BE / MECH	OMF751 / Lean Six Sigma	IV / VII	NIL
18	BE / MECH	ME8073 / Unconventional Machining Processes	IV / VII	NIL
19	BE / MECH	ME8097 / Non Destructive Testing and Evaluation.	IV / VII	NIL
20	BE / MECH	ME8791 / Mechatronics	IV / VII	NIL
21	BE / MECH	ME8781 / Mechatronics Laboratory	IV / VII	NIL
22	BE / MECH	ME8711 / Simulation and Analysis Laboratory	IV / VII	NIL
23	BE / MECH	ME8712 / Technical Seminar	IV / VII	NIL

List of subjects available from service department

Sl. No.	Degree/Branch	Name of the Subject with Code	Year / Sem	Remarks
1	BE / MECH	MA3351 / Transforms and Partial Differential Equations	II / III	NIL
2	BE / MECH	GE3361 / Professional Development	II / III	NIL
3	BE / MECH	ORO551 / Renewable Energy Sources	III / V	NIL

Sign of  Coordinator with date
 (Name & Sign)



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 No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - T. Park,
 Rev.No.: 01 Siruseri, Chennai - 603 103.

Sign of HoD with date
 (Name & Sign)

Rev.Date: 04.01.21

Department of Mechanical Engineering

Sl.No	Name of the Faculty	Designation	Subject	Technical Skills						T6 Yes/No
				T1	T2	T3	T4	T5	T6	
1	Mr.Subaramaniyan	Assistant Professor	MA3351 / Transforms and Partial Differential Equations	C	C	D	6	3		Yes/No
2	Dr. Ramesh G	Associate Professor	CE3391 / Fluid Mechanics and Machinery	A	A	A	27	13		Yes/No
3	Mr. Muhammed Irfan A A	Assistant Professor	ME3391 / Engineering Thermodynamics	B	C	C	7	3		Yes/No
4	Mr. Tharanikumar L	Assistant Professor	ME3393 / Manufacturing Processes	C	B	C	10	4		Yes/No
5	Mr.S.R.Mohan	Assistant Professor	ME3351 / Engineering Mechanics	B	C	B	9	6		Yes/No
6	Mr. Rajesh J	Assistant Professor	ME3392 / Engineering Materials and Metallurgy	C	B	C	5	4		Yes/No
7	Mr. Tharanikumar L	Assistant Professor	ME 3382 / Manufacturing Technology laboratory	B	B	C	10	4		Yes/No
8	Mrs. Yamini S	Assistant Professor	ME3381 / Computer Aided Machine Drawing	C	D	D	2	1		Yes/No
9	Mrs. Barveen Fathima	Assistant Professor	GE3361 / Professional Development	C	C	D	10	4		Yes/No
10	Mr. Vinothkumar K K	Assistant Professor	COE - CAD Modelling	C	C	B	10	2		Yes/No

T1 Subject Knowledge T4 Years of Exp A : Excellent D : Average

T2 Presentation skills T5 No of times handled the subject Grades B : Very good E : Poor

T3 Proficiency in tools used T6 Does it require Training C : Good

Name & Sign of Faculty incharge
A. Sathak (D. Sathakumar)

Signature

Sign of the HoD with Date
S. P. P. 22

Format No : TLP 05

Rev.No : 1.0

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No. 34, Rajiv Gandhi Road, (OMAR) SIPCOT - IT Park
Siruseri, Chennai - 603 103

Rev./Date : 04.01.21

MOHAMED SAICAK A J COLLEGE OF ENGINEERING, Chennai - 603103
FACULTY COMPETENCE MATRIX

Department of Mechanical Engineering

Sl.No	Name of the Faculty	Designation	Subject	Technical Skills					
				T1	T2	T3	T4	T5	T6
1	Mr. Muhammed Irfan A A	Assistant Professor	ME8595 / Thermal Engineering/ II	C	B	C	7	3	Yes/No
2	Mr. Sakhivel D	Assistant Professor	ME8593 / Design of Machine Elements	C	C	C	9	3	Yes/No
3	Mr. Tharanikumar L	Assistant Professor	ME8501 / Metrology and Measurements	B	B	C	10	4	Yes/No
4	Dr. Jannathanan B / Dr saravanan A	Assistant Professor	ME8594 / Dynamics of Machines	A	A	A	28	15	Yes/No
5	Dr. Vadivelan	Associate Professor	ORO551 / Renewable Energy Sources	C	B	B	17	3	Yes/No
6	Mr. Sakhivel D	Assistant Professor	ME8511 / Kinematics and Dynamics Laboratory	C	C	B	9	3	Yes/No
7	Mr. Muhammed Irfan A A	Assistant Professor	ME8512 / Thermal Engineering Laboratory	C	C	B	7	3	Yes/No
8	Mr. Vinothkumar K K	Assistant Professor	ME8513 / Metrology and Measurements Laboratory	C	B	C	10	3	Yes/No
9	Mr. Muhammed Irfan A A	Assistant Professor	KARMA (R & AC)	C	B	C	9	1	Yes/No
10									

T1 Subject Knowledge T4 Years of Exp A : Excellent D : Average
T2 Presentation skills T5 No of times handled the subject Grades B : Very good E : Poor
T3 Proficiency in tools used T6 Does it require Training C : Good

(Signature)
Name & Sign of Faculty Incharge
Format No : TLP 05

(Signature)
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MOHAMED SAICAK A J COLLEGE OF ENGINEERING
No. 34, Raja Gandhi Road, (OMR) SIPCOT, Ilor, Chennai - 603103.

Sign of the HoD With Date
Re. Date : 04.01.21

Department of Mechanical Engineering

Sl.No	Name of the Faculty	Designation	Subject	Technical Skills						Yes / No
				T1	T2	T3	T4	T5	T6	
1	Mrs. Yamini S	Assistant Professor	ME8792 / Power Plant Engineering	C	D	C	2	1		Yes / No
2	Dr. Jannathanan B / Dr saravanan A	Assistant Professor	ME8793 / Process Planning and Cost Estimation	B	C	C	16	2		Yes / No
3	Dr.S.Prasath	Associate Professor	OMF751 / Lean Six Sigma	B	C	B	22	4		Yes / No
4	Mr.Sakthivel D	Associate Professor	ME8073 / Unconventional Machining Processes	C	B	C	9	3		Yes / No
5	Mr.Rajesh J	Assistant Professor	ME8097 / Non Destructive Testing and Evaluation	C	B	B	5	3		Yes / No
6	Mrs sonadevi	Assistant Professor	ME8791 / Mechatronics	C	D	C	10	3		Yes / No
7	Mr. Kamaraj / Mr.J. Rajesh	Assistant Professor	ME8781 / Mechatronics Laboratory	C	B	C	15	4		Yes / No
8	Mr Mohan S R	Assistant Professor	ME8711 / Simulation and Analysis Laboratory	C	C	C	9	4		Yes / No
9	Mrs. Yamini S / Mr Suresh M	Assistant Professor	ME8712 / Technical Seminar	C	D	D	2	1		Yes / No
10	Mr.Sakthivel D	Assistant Professor	KARMA 3D Printing	C	D	D	9	1		Yes / No

T1 Subject Knowledge T4 Years of Exp

T2 Presentation skills T5 No of times handled the subject

T3 Proficiency in tools used T6 Does it require Training

A : Excellent D : Average

Grades B : Very good E : Poor

C : Good

Name & Sign of Faculty Incharge
(Signature)

PRINCIPAL

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park
Sign of the HoD with Date

Format No : TLP 05

Rev.No : 1.0

Rev.Date : 04.01.21

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CLASS TIMETABLE

Version No:	1	With effect from:	22.08.2022
Academic year:	2022-23	Degree/Branch:	B.E / Mech
Department:	Mechanical	Semester:	III
Year / Sem / Section:	II/III	Room No:	329
Name of the CA:	Mr. Tharanikumar L	Class Strength:	24

Period/ Day	1	2	3	10.30- 10.45 AM TEA BREAK	4	5	6	1.00-1.45 PM LUNCH BREAK	7	8
	8.15-9.00 AM	9.00-09.45 AM	09.45-10.30 AM		10.45-11.30 AM	11.30-12.15 PM	12.15-1.00 PM		1.45-2.45 PM	2.45-3.45 PM
MON	MA3351	CE3391	ME3351		LIB	ME3392	ME3391		Lesson Plan Activity	
TUE	ME3391	ME3393	ME3392		CE3391	ME3351	MA3351(T)		Professional Society /	
WED	ME3393	MA3351	ME3391		ME3392	CE3391	ME3351		Softskill Training /	
THU	MA3351	ME3351	ME3391		CE3391	GE3361	ME3393		COE-3D Printing	
FRI	ME3351	ME3393	CE3391(T)		ME3391	MA3351	ME3392		COE-3D Printing	
SAT	MP Lab(Batch-1) / CAD Lab(Batch-2)				Guest Lecture / Expert Talk				MP Lab(Batch-2) / CAD	

THEORY & LABORATORY DETAILS:

S.No	Subject Code	Name of the Subject	Name of the Faculty	Dept	No. of Hours per Week				
					L	T	P	O	Total
1	MA3351	Transforms and Partial Differential Equations	Mr. Subramanian	S&H	4	1	0	0	5
2	ME3391	Engineering Thermodynamics	Mr. Muhammad Irfan .A.A	Mech	5	0	0	0	5
3	CE3391	Fluid Mechanics and Machinery	Dr.G.Ramesh	Mech	4	1	0	0	5
4	ME3393	Manufacturing Processes	Mr. Tharanikumar L	Mech	4	0	0	0	4
5	ME3351	Engineering Mechanics	Mr. Mohan S R	Mech	5	0	0	0	5
6	ME3392	Engineering Materials and Metallurgy	Mr.J. Rajesh	Mech	4	0	0	0	4
LABORATORY									
7	ME3382	Manufacturing Processes Laboratory	Mr. Tharanikumar L	Mech	0	0	3	0	3
8	ME3381	Computer Aided Machine Drawing	Mrs. Yamini S	Mech	0	0	3	0	3
9	GE3361	Interpersonal Skills / Listening & Speaking	Mrs. Barveen Fathima	S&H	0	0	1	0	1
OTHERS									
10		COE-3D Printing	Mr. Sakthivel D	Mech	0	0	3	0	3
11		Library	Mr. Tharanikumar L	Mech	0	0	0	1	1
12		Social Activity	Mr. Tharanikumar L	Mech	0	0	0	2	2
13		Professional Society	Mr. Tharanikumar L	Mech	0	0	0	2	2
14		Softskill Training	Mrs. Barveen Fathima	S&H	0	0	0	2	2
15		Spoken Tutorial	Mrs. Yamini S	Mech	0	0	0	2	2
15		Lesson Plan Activity	All Subject Handling Faculty	Mech	0	0	0	2	2

Note: L-Lecture, T-Tutorial, P-Practical, O-Other

*Kindly sign with date

Timetable Coordinator

(Name & Sign)

(Mohan.SR)

S.P.P
HOD
(Name & Sign)

(Dr.S.P.RASATH)

Head-Academic
(Name & Sign)

(Dr.A.BALAKRISHNAN)

Format No.: TLP 07

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Rev.Date: 04.01.21

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MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CLASS TIMETABLE

Version No:	1	With effect from:	10.08.2022
Academic year:	2022-23	Degree/Branch:	B.E / Mech
Department:	Mechanical	Semester:	V
Year / Sem / Section:	III/V	Room No:	330
Name of the CA:	Mr. Muhamed Irfaan A A	Class Strength:	39

Period/ Day	1	2	3	10.30- 10.45 AM TEA BREAK	4	5	6	1.00-1.45 PM LUNCH BREAK	7	8
	8.15-9.00 AM	9.00-09.45 AM	09.45-10.30 AM		10.45-11.30 AM	11.30-12.15 PM	12.15-1.00 PM		1.45-2.45 PM	2.45-3.45 PM
MON	ME8501	ME8594	ME8595		ORO551	ME8593	ME8501		COE-Catia	
TUE	ORO551	ME8594	ME8593		ME8501	ME8595	LIB		Professional Society / Softskill Training	
WED	ME8595	ME8593	ME8501		ME8594	ME8594	ORO551		Karma	
THU	ORO551	ME8593	ME8593		ME8501	ME8595	ME8594		Lesson Plan Activity	
FRI	ME8593	ME8595	ORO551		ME8594	ME8501	ME8595		Metrology Lab(Batch-1) / TE Lab(Batch-2)	
SAT	TE Lab(Batch-1) / KOM Lab(Batch-2)				Guest Lecture / Expert Talk				KOM Lab(Batch-1) / Metrology Lab(Batch-2)	

THEORY & LABORATORY DETAILS:

S.No	Subject Code	Name of the Subject	Name of the Faculty	Dept	No. of Hours per Week				
					L	T	P	O	Total
1	ME8595	Thermal Engineering- II	Mr.Muhammad Irfan .A.A	Mech	6	0	0	0	6
2	ME8593	Design of Machine Elements	Mr.D.Sakthivel	Mech	6	0	0	0	6
3	ME8501	Metrology and Measurements	Mr.Tharanikumar L	Mech	6	0	0	0	6
4	ME8594	Dynamics of Machines	Dr..B.Janartahnan/Dr.Sarvanan A	Mech	6	0	0	0	6
5	ORO551	Renewable Energy Sources	Mr.S. Syed Abuthahir	Mech	5	0	0	0	5
LABORATORY									
6	ME8511	Kinematics and Dynamics Laboratory	Mr.D.Sakthivel	Mech	0	0	3	0	3
7	ME8512	Thermal Engineering Laboratory	Mr.Muhammad Irfan .A.A	Mech	0	0	3	0	3
8	ME8513	Metrology and Measurements Lab	Mr.Vinothkumar KK	Mech	0	0	3	0	3
OTHERS									
9		COE-3D Modeling using CATIA	Mr.Vinothkumar KK	Mech	0	0	3	0	3
10		Library	Mr.Muhammad Irfan .A.A/ Mr. Suresh M	Mech	0	0	0	1	1
11		Karma	Mr.Muhammad Irfan .A.A	Mech	0	0	0	2	2
12		Professional Society	Mr.Vinothkumar KK	Mech	0	0	0	2	2
13		Softskill Training	Mrs. Usha	S&H	0	0	0	2	2
14		Lesson Plan Activity	All Subject Handling Faculty	Mech	0	0	0	2	2

Note: L-Lecture, T-Tutorial, P-Practical, O-Other

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Timetable Coordinator
(Name & Sign)

(Mohan.S.P)

HoD
(Name & Sign)

(Dr. S. Prastha)

Head-Academic
(Name & Sign)

(Dr. A. B. Anirudhan)

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CLASS TIMETABLE

Version No:	1	With effect from:	10.08.2022
Academic year:	2022-23	Degree/Branch:	B.E / Mech
Department:	Mechanical	Semester:	VII
Year / Sem / Section:	IV/VII	Room No:	331
Name of the CA:	Mr. Sakthivel D	Class Strength:	30

Period/ Day	1	2	3	10.30- 10.45 AM TEA BREAK	4	5	6	1.00-1.45 PM LUNCH BREAK	7	8
	8.15-9.00 AM	9.00-09.45 AM	09.45-10.30 AM		10.45-11.30 AM	11.30-12.15 PM	12.15-1.00 PM		1.45-2.45 PM	2.45-3.45 PM
MON	ME8792	ME8073	ME8097		ME8712	ME8793	ME8791		Project / Spoken Tutorial	
TUE	ME8073	ME8792	OMF751		ME8793	ME8097	ME8791		Professional Society / Project	
WED	ME8097	ME8793	ME8791		ME8792	ME8073	OMF751		VAC-MBD	
THU	ME8791	ME8097	ME8793		OMF751	ME8792	LIB		Lesson Plan Activity	
FRI	ME8791	ME8793	ME8792		OMF751	ME8073	LIB		VAC-MBD	
SAT	S&A lab(Batch-1) / Mech lab(Batch-2)				Guest Lecture / Expert Talk				S&A lab(Batch-2) / Mech lab(Batch-1)	

THEORY & LABORATORY DETAILS:

S.No	Subject Code	Name of the Subject	Name of the Faculty	Dept	No. of Hours per Week				
					L	T	P	O	Total
1	ME8792	Power Plant Engineering	Mrs.Yamini S/Mr.Suresh M	Mech	5	0	0	0	5
2	ME8793	Process Planning and Cost Estimation	Dr.B.Janarthanan/Dr.Saravanan A	Mech	5	0	0	0	5
3	ME8791	Mechatronics	Mrs.Sonadevi	ECE	5	0	0	0	5
4	OMF751	Lean Six Sigma	Dr.S.Prasath	Mech	4	0	0	0	4
5	ME8073	Unconventional Machining Processes	Mr.D.Sakthivel	Mech	4	0	0	0	4
6	ME8097	Non Destructive Testing and Evaluation	Mr.J. Rajesh	Mech	4	0	0	0	4
LABORATORY									
7	ME8711	Simulation and Analysis Laboratory	Mr. Mohan S R	Mech	0	0	3	0	3
8	ME8781	Mechatronics Laboratory	Mr. Kamaraj / Mr.J. Rajesh	ECE	0	0	3	0	3
9	ME8712	Technical Seminar	Mrs.Yamini S	Mech	0	0	1	0	1
OTHERS									
10		VAC- Multibody Dynamics	Mr. Mohan S R	Mech	0	0	3	0	3
11		Library	Mr.Sakthivel D/Mrs.Yamini S	Mech	0	0	0	2	2
12		Project	Dr. S Prasath/ Mr. Rajesh J	Mech	0	0	0	2	2
13		Professional Society	Mr.J. Rajesh	Mech	0	0	0	2	2
14		Spoken Tutorial	Mrs.Yamini S	S&H	0	0	0	2	2
15		Lesson Plan Activity	All Subject Handling Faculty	Mech	0	0	0	2	2

Note: L-Lecture, T-Tutorial, P-Practical, O-Other

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Timetable Coordinator
(Name & Sign)

(Mohan SR)

S.P.A
HoD 05/09/22
(Name & Sign)

(Dr. S. PRASATH)

Head-Academic
(Name & Sign)

(Dr. A. BALAKRISHNAN)

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CLASS TIMETABLE

Version No:	2	With effect from:	09-02-2023
Academic year:	2022-23	Degree/Branch:	B.E / Mech
Department:	Mechanical	Semester:	IV
Year / Sem / Section:	II/IV	Room No:	327
Name of the CA:	Mr. Tharanikumar L	Class Strength:	24

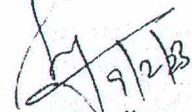
Period/ Day	1	2	3	10.30- 10.45 AM TEA BREAK	4	5	6	1.00-1.45 PM LUNCH BREAK	7	8
	8.15-9.00 AM	9.00-09.45 AM	09.45-10.30 AM		10.45-11.30 AM	11.30-12.15 PM	12.15-1.00 PM		1.45-2.30 PM	2.30-3.15 PM
MON	ME3451	CE3491	ME3491		ME3493	GE3451	ME3492		VAC / CE3481(B1) & ME3461(B2)	
TUE	CE3491	ME3493	ME3451		GE3451	ME3491	ME3492		VAC / CE3481(B2) & ME3461(B1)	
WED	ME3493	GE3451	ME3491		ME3451	ME3492	CE3491		VAC / CE3481(B1) & ME3461(B2)	
THU	GE3451	ME3493	ME3492		CE3491	ME3451	ME3491		VAC / CE3481(B2) & ME3461(B1)	
FRI	ME3493	CE3491	ME3451		ME3491	ME3492	ME3451		Spoken Tutorial	

THEORY & LABORATORY DETAILS:

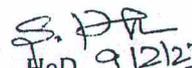
S.No	Subject Code	Name of the Subject	Name of the Faculty	Dept	No. of Hours per Week				
					L	T	P	O	Total
1	ME3491	Theory of Machines	Dr.G.Ramesh	Mech	5	0	0	0	5
2	ME3451	Thermal Engineering	Mr.V.Vigneshwaran	Mech	6	0	0	0	6
3	ME3492	Hydraulics and Pneumatics	Dr.S Prasath	Mech	5	0	0	0	5
4	ME3493	Manufacturing Technology	Mr.J. Rajesh	Mech	5	0	0	0	5
5	CE3491	Strength of Materials	Mr. Tharanikumar L	Mech	5	0	0	0	5
6	GE3451	Environmental Sciences and Sustainability	Mr. Suresh M	Mech	4	0	0	0	4
LABORATORY									
7	CE3481	Strength of Materials and Fluid Machinery Lab	Mr. Emilreyan R / Jaxaki .V	Civil	0	0	4	0	4
8	ME3461	Thermal Engineering Laboratory	Mr.Muhammad Irfan .A.A	Mech	0	0	4	0	4
9		CNC Programming & Simulation (VAC)	Mr. Sakthivel D / Vinothkumar KK	Mr. Mech	0	0	3	0	3
10		Spoken Tutorial - QCAD	Mr.Tharanikumar L	Mech	0	0	2	0	2

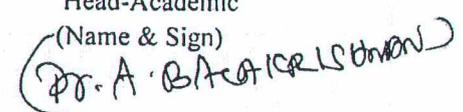
Note: L-Lecture, T-Tutorial, P-Practical, O-Other

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Timetable Coordinator
(Name & Sign)

Mohan.S.R


HoD 9/12/23
(Name & Sign)


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MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

CLASS TIMETABLE

Version No:	2	With effect from:	09-02-2023
Academic year:	2022-23	Degree/Branch:	B.E / Mech
Department:	Mechanical	Semester:	VI
Year / Sem / Section:	III/VI	Room No:	328
Name of the CA:	Mr. Muhamed Irfaan A A	Class Strength:	40

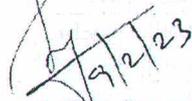
Period/ Day	1	2	3	10.30- 10.45 AM TEA BREAK	4	5	6	1.00-1.45 PM LUNCH BREAK	7	8
	8.15-9.00 AM	9.00-09.45 AM	09.45-10.30 AM		10.45-11.30 AM	11.30-12.15 PM	12.15-1.00 PM		1.45-2.30 PM	2.30-3.15 PM
MON	ME8694	ME8693	ME8651		ME8691	ME8692	ME8694		VAC / ME8681(B1) & ME8682(B2)	
TUE	ME8693	ME8691	ME8694		ME8651	ME8692	ME8692		VAC / ME8681(B2) & ME8682(B1)	
WED	ME8692	ME8694	ME8651		ME8693	ME8691	ME8651		VAC / ME8681(B1) & ME8682(B2)	
THU	ME8651	ME8692	ME8693		ME8691	ME8694	ME8693		VAC / ME8681(B2) & ME8682(B1)	
FRI	ME8694	ME8651	ME8692		ME8691	ME8693(T)	ME8693(T)		HS8581 / Spoken Tutorial	

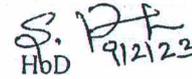
THEORY & LABORATORY DETAILS:

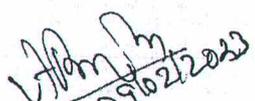
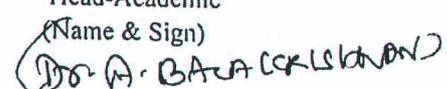
S.No	Subject Code	Name of the Subject	Name of the Faculty	Dept	No. of Hours per Week				
					L	T	P	O	Total
1	ME8651	Design of Transmission Systems	Mr.D.Sakthivel	Mech	6	0	0	0	6
2	ME8691	Computer Aided Design and Manufacturing	Mr.Vinothkumar KK	Mech	5	0	0	0	5
3	ME8693	Heat and Mass Transfer	Mr.Muhammad Irfaan .A.A	Mech	5	2	0	0	7
4	ME8692	Finite Element Analysis	Mr.Mohan S R	Mech	6	0	0	0	6
5	ME8694	Hydraulics and Pneumatics	Dr. A Saravanan	Mech	6	0	0	0	6
LABORATORY									
6	ME8681	CAD / CAM Laboratory	Mr.Mohan S R	Mech	0	0	4	0	4
7	ME8682	Design and Fabrication Project	Mr.Mohan S R / RAJESH J	Mech	0	0	4	0	4
8	HS8581	Professional Communication	Mrs. Saipriya K .	Eng	0	0	2	0	2
OTHERS									
9		Robotics Simulation (VAC)	Dr.A Saravanan/Mr.Rajesh J	Mech	0	0	4	0	4
10		Spoken Tutorial - Python	Mr.V.Vigneshwaran	Mech	0	0	2	0	2

Note: L-Lecture, T-Tutorial, P-Practical, O-Other

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 Timetable Coordinator
 (Name & Sign)


 HbD
 (Name & Sign)


 Head-Academic
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CLASS TIMETABLE

Version No:	0	With effect from:	05-01-2023
Academic year:	2022-23	Degree/Branch:	B.E / Mech
Department:	Mechanical	Semester:	VIII
Year / Sem / Section:	IV / VIII	Room No:	331
Name of the CA:	Mr.Sakthivel D	Class Strength:	29

Period/ Day	1	2	3	10.30- 10.45 AM TEA BREAK	4	5	6	1.00-1.45 PM LUNCH BREAK	7	8
	8.15-9.00 AM	9.00-09.45 AM	09.45-10.30 AM		10.45-11.30 AM	11.30-12.15 PM	12.15-1.00 PM		1.45-3.15 PM	
MON	MG8591	MG8591	IE8693		MG8591	IE8693	IE8693		MG8591	IE8693
TUE	IE8693	IE8693	MG8591		IE8693	MG8591	MG8591		IE8693	MG8591
WED	MG8591	MG8591	IE8693		MG8591	IE8693	IE8693		MG8591	IE8693
THU	IE8693	IE8693	MG8591		IE8693	MG8591	MG8591		IE8693	MG8591
FRI	MG8591	MG8591	IE8693		MG8591	IE8693	IE8693		Project	
SAT	IE8693	IE8693	MG8591		IE8693	MG8591	MG8591		Project	

THEORY & LABORATORY DETAILS:

S.No	Subject Code	Name of the Subject	Name of the Faculty	Dept	No. of Hours per Week				
					L	T	P	O	Total
1	MG8591	Principles of Management	Mr Sakthivel D	Mech	22	0	0	0	22
2	IE8693	Production Planning and Control	Dr S Prasath	Mech	22	0	0	0	22
LABORATORY									
3	ME6811	Project Work	Dr G Ramesh / Dr.S Prasath	Mech	0	0	4	0	4

Note: L-Lecture, T-Tutorial, P-Practical, O-Other

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(Signature)
 Timetable Coordinator
 (Name & Sign)
 D.SAKTHIVEL

(Signature)
 HoD 03/01/23
 (Name & Sign)
 (DR.S.PRASATH)

(Signature)
 Head-Academic
 (Name & Sign)
 (DR.A.BALAJI MR.ISHMAN)

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Rev.Date: 04.01.21

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MOHAMMED SATHAK A J COLLEGE OF ENGINEERING

Siruseri IT park, OMR, Chennai - 603103

LESSON PLAN

Department of Civil Engineering

Name of the Subject	Environmental Sciences and Sustainability	Name of the handling Faculty	Dr R Someswaran
Subject Code	GE3451	Year / Sem	II Year / IV Semester
Acad Year	2022-2023	Batch	2021 - 2025

Course Objective

- To introduce the basic concepts of environment, ecosystems and biodiversity and emphasize on the biodiversity of India and its conservation.
- To impart knowledge on the causes, effects and control or prevention measures of environmental pollution and natural disasters.
- To facilitate the understanding of global and Indian scenario of renewable and non-renewable resources, causes of their degradation and measures to preserve them.
- To familiarize the concept of sustainable development goals and appreciate the interdependence of economic and social aspects of sustainability, recognize and analyse climate changes, concept of carbon credit and the challenges of environmental management.
- To inculcate and embrace sustainability practices and develop a broader understanding on green materials, energy cycles and analyse the role of sustainable urbanization.

Course Outcome

At the end of the course, the students will able to,

CO1 - To recognize and understand the functions of environment, ecosystems and biodiversity and their conservation.

CO2 - To identify the causes, effects of environmental pollution and natural disasters and contribute to the preventive measures in the society.

CO3 - To identify and apply the understanding of renewable and non-renewable resources and contribute to the sustainable measures to preserve them for future generations.

CO4 - To recognize the different goals of sustainable development and apply them for suitable technological advancement and societal development.

CO5 - To demonstrate the knowledge of sustainability practices and identify green materials, energy cycles and the role of sustainable urbanization

Lesson Plan

Sl. No.	Topic(s)	T / R*	Periods Required	Mode of Teaching (BB / PPT / NPTEL / MOOC / etc)	Blooms Level (L1-L6)	CO	PO
		Book					
UNIT I - ENVIRONMENT AND BIODIVERSITY							
1	Definition, scope and importance of environment, need for public awareness	T1/R5	1	BB	L1	CO1	PO7
2	Concept of an ecosystem	T1/R5	1	BB	L1	CO1	PO7
3	Energy flow, ecological succession.	T1/R5	1	BB	L1	CO1	PO7
4	Types of biodiversity: genetic, species and ecosystem diversity	T1/R5	1	BB	L1	CO1	PO7
5	Values of biodiversity, India as a mega-diversity nation	T1/R5	1	PPT	L1	CO1	PO7
6	Hot-spots of biodiversity – threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts	T1/R5	1	PPT	L1	CO1	PO7
7	Endangered and endemic species of India – conservation of biodiversity: In-situ and ex-situ	T1/R5	1	BB	L1	CO1	PO7

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any

Assignment

Evaluation method

Marks out of 10

UNIT II - ENVIRONMENTAL POLLUTION

8	Causes, effects and preventive measures of water soil pollution	T2/R4	1	BB	L1	CO2	PO7
9	Causes, effects and preventive measures of air and noise pollution	T1/R4	1	BB	L1	CO2	PO7
10	Solid, Hazardous waste management.	T1/R4	1	BB	L2	CO2	PO7
11	E-Waste management	T2/R4	1	BB	L2	CO2	PO7
12	Case studies on Occupational Health and Safety Management system (OHASMS).	T2/R4	1	PPT	L4	CO2	PO7
13	Environmental protection, Environmental protection acts	T2/R4	1	BB	L2	CO2	PO7

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any Case Study : Submit a report on Occupational Health and Safety Management system in an industry

Evaluation method

Marks out of 10

UNIT III - RENEWABLE SOURCES OF ENERGY

14	Energy management and conservation	T2/R4	1	BB	L1	CO3	PO6,PO7
15	New Energy Sources: Need of new sources.	T2/R4	1	PPT	L2	CO3	PO6,PO7
16	Different types new energy sources	T1/R4	1	BB	L1	CO3	PO6,PO7
17	Applications of- Hydrogen energy	T1/R4	1	BB	L2	CO3	PO6,PO7
18	Ocean energy resources, Tidal energy conversion	T2/R4	1	PPT	L2	CO3	PO6,PO7
19	Concept, origin and power plants of geothermal energy.	T2/R4	1	PPT	L2	CO3	PO6,PO7

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any. Assignment

Evaluation method

Marks out of 10

UNIT IV - SUSTAINABILITY AND MANAGEMENT

20	Development , GDP	T2/R4	1	PPT	L2	CO4	PO6,PO7
21	Ustainability- concept, needs and challenges	T2/R4	1	BB	L2	CO4	PO6,PO7
22	Economic, social and Environmental aspects of sustainability	T2/R4	1	BB	L2	CO4	PO6,PO7
23	From unsustainability to sustainability-millennium development goals	T2/R4	1	PPT	L2	CO4	PO6,PO7
24	Sustainable protocols, Sustainable Development Goals-targets	T2/R1	1	BB	L2	CO4	PO6,PO7
25	Sustainable indicators and intervention areas	T2/R4	1	BB	L2	CO4	PO6,PO7
26	Climate change- Global, Regional and local environmental issues and possible solutions-case studies	T2/R5	1	BB	L4	CO4	PO6,PO7
27	Concept of Carbon, Credit, Carbon Footprint. Environmental management in industry-A case study.	T2/R4	1	BB	L2	CO4	PO6,PO7

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any Case Study: Climate change and effects

Evaluation method

Marks out of 10

UNIT V - SUSTAINABILITY PRACTICES

28	Zero waste and R concept, Circular economy, ISO 14000 Series	T5/R4	1	PPT	L2	CO5	PO5, PO6,PO7
29	Material Life cycle assessment, Environmental Impact Assessment	T6/R4	1	PPT	L2	CO5	PO5, PO6,PO7
30	Sustainable habitat: Green buildings, Green materials, Energyefficiency, Sustainable transports.	T5/R4	1	BB	L2	CO5	PO5, PO6,PO7
31	Sustainable energy: Non-conventional Sources, Energy Cycles	T7/R4	1	BB	L2	CO5	PO5, PO6,PO7
32	carbon cycle, emission and sequestration,	T7/R4	1	PPT	L2	CO5	PO5, PO6,PO7
33	Green Engineering: Sustainable urbanization- Socio-engineomical and technological change	T5/R4	1	PPT	L2	CO5	PO5, PO6,PO7

Suggested Activity: Assignment / Case Studies / Tuorials/ Quiz / Mini Projects / Model Developed/others Planned if any Assignment

Evaluation method

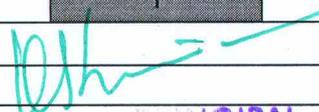
Marks out of 10

Content Beyond the Syllabus Planned

1	Case studies related to the Industrial safety						
2	Marine Pollution						
3	Pollution in the space and solutions						
<p>Text Books</p> <p>1 Anubha Kaushik and C. P. Kaushik's "Perspectives in Environmental Studies", 6th Edition, New Age International Publishers, 2018.</p> <p>2 Benny Joseph, 'Environmental Science and Engineering', Tata McGraw-Hill, New Delhi, 2016</p> <p>3 Gilbert M.Masters, Introduction to Environmental Engineering and Science", 2nd Edition, Pearson Education 2004.</p> <p>4 Allen, D. T. and Shonnard, D. R., Sustainability Engineering: Concepts, Design and Case Studies, Prentice Hall.</p> <p>5 Bradley. A.S; Adebayo, A.O., Maria, P. Engineering applications in sustainable design and development, Cengage learning.</p> <p>6 Environment Impact Assessment Guidelines, Notification of Government of India, 2006</p>							

[Handwritten Signature]
PRINCIPAL

MOHAMED SATHAR A.J. COLLEGE OF ENGINEERING
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Siruseri, Chennai - 603 103.

7	Mackenthun, K.M., Basic Concepts in Environmental Management, Lewis Publication, London, 1998													
Reference Books														
1	R.K. Trivedi, "Handbook of Environmental Laws, Rules, Guidelines, Compliances and Standard", Vol. I and II, Enviro Media, Edition 2010													
2	Cunningham, W.P. Cooper, T.H. Gorhani, „Environmental Encyclopedia”, Jaico Publ., House, Mumbai, 2001.													
3	Dharmendra S. Sengar, „Environmental law”, Prentice Hall of India PVT LTD, New Delhi, 2007.													
4	Rajagopalan, R, „Environmental Studies-From Crisis to Cure”, Oxford University Press, Third Edition 2015.													
5	Erach Bharucha "Textbook of Environmental Studies for Undergraduate Courses" Orient Blackswan Pvt. Ltd. 2013.													
Website / URL References														
1	Acid Rain : https://www.youtube.com/watch?v=dmgLES14GGU													
2	Biogas Plant : https://www.youtube.com/watch?v=3UafRz3QeO8													
3	Rain Water Harvesting : https://www.youtube.com/watch?v=hGtp-U5XhCQ													
4	Nuclear Accident and Nuclear Holocaust : https://www.youtube.com/watch?v=u5eDgYhyDaA													
Blooms Level														
Level 1 (L1) : Remembering		Lower Order Thinking	Fixed Hour Exams	Level 4 (L4) : Analysing				Higher Order Thinking	Projects / Mini Projects					
Level 2 (L2) : Understanding				Level 5 (L5) : Evaluating										
Level 3 (L3) : Applying				Level 6 (L6) : Creating										
Mapping syllabus with Bloom's Taxonomy LOT and HOT														
Unit No	Unit Name	L1	L2	L3	L4	L5	L6	LOT	HOT	Total				
Unit 1	ENVIRONMENT AND BIODIVERSITY	7	0	0	0	0	0	7	0	7				
Unit 2	ENVIRONMENTAL POLLUTION	2	3	0	1	0	0	5	1	6				
Unit 3	RENEWABLE SOURCES OF ENERGY	2	4	0	0	0	0	6	0	6				
Unit 4	SUTAINABILITY AND MANAGEMENT	0	7	0	1	0	0	7	1	8				
Unit 5	SUTAINABILITY PRACTICES	0	6	0	0	0	0	6	0	6				
Total		11	20	0	2	0	0	31	2	33				
Total Percentage		33.33	60.61	0.00	6.06	0.00	0.00	93.94	6.06	100.00				
CO PO Mapping														
	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	2	1	-	-	-	2	3	2	-	-	-	2	-	-
CO2	3	2	-	-	-	3	3	1	-	-	-	2	-	-
CO3	3	0	1	-	-	2	2	1	-	-	-	2	-	-
CO4	3	2	1	1	-	2	2	1	-	-	-	2	-	-
CO5	3	2	1	-	-	2	2	1	-	-	-	1	-	-
Avg	2.4	1.8	1	1	-	2.2	2.4	1.2	-	-	-	1.8	-	-
Justification for CO-PO mapping														
CO1	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development (PO7)													
CO2	Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development (PO7)													
CO3	Apply novel techniques for safety and economical issues, and to assume social responsibilities relevant to the professional engineering practice(PO6), Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development (PO7)													
CO4	Apply novel techniques for safety and economical issues, and to assume social responsibilities relevant to the professional engineering practice(PO6), Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development (PO7)													
CO5	Graduate will demonstrate skills to use modern engineering tools, software and equipment to analyze problems(PO5), Apply novel techniques for safety and economical issues, and to assume social responsibilities relevant to the professional engineering practice(PO6), Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development (PO7)													
3	High level				2	Moderate level				1	Low level			
Name & Sign of Faculty Incharge : Dr R.Someswaran											<i>R.Someswaran</i>			
Name & Sign of Subject Expert : Dr.A.Balakrishnan											<i>Dr.A.Balakrishnan</i>			
Head of the Department : Dr.R.Someswaran											<i>Dr.R.Someswaran</i>			
											 PRINCIPAL MOHAMED SATHAR A.J. COLLEGE OF ENGINEERING No. 34, Rajiv Gandhi Road, (OMAR) SIPCOT - IT Park, Siruseri, Chennai - 603 103.			



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

To

The Principal
MSAJCE
Chennai

Permitted
sm
18/05/2023

Respected Sir,

Sub: Guest Lecture on "Electromagnetic Fields" - Reg

With reference to the above subject, we are interested to conduct the guest lecture in "Electromagnetic fields" for third year ECE Students on 22/05/2023 . This will be useful for the students to develop their subject knowledge . I kindly request you to give permission to conduct the guest lecture.

Thanking You

Yours Sincerely

S. Manju
(Dr.I.MANJU)

HoD/ECE

Place: MSAJCE

Date: 18/05/2023

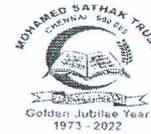
Ushini

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

Date: 18.05.2023

This is to inform all third year students that participate in the guest lecture on “Electromagnetic Fields” will be held on 22/05/2023 at the room no.217. In this regard, all third year ECE students are kindly instructed to attend this guest lecture and get benefited.

Copy to

- All Department
- IQAC
- Notice Board

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Siruseri, Chennai - 603 103.

S. Manjini,
HOD-ECE



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

Date: 18.05.2023

It is hereby informed that the following faculty members are allotted to conduct the guest lecture in "ELECTROMAGNETIC FIELDS" on 22/05/2023. All are requested to present room at 317 for the smooth conduction of program.

Committee List:

S.No	Name of the faculty	Name of the committee
1.	Dr.I.Manju	Program Organizing Committee
2.	Mrs.S.Anusuya	
3.	Mr.M.Ashok Kumar	Discipline Committee
4.	Mrs.Abida Begum	Hospitality Committee

Copy to

- ECE Department
- IQAC
- Notice Board

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S. Manjini
HOD-ECE



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Certified by IRQS



IN ASSOCIATION WITH IETE
DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ORGANIZES
SEMINAR ON

ELECTROMAGNETIC FIELDS

GUEST LECTURE

DR.JOSHUA KUMARESAN M.E, M.S, PH.D
PROFESSOR (Dept. of ECE)

AT

SAVEETHA SCHOOL OF ENGINEERING




PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Siruseri, Chennai - 603 103.

DATE : MAY 22, 2023

TIME : 9AM TO 11AM

VENUE : 216

CONVENOR
DR.I.MANJU

HEAD-IQAC & HOD-ECE

COORDINATOR
MRS.S.ANUSUYA
AP/ECE

MOHAMED SATHAK A J COLLEGE OF ENGINEERING , Chennai-603 103

VISITOR FEEDBACK

Department: **ECE**

Academic Year: **22/23**

Name of the Guest	Dr. Joshua Kumarasan .
Organization Details	Sareetha School of Engineering.
Mail id & Contact no.	joshua746@ gmail . com .
Purpose of Visit	GL / Seminar / Workshop / Conference / R&D / FDP / External Examiner / AUR / Management / Culturals / others
Beneficiary- Department / Year - if applicable	ECE
Date of Visit	22/05/23
How would you rate the student Interaction	Excellent / Good / Average
How would you rate the faculty Interaction(if any)	Excellent / Good / Average
Comments on facilities of the college	Good Environment .
General Remarks	Interactive & Good students also staffs .
Scope for Collaborative work with your organisation	
Area in which collaborative work can be done	



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Name & Signature of Coordinator

Signature of Guest

Format No : FB 07

Rev. No : 1.0

Rev. Date : 04.01.21



Department of Electronics and Communication Engineering

**Guest Lecture on EMF
Attendance Sheet**

Date: 22.05.2023

Time: 10:30 AM to 12:30 PM

S.No	Register Number	Student Name	Year / Dept	Signature
1.	311821106004	A. Anubaran	3 rd /ECE	A. Anubaran
2.	311821106303	S. Karthikeyan	3 rd /ECE	S. Karthikeyan
3.	311821106302	K.N.Dinesh	3 rd /ECE	K.N.Dinesh
4.	311821106016	R.MAHESWARAN	3 rd /ECE	R.Maheswaran
5.	311821106010	K. Gopi	3 rd /ECE	K. Gopi
6.	311821106011	Huan's Thameem Ansari. A	3 rd /ECE	Huan's Thameem Ansari. A
7.	311821106019	N.J. mohamed yahya	3 rd /ECE	N.J. mohamed yahya
8.	311821106009	R. Gajndiran	3 rd /ECE	R. Gajndiran
9.	311821106014	J. Jaya Sudhan	3 rd /ECE	J. Jaya
10.	311821106017	N. Marthul hikun	3 rd /ECE	N. Marthul hikun
11.	311821106304	T. Sahul hameed	3 rd /ECE	T. Sahul hameed
12.	311821106015	D. Kishore	3 rd /ECE	D. Kishore
13.	311821106003	K. Anish Kumar	3 rd /ECE	K. Anish Kumar
14.	311821106032	K. Subail	3 rd /ECE	K. Subail
15.	311821106020	M. Mohammed Aathif	3 rd /ECE	M. Mohammed Aathif
16.	311821106028	V. Sanjay	3 rd /ECE	V. Sanjay
17.	311821106002	V. Abinaya	3 rd /ECE	V. Abinaya
18.	311821106006	H. Bhavani	"	H. Bhavani
19.	311821106007	S. Chithra	"	S. Chithra
20.	311821106025	S. pavithra	"	S. pavithra
21.	311821106001	A. Basith	"	A. Basith
22.	311821106012	R. Halith	3 rd /ECE	R. Halith
23.	311821106027	Mohamed Ibrahim	3 rd /ECE	Mohamed Ibrahim
24.	311821106008	C. Dhivya	3 rd /ECE	C. Dhivya
25.	311821106035	Syed Ahsid	3 rd /ECE	Syed Ahsid
26.	311821106036	Venkatesh .	3 rd /ECE	Venkatesh .
27.	311821106033	T. Surya	3 rd /ECE	T. Surya

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Sriperumbudur, Chennai - 602103

28.	311821106013	Humaira Nusrath	3 rd /ECE	Hum
29.	31182116031	G. Sourdharay	IV/ECE	G.S.
30.	311820106301	S. Balakrishnan	IV/ECE	S.B.
31.	311820106303	R. Geetha.	IV/ECE	R.G.
32.	311820106602	R. Kishore	IV/ECE	R.K.
33.	311820106010	Porjain Mohamed	IV/ECE	P.M.
34.	311820106302	S.P. Fouzia JABEEN	IV/ECE	S.P.F.
35.	311820106305	KAMALI	IV/ECE	Kamali
36.	311820106009	Jyothi	IV/ECE	Jyothi
37.	311820106001	Abinaya	IV/ECE	Abinaya
38.	311820106002	Abitha	IV/ECE	Abitha
39.	311820106006	Basharathulla K	IV/ECE	B.K.
40.	311820106013	Medhivanan R.	IV/ECE	M.R.
41.	311820106021	Shanmukh Palanidharan	IV/ECE	S.P.
42.	311820106011	Kishore.S	IV/ECE	S.K.
43.	311820106018	Pranav S	IV/ECE	P.S.
44.	311820106007	Carol prasy	IV/ECE	Carol.
45.	311820106014	Mohamed Mukshith	IV/ECE	M.M.
46.	311820106022	Shaik Abdullah	IV/ECE	Shaik
47.	311820106025	Thammar Sherif	IV/ECE	Thammar
48.	311820106306	Mohamed Nazeem	IV/ECE	M.N.
49.	311820106003	Affal Ahmed.	IV/ECE	Affal
50.	311820106047	Poo sathish kumar	IV/ECE	P.S.K.
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STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: ECES

Academic Year: 2022-23

Name of the Student	<u>S. Chithra</u>
Year/Sem	<u>III / IV</u>
Name of the Guest	<u>MH. JOSVA KUMERASAN</u>
Name of the Institution/ University/ Industry/R&D Organization.	<u>saveetha university</u>
Event	<u>GL/Seminar/Workshop/Conference/Others</u>
Date of Event	<u>22/05/23</u>
Was the session Useful?	<u>yes</u>
Expert Interaction	<u>Excellent / Good / Average</u>
Whether the lecture was related to Subject ? If yes mention the subject	<u>YES, Electro magnetic Field</u>
Brief Summary/Report of the topic	<u>It was very useful for electro magnetic field</u> 
General Remarks	<u>More guest lecture.</u> PRINCIPAL MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park, Siruseri, Chennai - 603 103.

Format No: FB 01

Rev. No : 1.0

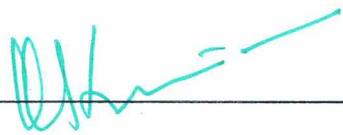
Chithra S.
Signature of Student
Rev. Date : 04.01.21

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STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: *ECE*

Academic Year: *2022-23*

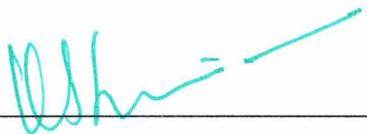
Name of the Student	<i>H. Bhavani</i>
Year/Sem	<i>III / IV</i>
Name of the Guest	<i>MR. DR. JOSHVA KUMARESAN</i>
Name of the Institution/ University/ Industry/R&D Organization.	<i>Saveetha university</i>
Event	<input checked="" type="checkbox"/> GL/Seminar/Workshop/Conference/Others
Date of Event	
Was the session Useful?	<i>yes</i>
Expert Interaction	<input checked="" type="checkbox"/> Excellent / Good / Average
Whether the lecture was related to Subject ? If yes mention the subject	<i>yes, Electromagnetic Field</i>
Brief Summary/Report of the topic	<i>It was very useful for Electro magnetic Field and Sir has given many Important questions.</i>
General Remarks	<i>needed.</i>  PRINCIPAL MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - II Park, Siruseri, Chennai - 603 103. <i>Bhavani H.</i> Signature of Student

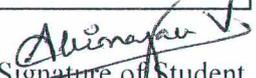
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STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: **ECE**

Academic Year: **2023**

Name of the Student	V. ABINAYAA
Year/Sem	3 rd Year / IV Sem
Name of the Guest	Dr. Jotha Kumaran
Name of the Institution/ University/ Industry/R&D Organization.	Savitri University
Event	GL/Seminar/Workshop/Conference/Others
Date of Event	22/05/23
Was the session Useful?	Yes,
Expert Interaction	Excellent / Good / Average
Whether the lecture was related to Subject? If yes mention the subject	Yes, Electro magnetic field
Brief Summary/Report of the topic	It was very useful for EM and Sir has given many important Questions.
General Remarks	<p>9/10</p> <p style="text-align: right;">  PRINCIPAL MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING No. 34, Rajiv Gandhi Road, (OVAR) SIPCOT - IT Park, Siruseri, Chennai - 603103. </p>


Signature of Student

MOHAMED SATHAK A J COLLEGE OF ENGINEERING, Chennai - 603103

STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department:

Academic Year:

Name of the Student	J. Jaya Sudhan.
Year/Sem	II / IV
Name of the Guest	Dr. Joshua Kumaresan
Name of the Institution/ University/ Industry/R&D Organization.	Savitha School of Engineering
Event	GL/Seminar/Workshop/Conference/Others
Date of Event	22/05/2023
Was the session Useful?	Yes.
Expert Interaction	Excellent / Good / Average
Whether the lecture was related to Subject? If yes mention the subject	Yes. It is Related about Electromagnetic fields.
Brief Summary/Report of the topic	I learn about the practical knowledge on Electromagnetic fields.
General Remarks	Good.  PRINCIPAL MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park Siruseri, Chennai - 603103

Signature of Student

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STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: *ECE*

Academic Year: *2022-23*

Name of the Student	<i>G. Gowndaraya</i>
Year/Sem	<i>II - IV</i>
Name of the Guest	<i>Mr. Joshua kumaresan</i>
Name of the Institution/ University/ Industry/R&D Organization.	<i>Savitra University</i>
Event	<i>GL/Seminar/Workshop/Conference/Others</i>
Date of Event	<i>22/05/2023</i>
Was the session Useful?	<i>Yes. It's useful.</i>
Expert Interaction	<i>Excellent</i> / Good / Average
Whether the lecture was related to Subject ? If yes mention the subject	<i>Yes. Electro magnetic field.</i>
Brief Summary/Report of the topic	<i>Learn about Recent-trends in magnetic fields.</i>
General Remarks	<i>Interesting session.</i>

[Signature]
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 No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
 Siruseri, Chennai - 603 103, Rev. Date : 04.01.21

Format No: FB 01

Rev. No : 1.0

G. Gowndaraya
 Signature of Student



REPORT ON " GUEST LECTURE "

Department:	ECE – MSAJCE, Chennai	
Type of Event:	Guest Lecture	
Event Title:	Electromagnetic Fields	
Date & Time:	22/05/2023	
Venue / Mode(Platform):	MSAJCE- 217 class room / Physical	
Organizer:	Dr.I.Manju, HOD/ECE	
Coordinator(s):	Mrs.S.Anusuya, AP/ECE	
Details of Participants:	Around 50 Participants (Students from Department of ECE)	
Profile of the Resource Person	Name of the Resource Person	Dr.Joshua Kumaresan
		Saveetha School of Engineering
	Email id	Joshua746@gmail.com
Write-up on Inauguration Event	The goal of this event to gain knowledge about Electromagnetic Field. Resource person gave lecture about introduction , Concepts and real time applications of EMF in detailed manner and also he conducted student interaction session for cleared their doubts .Nearly 50 students participated in this event.	

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IN ASSOCIATION WITH IETE
DEPARTMENT OF ELECTRONICS AND COMMUNICATION

ORGANIZES
SEMINAR ON
ELECTROMAGNETIC FIELDS

GUEST LECTURE
DR. JOSHUA KUMARASAN M.E., M.S., PH.D
PROFESSOR (Dept. of ECE)
AT
SARVEETHA SCHOOL OF ENGINEERING

CONVENOR
DR. I. MANJU
HEAD-IQAC & HOD-ECE

DATE: MAY 22, 2023
TIME: 9AM TO 11AM
VENUE: 216

COORDINATOR
MRS. S. ANUSUYA
AP/ECE

Photographs of the event



Feedback from the participants

Nice and informative session.
Very useful.

PREPARED BY

VERIFIED BY

Signature:

Name & Deignation: Mrs.S.Anusuya, AP/ECE

Date: 23.05.23

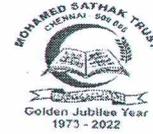
Dr.I.Manju, Head-ECE&IQAC

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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

To

The Principal
MSAJCE
Chennai

Permitted as per norms
dm
27/02/23

Respected Sir,

Sub: Webinar on “Applying Artificial Intelligence for Road Safety” - Reg

With reference to the above subject, we are interested to conduct the webinar on “**Applying Artificial Intelligence for Road Safety**” for our students on 01/03/2023 . This will be useful for the students to develop their innovative skills. I kindly request you to give permission to conduct the seminar.

Thanking You

[Signature]
Yours Sincerely

Place: MSAJCE
Date: 27/02/2023

[Signature]
HoD/ECE

[Signature]
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Ref No. /MSAJCE-ECE

CIRCULAR

It is hereby informed that IQAC & Department of ECE (ISF) jointly Organize Webinar about “Applying Artificial Intelligence for Road safety” on 01.03.2023 Wednesday. Hence, all the faculty members and students from, ECE, CSE, IT and EEE are advised to attend the webinar positively at fourth floor, Lily Hall at 1.45pm.

S. Manjiv
HOD/ECE

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Copy to :

- ECE Department Notice board
- Hod's of EEE, CSE & IT



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IQAC &
DEPARTMENT OF
ELECTRONICS AND COMMUNICATION ENGINEERING
IETE STUDENTS FORUM (ISF)

JOINTLY ORGANIZE
WEBINAR ON

APPLYING ARTIFICIAL INTELLIGENCE
FOR ROAD SAFETY

Date: 01.03.2023

Time: 2 PM to 3 PM

Meet Link: <http://meet.google.com/mop-qaeg-mmo>

RESOURCE PERSON

MR. Anbumani Subramanian
Principal Engineer at Intel

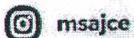


Convenor

DR.I.MANJU
Head-IQAC & ECE

Coordinator

Mrs.E.JAYANTHI
AP/ECE



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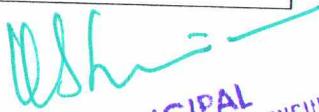
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WEBINAR REPORT HELD ON 01.03.2023

Department:	IQAC & ECE – MSAJCE Chennai	
Type of Event:	WEBINAR	
Event Title:	APPLYING ARTIFICIAL INTELLIGENCE FOR ROAD SAFETY	
Date & Time:	1-03-2023 & 2.00 PM -3.00 PM	
Venue / Mode(Platform):	MSAJCE-Lily Hall , Fourth floor	
Organizer:	Dr.I.Manju,Professor, HOD/ECE	
Coordinator(s):	Mrs.Jayanthi.E, AP/ECE-MSAJCE	
Details of Participants:	Around 100 Internal participants (Students and Faculty from ECE, EEE, CSE & IT Department, MSAJCE).	
Profile of the Chief Guest(s)	Name of the Guest Speaker 1	Dr.Anbumani Subramanian
	Organization	Intel
	Designation	Principal Engineer
	Contact Number	+91-9901154000
	E-mail ID	anbumani@gmail.com
Write-up on Event	<p>Road safety is a big societal problem and is acute for India where the road accidents are the highest in the world. This talk will explain the importance of road safety, how technology and artificial intelligence (AI) in particular can be used, a view of the academic research from India, and how students and researchers can use AI and machine learning to work on problems relevant to road safety in India.</p> <p>By lowering human error, accelerating the process of accident detection and reaction, and enhancing safety, AI can improve road traffic. The accuracy of the data and predictions produced by video analytics has multiplied tenfold because to advances in computer vision. The current issues can be more easily identified with the use of AI, but they cannot be resolved on their own. The key to resolving the current problem may lie in redesigning the roadways to remove certain accident-causing variables.</p> <p>By enhancing traffic flow, AI has the ability to assist in boosting efficiency at peak times. The rapid growth of artificial intelligence has resulted in a fundamental change in how road traffic management is conducted (AI). AI can now forecast and control the flow of people, cars, and cargo at various points throughout the transportation network with increasing levels of precision.</p> <p>Simple AI systems, together with machine learning and data analytics, are enabling improved outcomes as we advance the area.</p>	


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IETE STUDENTS FORUM (ISF)
 JOINTLY ORGANIZE
 WEBINAR ON
APPLYING ARTIFICIAL INTELLIGENCE FOR ROAD SAFETY

Date: 01.03.2023
 Time: 2 PM to 3 PM
 Meet Link: <http://meet.google.com/mop-qaeg-mmo>

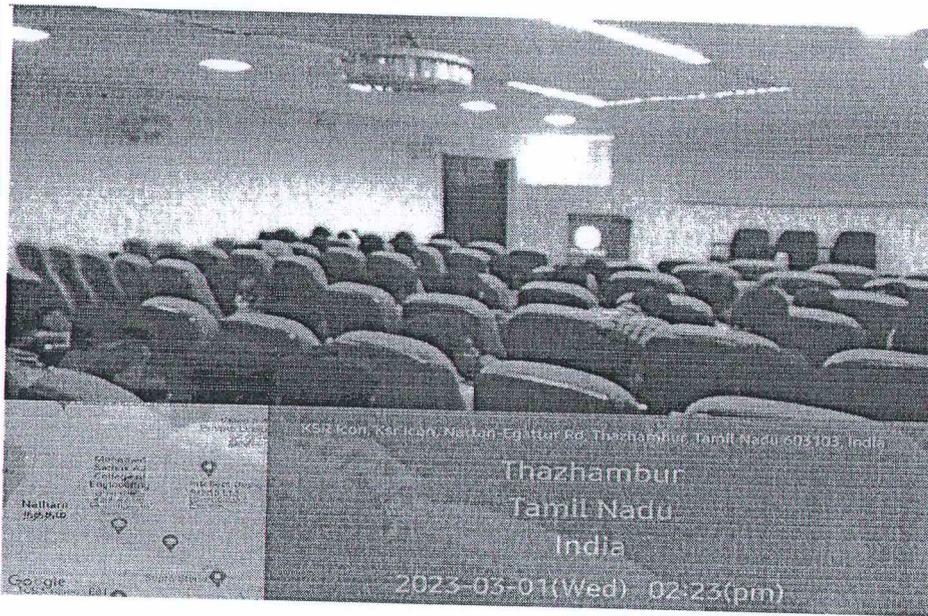
RESOURCE PERSON
MR. Anbumani Subramanian
 Principal Engineer at Intel

Convenor **Coordinator**
DR. I. MANJU **Mrs. E. JAYANTHI**
 Head-IQAC & ECE AP/ECE

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Photographs

Webinar- Poster

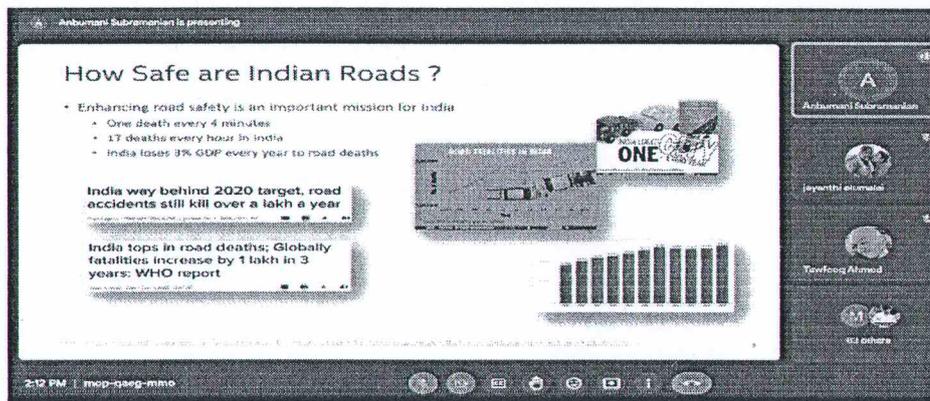
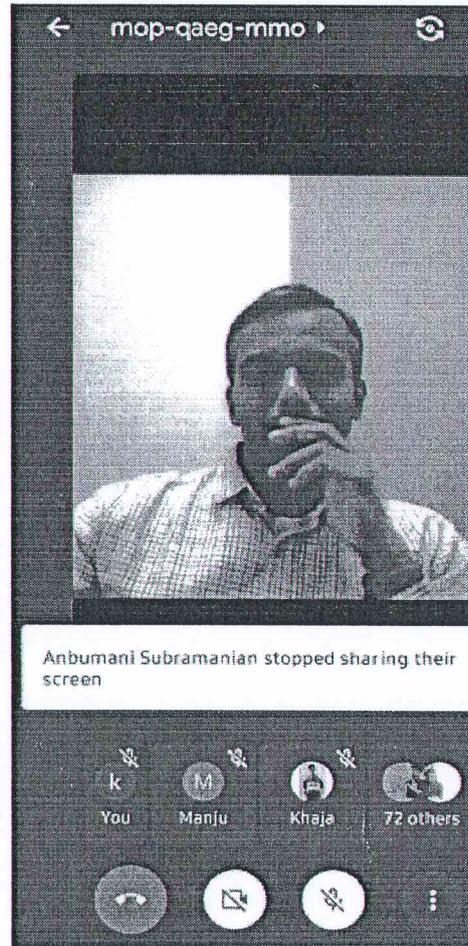
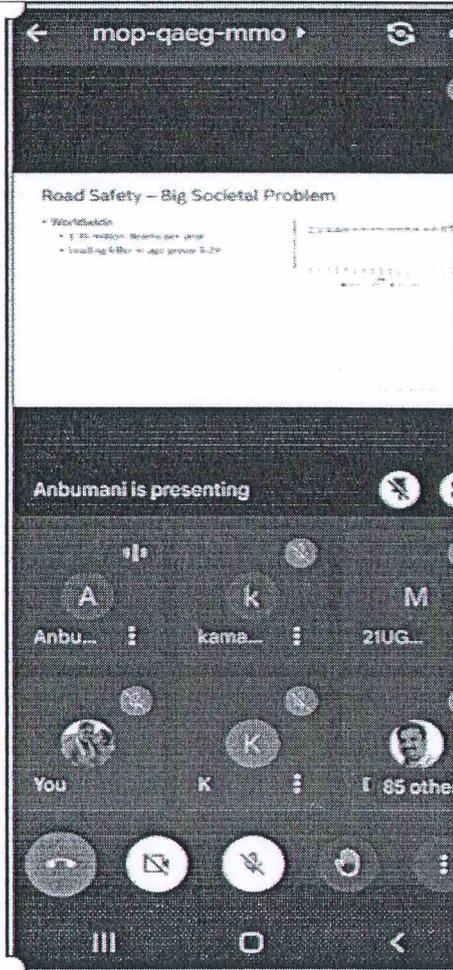


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Presentation of the speaker



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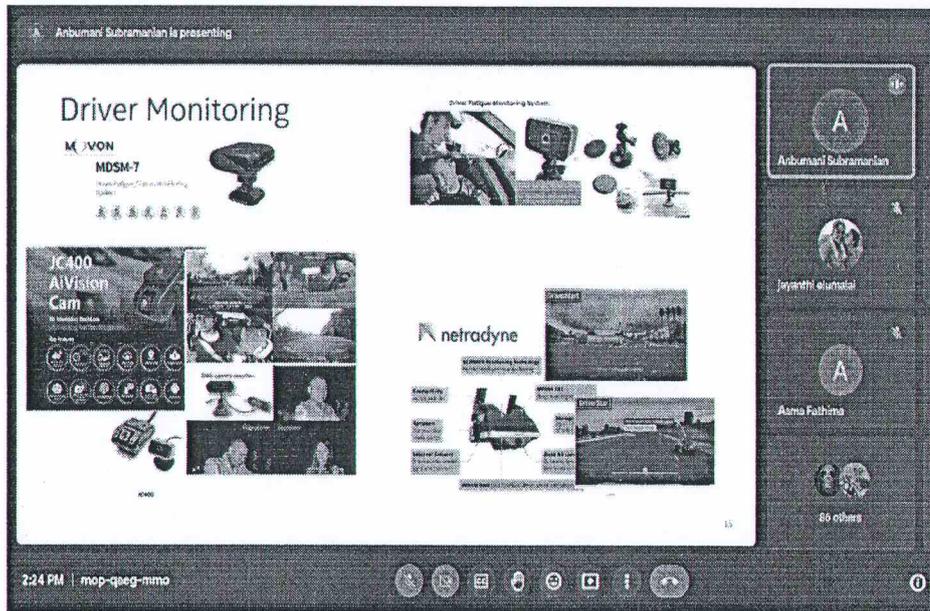
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Gathering Of Participants



R6P9+Q6J, Siruseri, Tamil Nadu 600130, India
 Siruseri
 Tamil Nadu
 India



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<p>Feedback from the participants</p>	<p>Mohamed aathif-II ECE-Help us to learn some information about the AI and gain knowledge in AI</p> <p>Vishali.S-II yr CSE-We get to know the importance and more related on Artificial Intelligence.</p> <p>Abdul Malik-II yr EEE-It's very easy to understand the topic, useful and meaningful.</p> <p>Prajesh-II yr IT-It was excellent session which we about learn and apply on real time application.</p> <p>Arivukkarasu.K-II CSE-Appling AI for road safety is an useful topic on which the future generation depends on which will help to reduce the accident happening frequently.</p>	

Prepared By

Reviewed / Forwarded by

Signature:
Name &
Designation:

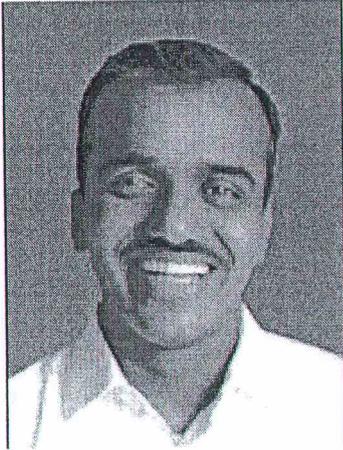
Jayanthi E
Mrs. Jayanthi E
AP/ECE 2/6/23

S. Manju
Dr. I. Manju
Head-IQA/ECE

Date: 02.03.2022

Ushini

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Anbumani Subramanian

Principal Engineer at Intel

Notable Contributions

- India Driving Dataset (IDD), 2018 [Video]
- Hand-pose recognition with depth camera, 2010
- Omni-directional vision system for the world's first autonomous boat, 2006

Service

- Co-chair, AutoNUE workshops - ECCV 2018, ICCV 2019, CVPR 2021
- Invited talks - SPCOM 2020, STAS 2021, ITSIVUE 2021

Expertise & Interest

- Computer vision, image analysis, image processing
- Machine learning, pattern recognition
- Human-computer interaction

Work

- 2021- INAI - Applied AI Research Center, IIIT-Hyderabad
- 2020- Principal Engineer, Intel
- 2013-20 Lead Architect, Intel
- 2010-13 Senior Research Scientist, Hewlett-Packard Labs
- 2006-10 Research Scientist, Hewlett-Packard Labs
- 2005-06 Postdoctoral Associate, Virginia Tech
- 2001 Member of Technical Staff (Intern), Rockwell Scientific
- 1996-99 Software Engineer, IBM

Education

- Ph.D. Virginia Tech, Blacksburg, VA, USA - 2005
- M.S. Virginia Tech, Blacksburg, VA, USA - 2001
- B.E. Bharathiar University (Coimbatore Institute of Technology), Coimbatore, India - 1996


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Patents

10

Publications

V. Gupta, A. Subramanian, C.V. Jawahar, R. Saluja, "CueCAN: Cue-driven Contextual Attention for Identifying Missing Traffic Signs on Unconstrained Roads", **Proc. of the IEEE Intl. Conf. on Robotics and Automation (ICRA)**, June 2023

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D. S. Thakur, M. Advani, S. Velmurugan, A. Subramanian, N. Chakrabarty and A. Goel, "**Artificial Intelligence (AI) based Assessment of Behavior of Bus Drivers in Nagpur city (India) - A Case Study**", Proc. of Recent Advances In Traffic Engineering (RATE), Special Issue in Transportation Letters : The International Journal of Transportation Research, SVNIT, Nov. 2022 [Best Paper Award]

S. Dokania, A. Subramanian, M. Chandraker, and C. V. Jawahar. "**TRoVE: Transforming Road Scene Datasets into Photorealistic Virtual Environments**", European Conference on Computer Vision (ECCV), Oct. 2022 [arXiv]

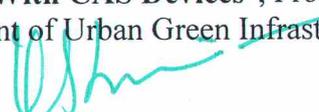
D. Singh, S..N. Rai, K.J. Joseph, R.Saluja, V.N. Balasubramanian, C. Arora, A. Subramanian and C.V. Jawahar, "**New Objects on the Road? No Problem, We'll Learn Them Too**", International Conference on Intelligent Robots and Systems (IROS), Oct. 2022

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D. Singh, A. Rahane, A. Mondal, A. Subramanian, and C.V. Jawahar, "**Evaluation of Detection and Segmentation Tasks on Driving Datasets**" in B. Raman, S. Murala, A. Chowdhury, A. Dhall, P. Goyal (eds) Computer Vision and Image Processing. CVIP 2021. Communications in Computer and Information Science, vol 1567. Springer, July 2022 [Abstract]

A. Goyal, D. Agarwal, A. Subramanian, C.V. Jawahar, R.K. Sarvadevabhatla and R. Saluja, "**Detecting, Tracking and Counting Motorcycle Rider Traffic Violations on Unconstrained Roads**", 5th Workshop and Prize Challenge: Bridging the Gap between Computational Photography and Visual Recognition (UG2+), IEEE CVPR, June 2022 [arXiv]

D. S. Thakur, M. Advani, A. Subramanian, S. Velmurugan and A. Goel, "**Identifying Pedestrian Risk Zones from the Bus Fleet Equipped With CAS Devices**", Proc. of the Intl. Virtual Conf. on Smart and Sustainable Development of Urban Green Infrastructure in India and Canada (SSDUGI), Mar. 2022


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P. Garg, R. Saluja, V.N. Balasubramanian, C. Arora, A. Subramanian, and C.V. Jawahar, "**Multi-Domain Incremental Learning for Semantic Segmentation**", IEEE Winter Conf. on Applications of Computer Vision (WACV), Jan. 2022 [arXiv]

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A. Bahety, R. Saluja, R.K. Sarvadevabhatla, A. Subramanian, and C.V. Jawahar, "**Automatic Quantification and Visualization of Street Trees**", Indian Conference on Computer Vision, Graphics and Image Processing - ICGIP 2021 [arXiv]

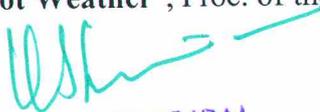
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K Agrawal, A Subramanian, "**Enhancing Object Detection in Adverse Conditions using Thermal Imaging**", Proc. of Cognitive Vehicles Workshop, IROS, Nov. 2019 [arXiv]

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P. Suryanarayan, A. Subramanian, D. Mandalapu, "**Dynamic Hand Pose Recognition Using Depth Data**", 20th Intl. Conf. on Pattern Recognition (ICPR), Istanbul, Turkey, August 23-26, 2010. [[IEEEExplore](#)]

D. Gelb, A. Subramanian, K. Tan, "**Augmented Reality for Immersive Remote Collaboration**", HP Labs Technical Report, [HPL-2010-201](#), 2010

H. Jain, A. Subramanian, "**Real-time Upper-body Human Pose Estimation using a Depth Camera**", HP Labs Technical Report, [HPL-2010-190](#), 2010

G.M. Hegde, A. Subramanian, "**Action Bubble Metaphor for Gestural Interaction using Depth Camera in a Multi-user Scenario**", HP Labs Technical Report, [HPL-2010-128R1](#), 2010

A. Subramanian, "**Smart Copy – A Method to Import Information directly from Physical Documents and Artifacts using a Camera**", Research Disclosure, No. 544027, pp. 880 – 882, Aug. 2009

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A. Subramanian, X. Gong, J. N. Riggins, D.J. Stilwell, C.L. Wyatt, "**Shoreline Mapping using an Omni-directional Camera for Autonomous Surface Vehicle Applications**", (OCEANS), Boston, MA, pp. 1-6, September, 2006 [[IEEEExplore](#)]

A. Subramanian, L.R. Iyer, A.L. Abbott, A.E. Bell, "**Segmentation and Range Sensing Using a Moving-aperture Lens**", Machine Vision and Applications, vol. 15(1), pp. 46-53, October, 2003 [[Springer](#)]

A. Subramanian, L.R. Iyer, A.L. Abbott, A.E. Bell, "**Segmentation and Range Sensing Using a Moving-aperture Lens**", Proceedings of the 8th IEEE Intl. Conf. on Computer Vision (ICCV), vol. 2, pp. 500-507, 2001 [[IEEEExplore](#)]

Awards/Honors

- [2022] Distinguished Alumni of 1996, Coimbatore Institute of Technology - March 2022
- [2005] Outstanding Research Achievement, Annual Graduate Research Symposium, Virginia Tech - March 2005
- [2005, 2001] Honorable Distinction for Innovation in Research, Annual Graduate Research Symposium, Virginia Tech - March 2005 (PhD) & March 2001 (MS)
- [1996] Best Outgoing Student, Dept. of Electrical and Electronics Engineering, Coimbatore Institute of Technology - March 1996

Post-doctoral and Graduate Research

Some information about his past (pre-2007) research work can be found on his [archived webpage](#).

Others/Interests

Senior Member, IEEE

Black belt - Tae Kwon Do (Moo Duk Kwan)

[Kalarippayattu](#)

[Project Madurai](#)



PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Siruseri, Chennai 603 103



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ACADEMIC YEAR 2022-2023

REPORT

On

**TWO DAYS WORKSHOP " DRONE DESIGNING BY NASA FLIGHT
CONTROLLER"**

PREPARED

By

Mr.M.ASHOK KUMAR AP/ECE

PRINCIPAL

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - IT Park,
Siruseri, Chennai - 603 103



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DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

To

The Principal
MSAJCE
Chennai

Ami
28/11/22

Respected Sir,

Sub: Two days Workshop on Drone Designing by NASA Flight Controller - Reg

With reference to the above subject, we are interested to conduct the workshop "Drone Designing by NASA Flight Controller" for I Year and II year Students on 02/12/2022 & 03/12/2022. This will be useful for the students to develop their technology skills. I kindly request you to give permission to conduct the workshop.

Thanking You

Yours Sincerely

I. Manju

(Dr.I.MANJU)

HoD/ECE

Place: MSAJCE

Date: 28/11/2022

[Handwritten signature in blue ink]

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No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - II Park
Siruseri, Chennai - 603 103.



CIRCULAR

Date: 30.11.2022

This is to inform all First and Second Year students that ““Drone Designing by NASA Flight Controller” will be held on 02/12/2022 & 03/12/2022 at Room No.114. In this regard, all First and Second Year students are kindly instructed to register in this workshop and get benefited.

For Registration Contact: Mr.M.Ashokkumar AP/ECE
9884469962

Copy to

- ECE Department
- IQAC
- S&H HoD (For Students Circulation)
- Notice Board


HOD-ECE



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Siruseri, Chennai - 603 103.



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

CIRCULAR

Date: 30.11.2022

It is hereby informed that the following faculty members are allotted to conduct workshop in "Drone Designing by NASA Flight Controller" on 02/12/2022 & 03/12/2022. All are requested to present Room No.114 for the smooth conduction of program.

Committee List:

S.No	Name of the faculty	Name of the committee
1.	Dr.I.Manju	Program Organizing Committee
2.	Mr.M.Ashokkumar	
3.	Mrs.S.Priyadharshini	
4.	Dr.M.Sivakumar	Discipline Committee
5.	Mr.M.Kamarajan	
6.	Mrs.E.Jayanthi	
7.	Dr.G.Sivaranjani	Reception Committee
8.	Mrs.S.Anusuya	
9.	Mrs.S.Sonadevi	
10.	Mr.P.Gopisivaraman	Hospitality Committee

Copy to

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- IQAC
- Notice Board

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Siruseri, Chennai - 603 103

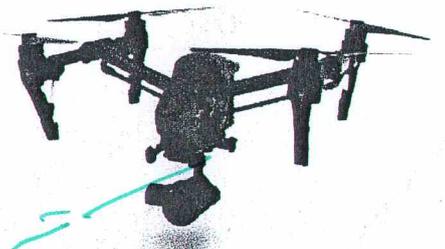
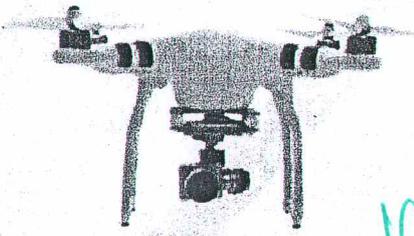
HOD ECE



MOHAMED SATHAK
A.J. COLLEGE OF ENGINEERING
 Siruseri IT Park, OMR, Chennai - 603 103.



**DEPARTMENT OF ELECTRONICS
 AND COMMUNICATION ENGINEERING**
 &
CENTER FOR UAV / DRONE



Ashok
 PRINCIPAL

Jointly organises the 2 days workshop
 on

**DRONE DESIGNING BY
 NASA FLIGHT CONTROLLER**

VENUE: ROOM NO: 402, 3rd Floor
 On

2ND & 3RD DECEMBER 2022

Dr.I.Manju
Head - IQAC & HoD/ECE

Convenor

Mr.M.Ashokkumar
AP/ECE

Coordinator



Drone Workshop - Registration Details

Timestamp	Email Address	NAME	REGISTER NO/ROLL NO	MOBILE NUMBER	YEAR	DEPARTMENT	Willingness to attend the workshop
11/25/2022 21:59:49	yuvaraj46sanjay46@gmail.com	S. Yuvaraj	43	7603864283	2022-2026	ECE	Drone
11/27/2022 13:17:12	shankarmurugesan3@gmail.com	Amudeshwaran.s	311820106005	7395969881	3	ECE	Drone
11/27/2022 14:16:47	shahrukhhakrudeen268@gmail.com	Shahrukh Fakrudeen K	311820106021	8778747044	2020 - 2024	ECE	Drone
11/27/2022 14:21:02	ssahmad1662@gmail.com	Ahmad Syed Semar	311820106004	7604932100	3	ECE	Drone
11/27/2022 16:18:54	kishores62003@gmail.com	S.kishore	311820106011	9150464391	3rd	ECE	Drone
11/28/2022 6:07:22	madhi25042002@gmail.com	Madhivanan.R	311820106013	7397264522	Third	ECE	Drone
11/29/2022 13:50:08	adimanickam36@gmail.com	M.HarishAdithya	3922041	9047527306	1	EEE	Drone
11/29/2022 14:38:27	maheswaranre@gmail.com	R. Maheswaran	311821106016	9884312443	2nd year	Ece department	Drone
11/29/2022 14:45:26	nafeesgafoor2@gmail.com	A.Nafees	3810560	07339137021	2022	It	Drone
11/29/2022 14:47:36	asikarsath11@gmail.com	K.MOHAMED ASIK	3810383	6382555230	2022	B.tech IT	Drone
11/29/2022 14:53:13	sankaranarayanan212005@gmail.com	S.SANAKRA NARAYANAN	3	9176431968	1st year	CSE	Drone
11/29/2022 14:55:27	customizerig@gmail.com	MITHRAN	11	7358651427	2022	Artificial intelligence and data science	Drone
11/29/2022 14:56:44	idrees4studies@gmail.com	Idrees.M	3830823	9092090202	1st year	B.Tech CSBS	Drone
11/29/2022 14:57:16	darveshnagori@gmail.com	Darvesh ahmed	076	9597016925	2022	Artificial intelligence and data science	Drone
11/29/2022 14:58:17	mohammedirfan98404@gmail.com	Mohammed irfan	3818615	9677026685	2022-20026	Artificial intelligence	Drone
11/29/2022 14:59:54	rjeevesh18@gmail.com	Jeevesh. R	02	8778226500	1st year	CSE	Drone

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11/29/2022 15:00:40	ananthavams24@gmail.com	SATHIS KUMAR . V	4	8248344049	1 st year	CSE	Drone
11/29/2022 15:00:41	batmanhari1482004@gmail.com	Hari Haran.G	1	9025196264	1st year	B.E CSE	Drone
11/29/2022 15:02:51	mubais367@gmail.com	J. Mohamed ubais	730567	07305674100	First year	B. E. MECH	Drone
11/29/2022 15:04:38	mohamedirfan00017@gmail.com	J.mohamedirfan	3787648	6380535386	2022-2026	Mechanical department	Drone
11/29/2022 15:06:26	sundarmohan830@gmail.com	MOHANA sundareshwar	4131109	6374155378	2022-2026	MECHANICAL ENGINEERING	Drone
11/29/2022 15:07:30	niyassmart0007@gmail.com	Mohamed Niyas	3998656	9677071248	2022	Civil	Drone
11/29/2022 15:18:19	ajashameda@gmail.com	Ajas Ahmed.F	3814715	9150202738	2022 to 2026	ECE	Drone
11/29/2022 15:26:25	fazilalif026@gmail.com	Mohamed alif fazil	3832561	9087668883	1	ECE	Drone
11/29/2022 15:27:56	vasanthezhumalai3636@gmail.com	E. Vasanth Kumar	4259595	9360513636	1 year	ECE	Drone
11/29/2022 15:30:05	yeshwanthji576@gmail.com	YESHWANTH M	22UGEC42	9789079320	1st year	ECE	Drone
11/29/2022 15:30:44	halithmohamed950@gmail.com	Mohamed Halith A	Not given	7010042463	1st year	Be EEE	Drone
11/29/2022 15:32:06	varisasi206@gmail.com	MOHAMED ASIF.A	3783208	8778910658	1st year	AI&DS	Drone
11/29/2022 15:33:00	jaffarsaadiq47@gmail.com	Mohammed jaffar saadiq	12456	9080326206	1 St year	AI&ds	Drone
11/29/2022 15:34:37	imaxmajeed1947@email.com	Abdul Majeed .H	3760574	9360664561	First year	B.tech IT	Drone
11/29/2022 15:36:42	muralihari437@gmail.com	M.Hari	311821114006	9600155410	2	Mechanical	Drone
11/29/2022 15:38:32	ibharani59@gmail.com	Bharanidaran.I	22UGEC04	9551457962	First year	Ece	Drone
11/29/2022 15:42:01	bs8881516@gmail.com	S MUHAMMAD SABIR	22UGEC19	9087325801	1 st	B.E ECE	Drone
11/29/2022 15:45:08	prasad.n2911@gmail.com	PRASAD N	311821105304	8618766471	2nd year	EEE	Drone
11/29/2022 15:47:54	monisri4321@gmail.com	Harini. K	311821104012	7550137368	2 nd year	Computer science engineering	Drone

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11/29/2022 16:04:02	anizmohamed186@gmail.com	H.Mohamed Aniz	311821104026	8015229790	2year	B.E CSE	Drone
11/29/2022 16:13:20	varsashri@gmail.com	SHRIVARSA	6	09840223769	2022-2026	B.TECH IT AI&DS	Drone
11/29/2022 16:22:46	santhoshra8680@gmail.com	R. SANTHOSH RAJA	35	6382626077	1 st year	ECE	Drone
11/29/2022 16:28:37	dhanushadithya003@gmail.com	Dhanush Adithya S	311821114003	7845984211	2nd	Mechanical	Drone
11/29/2022 16:56:47	rs6908426@gmail.com	RESHMA S	None	8015835857	2022	ECE	Drone
11/29/2022 17:01:56	shaiksalman770@gmail.com	Shajahan.E	&	7639251865	2022-2026	ECE	Drone
11/29/2022 17:03:55	Kriyas2005@gmail.com	Riyas	3855155	9600516151	1st year	ECE	Drone
11/29/2022 17:35:38	hfa2022005@gmail.com	S HASAN FAZIL ANSARI	11	9840040325	1st yr	Ece	Drone
11/29/2022 18:28:12	shareefaman68@gmail.com	Shahid Sharif B	4258029	7397234549	First year	CSE	Drone
11/29/2022 18:30:27	mithilesh16vinayak@gmail.com	Mithilesh vinayak	4101234	8148461680	First	ECE	Drone
11/29/2022 18:44:25	reckfamily03@gmail.com	KARANRAJ R	3985973	9080836400	2022	Electronics and communication engineering	Drone
11/29/2022 18:55:30	nihalfarook03@gmail.com	Nihal F	19	+91 98409 13480	1st yr	Ece	Drone
11/29/2022 19:30:19	sharongiftyk@gmail.com	Sharon gifty k	7777	9342299207	1 st	BSCS	Drone
11/29/2022 19:55:30	mohammedriyaz898@gmail.com	Mohammed Riyaz	1122222	8838090903	1st	Artificial intelligence and data science	Drone
11/29/2022 20:13:21	dharshinikumar1412@gmail.com	U.PAVITHRA	-	7395873193	1 st	B.TECH IT	Drone
11/29/2022 20:31:43	prpooja18@gmail.com	P.R.POOJA	3812966	8667409270	2022-2026	Btech-IT	Drone
11/29/2022 20:56:50	jaivinoth605@gmail.com	J Ganesh	4257044	6369801204	2022-2026	Btech it	Drone
11/29/2022 20:59:04	mohamed.kaamil.ameen@gmail.com	Mohamed Kaamil Ameen	3869196	9150578555	1st year	Csc	Drone

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No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - II Park,
Siruseri, Chennai - 603 103

11/29/2022 21:00:36	moha.abdulkalam2004@gmail.com	N.Mohamed Abdul Kalam	-	824280500	2022	CSBS	Drone
11/29/2022 21:49:09	sreenithya120@gmail.com	Nithyasree	311821205041	8939562719	2	It	Drone
11/29/2022 21:59:23	rahmantgm0710@gmail.com	Rahman Khan. K	4143935	9080931322	2022	Civil	Drone
11/29/2022 22:21:57	nagarajrace001@gmail.com	Nagaraj . B	311821105010	9884985137	2 year	EEE	Drone
11/30/2022 4:27:21	anbuking3456@gmail.com	P.sharmi sri	3786935	7305809191	2022	B.tech it	Drone
11/30/2022 6:51:26	shaileshjan29@gmail.com	SHAIKESH KUMAR P	311821114017	7904637597	2nd	Mechanical	Drone
11/30/2022 7:27:16	jeroseashiyar6@gmail.com	J.JEROSE ASHIYAR	3867538	9042698556	2022-2023	B.E ECE	Drone
11/30/2022 7:40:17	ivyssathish@gmail.com	J.SATHISH KUMAR	4273658	6380866860	First year	ECE	Drone
11/30/2022 7:56:33	na863884@gmail.com	A. MOHAMMED NAZMI	--	8667719613	2022	CSE	Drone
11/30/2022 8:05:26	mirfak226@gmail.com	J. Mohamed irfak	3843967	6381353800	1st year	CSBS	Drone
11/30/2022 9:39:01	obmfahil@gmail.com	Syed Juma fahil	311821104053	9047261765	2 nd year	Cse	Drone
11/30/2022 10:40:49	abdallahas5445@gmail.com	A.Abdalah	22UGCS02	7397594410	1	CSE	Drone
11/30/2022 10:41:09	buharim347@gmail.com	A.MOHAMMED BUHARI	22UGCS28	9566254366	2022-2026	BE CSE	Drone
11/30/2022 10:52:31	dhanushkavitha32@gmail.com	S. Dhanush	4134953	8610307164	2022	ECE	Drone
11/30/2022 12:56:12	Harinimanikandan@gmail.com	M.Harinisri	22UGCS17	8925005951	2022	CSE	Drone
11/30/2022 13:44:10	msudhaya1129@gmail.com	S.UDHAYA BHARATHI	No	8754516737	1st year	EEE	Drone
11/30/2022 13:49:12	najmi130505@gmail.com	A. MOHAMMED NAZMI	22UGCS35	8667719613	1	CSE	Drone
11/30/2022 14:38:29	haazimsafeer@gmail.com	R VISHVA	0000000	9600623264	1 year	ECE	Drone
11/30/2022 14:41:32	ahamedsuhail765@gmail.com	Ahmed Suhail	3993863	9841648252	1st year	ECE	Drone

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Siruseri, Chennai 603 103

11/30/2022 14:44:40	rafikbasha41@gmail.com	R.Siraj basha	4050814	8098264065	First year	ECE	Drone
11/30/2022 14:46:03	nilofarmisha1305@gmail.com	Nilofarmisha. A	24	8122929308	2022-2023	ECE	Drone
11/30/2022 14:49:47	nnknatrajan@gmail.com	Naren kumar.N	4273912	9159477348	1	ECE	Drone
11/30/2022 15:04:01	basharathulla17@gmail.com	Basharathulla	311820106006	+918939507798	3	ECE	Drone
11/30/2022 22:02:05	sanjay20000015558@gmail.com	Sanjay kumar B	134253	9677282876	2022-2026	It	Drone
12/1/2022 12:03:59	suriyabalaji373@gmail.com	S.SURIYABALAJI	22UGCSBS20	9962434506	2022-2026	CSBS	Drone
12/1/2022 15:05:00	nivethaonline@gmail.com	A.S.Nivethitha	37	9884120322	2022	CSE	Drone
12/1/2022 15:14:29	gurushithpriyan@gmail.com	Gurushith Priyan. V	-	9150215844	1st	ECE	Drone
12/1/2022 21:32:34	suhailahamed240@gmail.com	Suhail Ahamed T	22UGCS43	7550392490	1st year	Cse	Drone
12/1/2022 21:48:32	nityasrielumalai2004@gmail.com	E.Nityasri	25	8248031690	2022	Ece	Drone
12/2/2022 1:21:44	harikarthik123123@gmail.com	Karthik. S	1234	6381697993	2022	ECE	Drone
12/2/2022 6:43:18	sanjaymano777@gmail.com	SANJAY V	311821106028	8925462924	2	ECE	Drone

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 Siruseri, Chennai 603 103



Workshop on Drone Designing by NASA Flight Controller
Attendance Sheet

Date : 02.12.2022 & 03.12.2022

Venue :- Ground Floor
Room No.114

S.No	Name of the Student	Year/ Department	Day 1	Day 2	
1	R.Karanraj	I/ECE	R.karaj	R.karaj	908083640
2	Dhanush.S	I/ECE	S. Dhanush	S. Dhanush	86103071
3	Mohamed Ali Fazil	I/ECE	Mohamed Ali Fazil	Mohamed Ali Fazil	90576688
4	Reshma	I/ECE	S. Reshma	S. Reshma	8015835
5	Iniyaa. J	I/ECE	Iniyaa. J	Iniyaa. J	988471134
6	Yuvaraj	I/ECE	Yuvaraj	Yuvaraj	76038845
7	Ajas	I/ECE	Ajas	Ajas	915020293
8	Hasan Fazil Ansari	I/ECE	Hasan Fazil Ansari	Hasan Fazil Ansari	9840040
9	Nihal	I/ECE	Nihal.F.S	Nihal.F.S	98409834
10	Mithilash Venayak A	I/ECE	Mithilash Venayak A	Mithilash Venayak A	514846162
11	Baranidharan	I/ECE	Baranidharan	Baranidharan	96514579
12	Sabir R. SIRAJBARHA	I/ECE	R. SIRAJBARHA	R. SIRAJBARHA	809828406
13	Santhosh	I/ECE	Santhosh	Santhosh	63826261
14	Yashwanth	I/ECE	Yashwanth	Yashwanth	978907932
15	R. Vishwa	I/ECE	R. Vishwa	R. Vishwa	960062320
16	Vasanthkumar	I/ECE	Vasanthkumar	Vasanthkumar	936051363
17	Suhail	I/ECE	Suhail	Suhail	984164825
18	Siraj SATHANMED SABIR	I/ECE	Siraj SABIR	Siraj SABIR	908732586
19	Nilofar Nisha.A	I/ECE	Nilofar Nisha.A	Nilofar Nisha.A	81229293
20	E.Nitya Sri	I/ECE	E.Nitya Sri	E.Nitya Sri	824803169
21	Mohamed Kaamil	I/CSE	Present	ABSENT	
22	Mohamed Nazmi .A	I/CSE	Nazmi	Nazmi	8667719613
23	Abdalah .A	I/CSE	Abdalah .A	Abdalah .A	7397594410
24	A.S.Nivethitha	I/CSE	A.S.Nivethitha	A.S.Nivethitha	988420322
25	M.Harinisri	I/CSE	M.Harinisri	M.Harinisri	89250059
26	S.Sankara Narayanan	I/CSE	S.Sankara Narayanan	S.Sankara Narayanan	9176431968
27	Jeevesh.R	I/CSE	Jeevesh.R	Jeevesh.R	977822650
28	Sathis Kumar .V	I/CSE	V. Sathis Kumar	V. Sathis Kumar	824834404
29	Hariharan.G	I/CSE	G. Hariharan	G. Hariharan	902519625
30	A.Zakir Hussain	I/CSE	Zakir, A	Zakir, A	9884764832

[Signature]
PRINCIPAL



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

(Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

Date: 06.12.2022

Budget For Two days workshop " Drone Designing by NASA Flight Controller" an Boot Camp "IoT and Robotics" on 2nd and 3rd December 2022

S.No	Expenditure	Amount
1.	Trainer Remuneration	4 X 5000 =Rs.20,000 /-
2.	Poster	Rs.120 /-
3.	Breakfast & Lunch	Rs.2500 /-
4.	Participation Certificate	25 X 112 = Rs.2800 /-
Total		Rs.25,420/-

Coordinators




(Mr.M.Ashokkumar AP/ECE) & (Mrs.Piriyadharshni AP/ECE)
PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No.34, Rajiv Gandhi Road, (OMRI) SIPCOT II Park,
Siruseri, Chennai 605 03

Convenor


(Dr.I.Manju)
HoD/ECE



BUDGET DETAILS

7/12/2022
Chennai

From

S Priyadharsini, AP/ECE &
M Ashok Kumar AP/ECE
Department of ECE
MSAJCE

To

The Principal
MSAJCE

Permitted
A
7/12/22

Respected Sir,

We have conducted 2 days workshops
(i) Robotics and IOT & (ii) Drone Workshop
on 2/12/22 & 3/12/22 for 1st and 2nd
year students. We collected the Rs 300 per
participants. Totally 112 students participated
Total amount collected is 33,600/-, we need
to pay 20,000/- for the trainers of workshop.

No. of participants	-	112
Fee per student	-	300
Total amount	-	33,600/-
Trainer fees	-	20,000/-

Kindly approve the payment of
the trainer fee to the trainer account.

Submitted
to principal
for approval
7/12/22
Thank you,

[Signature]
PRINCIPAL

Yours faithfully
Omishiumi



MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

Sponsored by : Mohamed Sathak Trust,
34, Rajiv Gandhi Road, (OMR), IT Highway Siruseri, Egattur, Chennai - 603 103.

CASH VOUCHER

Date : 06/12/2022

Debit Food Expenses (Breakfast & Lunch) A/c
the sum of Rupees Two thousand five hundred only
being Two days workshop on Drone and Robotics, from
..... 02nd & 3rd december 2022

Rs. 2500/-

Passed for Payment

[Signature]
06/12/22
Prepared by

Principal

[Signature]
Administrative Officer

[Signature]
Receiver's Signature

[Signature]

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MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
No. 34, Rajiv Gandhi Road, (OMR) SIRUSERI - 603 103.
Siruseri, Chennai - 603 103.

STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: *Mechanical*

Academic Year: *2022-2026*

Name of the Student	<i>J. Mohamed ubais</i>
Year/Sem	<i>Ist year</i>
Name of the Guest	<i>Jegatheesh & Vishal</i>
Name of the Institution/ University/ Industry/R&D Organization.	<i>Village Technology</i>
Event	GL/Seminar/Workshop/Conference/Others
Date of Event	<i>02/10/22 to 3/12/22</i>
Was the session Useful?	<i>Yes</i>
Expert Interaction	Excellent / Good / Average
Whether the lecture was related to Subject ? If yes mention the subject	
Brief Summary/Report of the topic	<i>Drone:- Its very useful us, they teach how to control drone and how to build it, it gives a new experience and idea Thanking you</i>
General Remarks	<i>No Remarks.</i>

[Signature]
Signature of Student

STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: CSBS

Academic Year: 2022-2026

Name of the Student	Suriya balaji S
Year/Sem	1 st year
Name of the Guest	Mr. Jagadheeswaran, Mr. Vishal
Name of the Institution/ University/ Industry/R&D Organization.	Village Technology
Event	GL/Seminar/Workshop/Conference/Others
Date of Event	2/12/22 - 3/12/22
Was the session Useful?	Yes
Expert Interaction	Excellent / Good / Average
Whether the lecture was related to Subject? If yes mention the subject	Yes → computer, physics
Brief Summary/Report of the topic	First day we learned about the machine involved in making of drones. And the next day we flew a drone ourselves
General Remarks	Great experience, had fun!

S. Suriya Balaji S
Signature of Student

Format No: FB 01

Rev. No : 1.0

Rev. Date : 04.01.21

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Siruseri, Chennai - 603 103

STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: CSBS

Academic Year: 2022 - 2026

Name of the Student	Sharon gifty .k
Year/Sem	1st year
Name of the Guest	Mr. Jagadheeshwaran , Mr. Vishal .
Name of the Institution/ University/ Industry/R&D Organization.	Village technology -
Event	GL/Seminar/Workshop/Conference/Others
Date of Event	2/12/22 - 3/12/22
Was the session Useful?	Yes .
Expert Interaction	Excellent / Good / Average
Whether the lecture was related to Subject ? If yes mention the subject	Yes ! It was related to physics , mechanics , computer .
Brief Summary/Report of the topic	First day we acknowledged & learned about the parts and machines involved and we done a workshop on making self created drone . Next day we learned to how to fly the drone .
General Remarks	Was a good experience , it would be great if it was explained with board & stuffs

Format No: FB 01

Rev. No : 1.0

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Sriperumbudur, Chennai - 603103

Signature of Student

Rev. Date : 04/01/21

STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: *ECE*

Academic Year: *2022-26*

Name of the Student	<i>E-NITYASRI</i>
Year/Sem	<i>Ist / Ist Sem</i>
Name of the Guest	<i>Mr. JAGADESHVAREN AND Mr. VISHAL</i>
Name of the Institution/ University/ Industry/R&D Organization.	<i>MOHAMED SATHAK AJ COLLEGE OF ENGINEERING</i>
Event	<i>GL/Seminar/Workshop/Conference/Others</i>
Date of Event	<i>02-12-22 - 03-12-22</i>
Was the session Useful?	<i>YES</i>
Expert Interaction	<i>Excellent / Good / Average</i>
Whether the lecture was related to Subject? If yes mention the subject	<i>Yes The lecture was related to the Subject. the application computers, physics</i>
Brief Summary/Report of the topic	<i>Topic is about Drone technology Drones are used in the various field Such as agriculture, medical education. purpose and we learnt to how to drive the drones and it controls.</i>
General Remarks	<i>Good.</i>

[Signature]
Signature of Student

Format No: FB 01

Rev. No : 1.0

[Signature]

Rev. Date : 04.01.21

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Sivur, Chennai - 603 103

STUDENT FEEDBACK ON GL / SEMINAR / WORKSHOP

Department: CSE

Academic Year: 2022-2026

Name of the Student	V. Sathis kumar
Year/Sem	I st year
Name of the Guest	Mr. Jagadheeswaran, Mr. Vishal
Name of the Institution/ University/ Industry/R&D Organization.	Village Technologies
Event	GL/Seminar/Workshop/Conference/Others
Date of Event	2.12.2022 - 3.12.2022
Was the session Useful?	Yes, The session is very useful
Expert Interaction	Excellent / Good / Average
Whether the lecture was related to Subject? If yes mention the subject	Yes, the lecture was related to the subject, the application computers, Physics.
Brief Summary/Report of the topic	<p><u>Drone Technology:</u></p> <p>The topic is about Drone Technology nowadays the usage of Drones are upgraded, the drones are used in the various field such as agriculture, medical, education, purpose and we learnt to how to drive the drones and it controls.</p>
General Remarks	

V. Sathis kumar
Signature of Student

**WORKSHOP REPORT ON “ Drone Designing by NASA Flight Controller”**

Department:	ECE - MSAJCE, Chennai	
Type of Event:	Workshop	
Event Title:	DRONE DESIGNING BY NASA FLIGHT CONTROLLER	
Date & Time:	02/12/2022 & 03/12/2022	
Venue / Mode(Platform):	MSAJCE-Ground Floor Room No:114 /Physical	
Convenor:	Dr.I.Manju, Head/IQAC & HoD/ECE	
Coordinator:	Mr.M.Ashokkumar, AP/ECE	
Details of Participants:	Around 57 Participants (Students from 1st Year & 2nd Year ECE)	
Profile of the Resource Person	Name of the Resource Person	Mr. Balaji Varadhan - Sr.Trainer Mr. Jagadeesh - Aeromodelling Instructor Mr. Vishal - Trainer
	Organization	Village Technology School, Chennai.
	Contact No	8778262286
Write-up on Workshop Event	<p>The goal of the workshop is to create awareness about Drone Technology and students will be aware of concept, mechanism of Aerodynamics, Application of UAV in Industry 4.0, Electronics & components Introduction for UAV's, Real Time Drone Designing using NASA board.</p> <p>Students will be able to Design, fabricate and program their own Drone, Pilot Testing, Students will be able to participate in National/International Competitions.</p> <p>The resource person given detailed explanation about Drone technologies with Hands-on Experience.</p>	

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DEPARTMENT OF ELECTRONICS
AND COMMUNICATION ENGINEERING

CENTER FOR UAV / DRONE



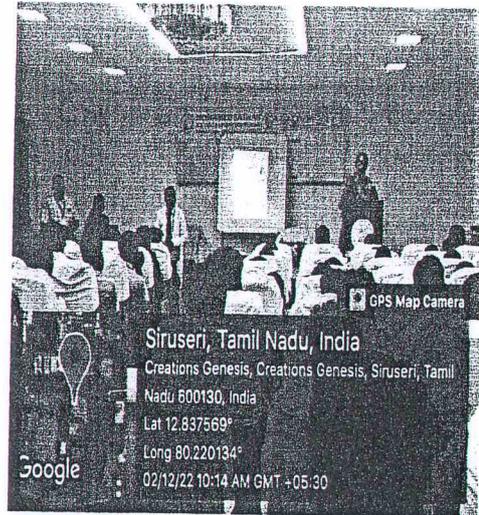
Jointly organises the 2 days workshop on

DRONE DESIGNING BY NASA FLIGHT CONTROLLER

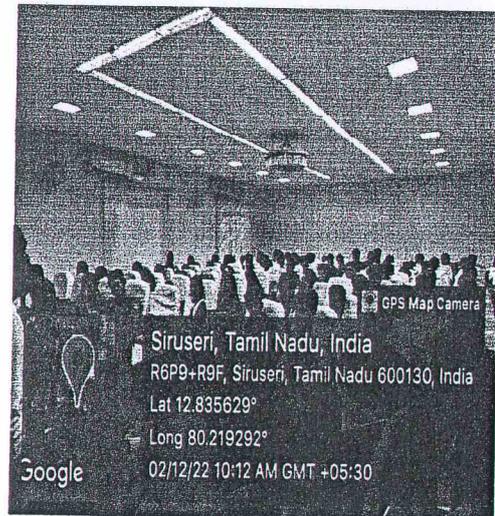
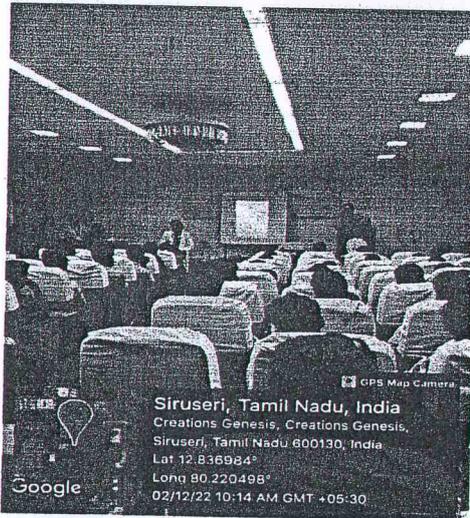
VENUE: ROOM NO. 402, 3rd Floor
On
2nd & 3rd DECEMBER 2022

Dr. I. Manju
Head - IQAC & HOD/ECE
Coordinator

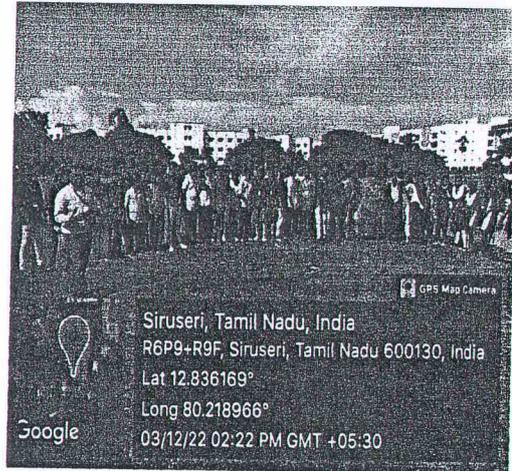
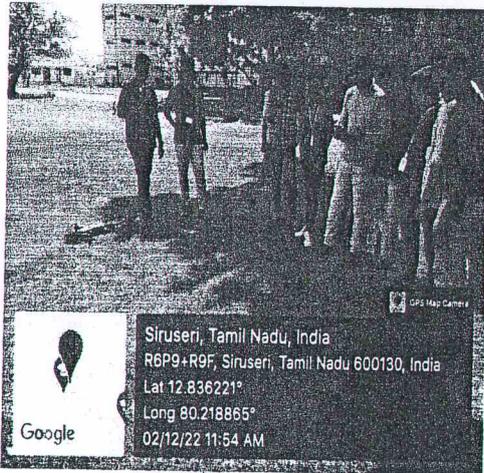
Mr. M. Ashokkumar
AP/ECE
Coordinator



Photographs of the Workshop



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Siruseri, Chennai - 603 103



Feedback from the participants

The workshop contents are really informative.
Nice and informative workshop.
Very useful workshop.
We will learnt to Design, fabricate and program the Drone.
Good Experience.

Signature:

Name & Designation:

Mr.M.Ashokkumar
AP/ECE

Date:

05.12.2022

Approved By

Dr.I.Manjitha
Head/IQAC & HoD/ECE

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Trainer Profile

Mr. BalajiVaradhan comes with a rich experience of **15 years** in the field of **Training and Development**. A voracious reader and a free thinker, he is a professional with policies, principles, vision, philosophy, and ethics. He values human relations and cherishes it a lot. He holds a **Master's degree in Business and Administration** and is a certified support professional.

His persistent thirst of knowledge and **Research & Development** experience turned him into an expertise in **Robotics, IoT, Drone, Aeromodelling and 3D printing**. He is an active Social Entrepreneur; believes in empowering Education through various CSR activities, he is the **CEO & Co-Founder of Village Technology School**, **Co-Founder & Vice President of Robotics Foundation of Tamilnadu**. **Vice Chairman of BYST MAP Committee**.

BalajiVaradhan is a self-made first generation business owner he has attained great heights by his hard work and ethical business practices. He has trained almost **7000+** students in predominant Institutions. He has conducted free awareness programs for Govt School Students on 21st century technologies like Robotics, Drones & AI.

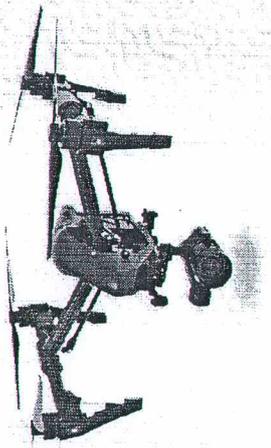
BalajiVaradhan has been driven by one fundamental business idea to deliver new innovative solutions for the evolving challenges. He firmly believes that businesses have a deep responsibility to employ ethical, fair and ecologically sensitive business practices, and to develop a healthy society, a strong foundation of Education must be laid. He utilizes his self-learnt expertise and excellence in establishing International Standard of Education and competency.



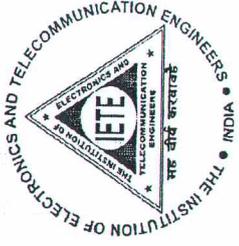
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Siruseri, Chennai - 603 103

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CERTIFICATE OF COMPLETION



This is to certify that Mr. / Ms. Maheśwaran R I ECE student of
Mohamed Sathak A J College of Engineering, Chennai has successfully
completed the two days workshop on “**DRONE DESIGNING BY NASA FLIGHT
CONTROLLER**” from 02nd December 2022 to 03rd December 2022 conducted by
Centre for UAV/Drone, Department of Electronics and Communication
Engineering.

Signature of Mr. M. Ashokkumar

Mr. M. Ashokkumar
Coordinator

Signature of Dr. I. Mahju

Dr. I. Mahju
Head - IQAC & HoD/ECE

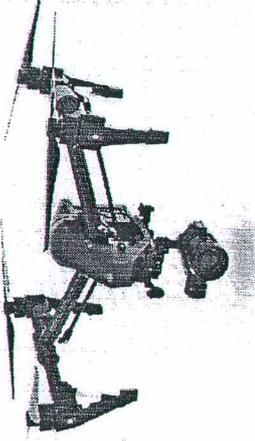
Signature of Dr. K.S. Srinivasan

Dr. K.S. Srinivasan
Principal

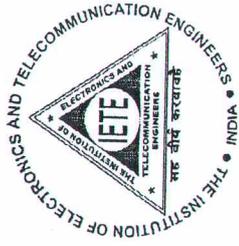
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Rajiv Gandhi Road, (DMP) SIDCO, IT Park,
Sivusari, Chennai



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CERTIFICATE OF COMPLETION



This is to certify that Mr. / Ms. Sharmi Sri P I CSE student of
Mohamed Sathak A J College of Engineering, Chennai has successfully
completed the two days workshop on “**DRONE DESIGNING BY NASA FLIGHT
CONTROLLER**” from 02nd December 2022 to 03rd December 2022 conducted by
Centre for UAV/Drone, Department of Electronics and Communication
Engineering.

(Signature)

Mr. M.Ashokkumar
Coordinator

(Signature)

PRINCIPAL
Dr. I. Mahju
Head - IQAC & HoD/ECE

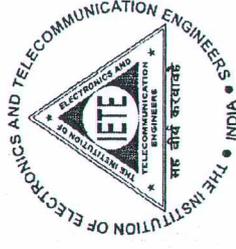
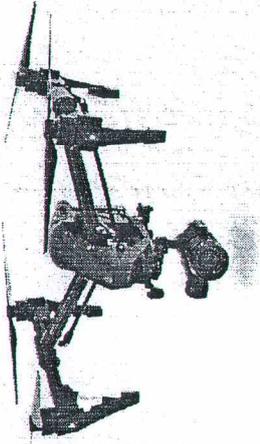
(Signature)

Dr. K.S. Srinivasan
Principal





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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. Zakir Hussain A I CSE student of

Mohamed Sathak A J College of Engineering, Chennai has successfully completed the two days workshop on "DRONE DESIGNING BY NASA FLIGHT CONTROLLER" from 02nd December 2022 to 03rd December 2022 conducted by Centre for UAV/Drone, Department of Electronics and Communication Engineering.

Signature

Signature

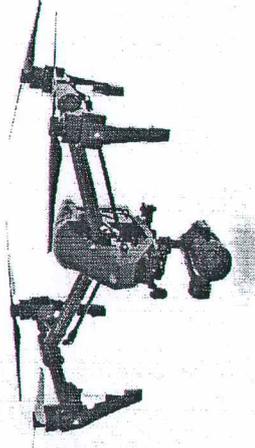
Signature

Mr. M.Ashokkumar
Coordinator
Dr. J. Manjunath
Head - IQAC & HoD/ECE

Dr. K.S. Srinivasan
Principal



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CERTIFICATE OF COMPLETION

This is to certify that Mr. / Ms. Dhanush S I ECE student of

Mohamed Sathak A J College of Engineering, Chennai has successfully completed the two days workshop on “**DRONE DESIGNING BY NASA FLIGHT CONTROLLER**” from 02nd December 2022 to 03rd December 2022 conducted by Centre for UAV/Drone, Department of Electronics and Communication Engineering.

I. Manjun

Mr. M.Ashokkumar PRINCIPAL
MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING
Coordinator No. 34, Rajiv Gandhi Road (Opposite SIPCOT - II Park)
Siruseri, Chennai - 605 103

Dr. K.S. Srinivasan
Principal





Infrastructure Details

Department of Civil Engineering

Sl. No.	Description	Name in Board	Usage	Size (Sq.Ft)	Facilities Available
1	Class Room	SF 320- Lecturer Hall	II Year	702	LCD Projector, Wi-Fi
2	Class Room	SF 321- Lecturer Hall	III Year	702	LCD Projector, Wi-Fi
3	Class Room	SF 322- Lecturer Hall	IV Year	1053	LCD Projector, Wi-Fi
4	Drawing Hall - I	SF 323- Lecturer Hall	-	1053	-

Department of Computer Science Engineering

Sl. No.	Description	Name in Board	Usage	Size (Sq.Ft)	Facilities Available
1	Class Room	TF 406- Lecturer Hall	II Year	1053	LCD Projector, Wi-Fi
2	Class Room	TF 407- Lecturer Hall	III Year	1053	LCD Projector, Wi-Fi
3	Class Room	TF 408- Lecturer Hall	IV Year	1053	LCD Projector, Wi-Fi

Department Of Electrical and Electronics Engineering

Sl. No.	Description	Name in Board	Usage	Size (Sq.Ft)	Facilities Available
1	Class Room	SF 311- Lecturer Hall	II Year	702	LCD Projector, Wi-Fi
2	Class Room	SF 312- Lecturer Hall	III Year	702	LCD Projector, Wi-Fi
3	Class Room	SF 319- Lecturer Hall	IV Year	702	LCD Projector, Wi-Fi

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Department of Electronics and Communications Engineering

Sl. No.	Description	Name in Board	Usage	Size (Sq.Ft)	Facilities Available
1	Class Room	FF 217- Lecturer Hall	II Year	702	LCD Projector, Wi-Fi
2	Class Room	FF 218- Lecturer Hall	III Year	702	LCD Projector, Wi-Fi
3	Class Room	FF 219- Lecturer Hall	IV Year	702	LCD Projector, Wi-Fi

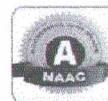
Department of Information Technology

Sl. No.	Description	Name in Board	Usage	Size (Sq.Ft)	Facilities Available
1	Class Room	TF 413- Lecturer Hall	II Year	1053	LCD Projector, Wi-Fi
2	Class Room	TF 414- Lecturer Hall	III Year	1053	LCD Projector, Wi-Fi
3	Class Room	TF 415- Lecturer Hall	IV Year	1053	LCD Projector, Wi-Fi

Department of Mechanical Engineering

Sl. No.	Description	Name in Board	Usage	Size (Sq.Ft)	Facilities Available
1	Class Room	SF 327-Lecturer Hall	II Year	702	LCD Projector, Wi-Fi
2	Class Room	SF 328-Lecturer Hall	III Year	702	LCD Projector, Wi-Fi
3	Class Room	SF 329-Lecturer Hall	IV Year	702	LCD Projector, Wi-Fi


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Department of Science and Humanities

Sl. No.	Description	Name in Board	Usage	Size (Sq.Ft)
1	Class Room	SF 301-Lecturer Hall	I Year	702
2	Class Room	SF 302-Lecturer Hall	I Year	702
3	Class Room	SF 303-Lecturer Hall	I Year	702
4	Class Room	SF 307-Lecturer Hall	I Year	1053
5	Class Room	SF 308-Lecturer Hall	I Year	702
6	Class Room	SF 309-Lecturer Hall	I Year	702

Others

Sl. No.	Description	Name in Board	Usage	Size (Sq.Ft)
1	Class Room	FF 203 -Lecturer Hall	PG	351
2	Drawing Hall - I	SF 323-Lecturer Hall	-	1053
3	Drawing Hall - I	TF 19- Lecturer Hall	-	1053
4	Tutorial Hall	TF 421- Lecturer Hall	-	1053
5	Tutorial Hall	TF 422- Lecturer Hall I	-	702
6	Tutorial Hall	TF 423-Lecturer Hall	PG	702

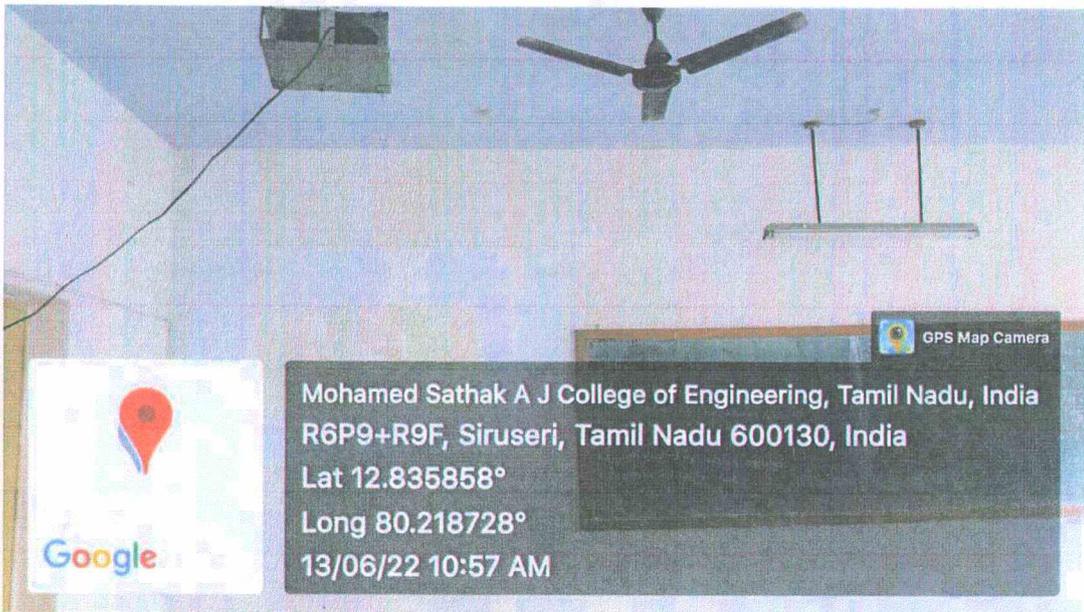
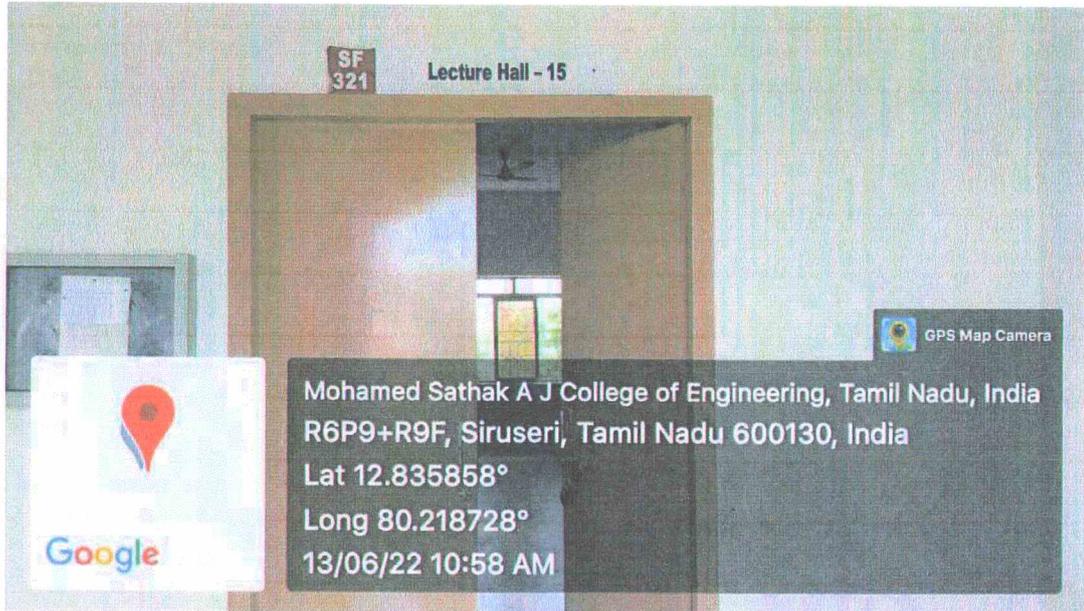

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CIVIL CLASS ROOM SF321



[Signature]
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Chennai-603 103.

[Signature]
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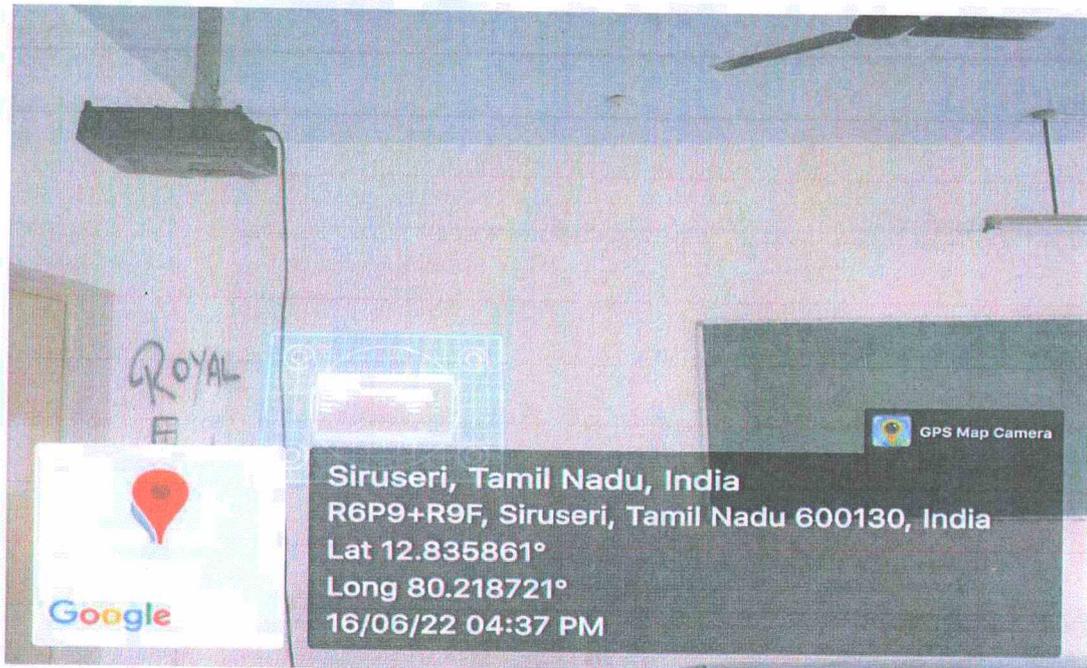
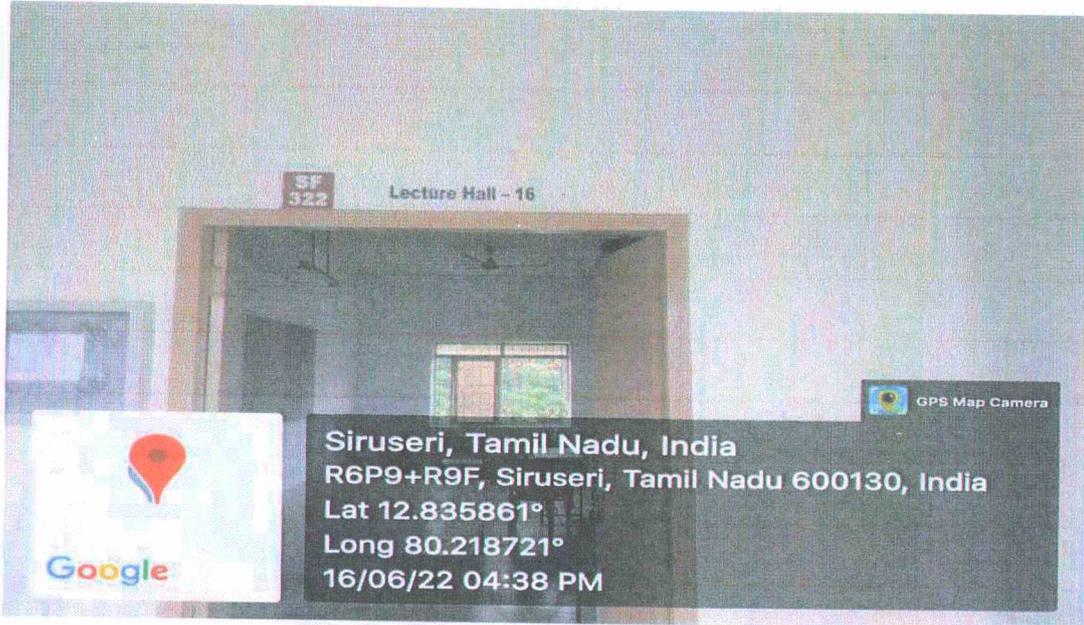
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CIVIL CLASS ROOM SF322



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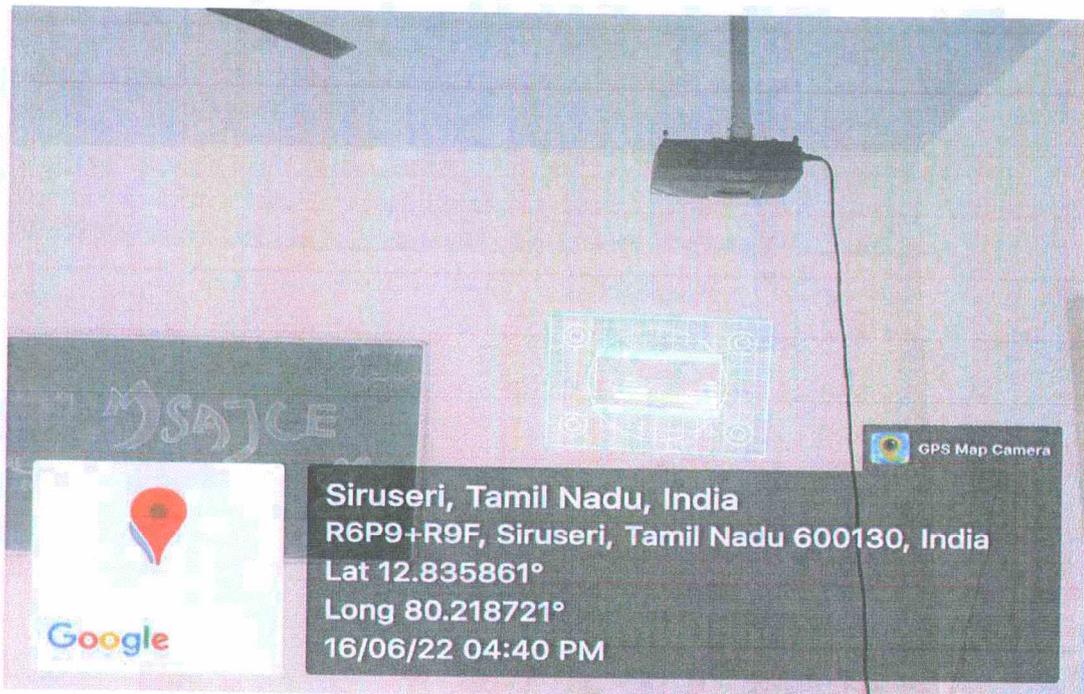
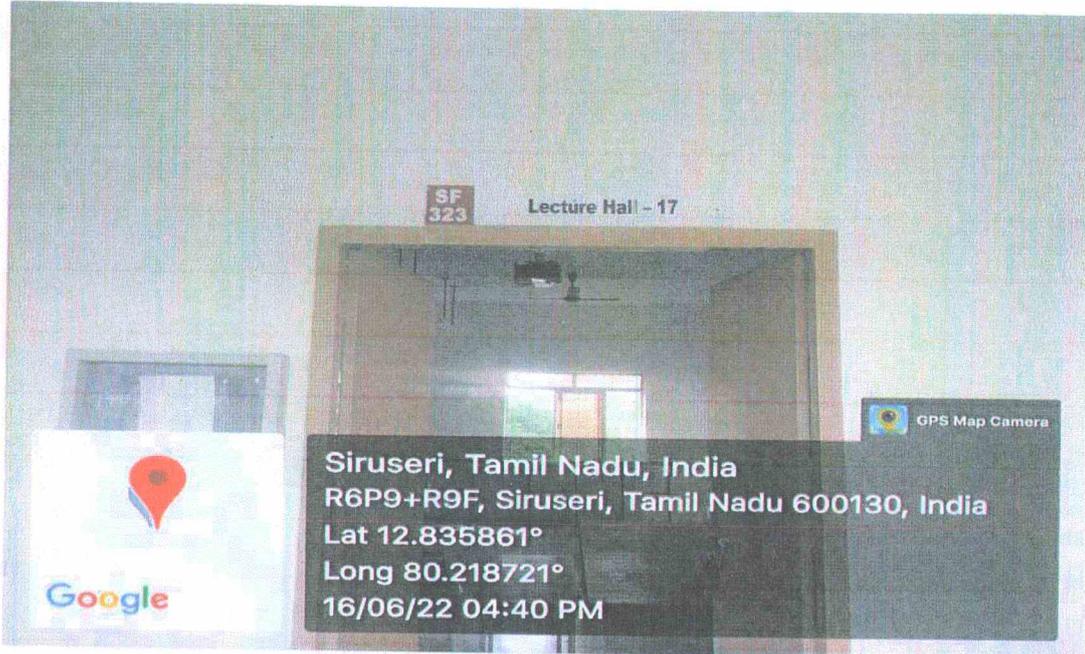
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CIVIL CLASS ROOM SF323



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Sponsored by : MOHAMED SATHAK TRUST, Chennai - 600 034.

Class Work Record



Name of the Faculty	MOTIAN, S-R
Department	MECH & CIVIL
Subject code & Name	ME3351 - ENGINEERING MECHANICS
Year / Semester	II / III
Duration	From 20 22 To 20 23


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Sponsored by : MOHAMED SATHAK TRUST, Chennai - 600 034.



ME3351 - ENGINEERING MECHANICS

Sl.No.	Completion of	Date	Signature of Staff	Signature of HOD	Signature of Principal
1	Unit I	7/9/22			
2	Unit II	29/9/22			
3	Unit III	19/10/22			
4	Unit IV	19/11/22			
5	Unit V	5/12/22			

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Siruseri, Chennai - 603 103.

Course Plan

Sl.No	Unit No.	Title	No.of Hours planned as prescribed by university	No.of Hours actually taken	Remarks.
	I	STATICS OF PARTICLES	9	11	Tutorial. S.P.R
	II	EQUILIBRIUM OF RIGID BODIES	9	9	- S.P.R
	III	DISTRIBUTED FORCES	9	9	S.P.R
	IV	FRICTION	9	9	S.P.R
	V	DYNAMICS OF PARTICLES	9	9	<p style="text-align: center;">Principal</p> <p style="text-align: center;">MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - II Phase Siruseri, Chennai - 603 103.</p> <p style="text-align: right;">S.P.R</p>

Record of Syllabus Coverage

Sl.No	Unit	Date	Period	Topics Covered	Signature of faculty
1.	I	22/8/22	3	Fundamentals, Concepts, Principles, System of Units	G.
2.	I	23/8/22 24/8/22	5 6	Forces in plane	G.
3.	II	25/8/22 26/8/22	6 1	Resultant of Forces, Resolution of Force into Components	G. P.K
4.	I	29/8/22 1/9/22	2 2	Rectangular Components of a force, Unit Vectors	G.
5.	I	2/9/22	1	Equilibrium of particles	G.
6.	I	5/9/22	3	Free body Diagram.	G.
7.	I	6/9/22 7/9/22	5 6	Equilibrium of particle in space.	G. P.P.L
8.	II	12/9/22	3	Principle of Transmissibility Equivalent of Forces	G.
9.	II	13/9/22	5	Moment of a Force about a point, Varignon's theorem.	G.
10.	II	22/9/22 23/9/22	2 1	Rectangular Components, Scalar product of 2 Vectors	G.


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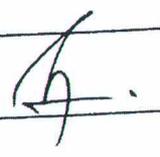
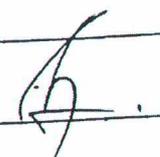
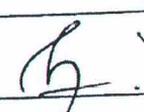
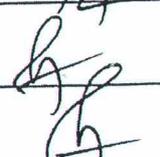
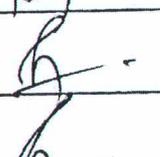
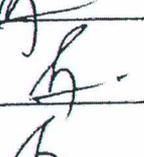
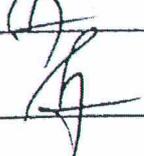
Record of Syllabus Coverage

Sl.No	Unit	Date	Period	Topics Covered	Signature of faculty
11.	II	25/9/22	1	Mixed triple product of three vectors.	<i>[Signature]</i>
12	II	27/9/22	5,6	Couple, Moment of Couple	<i>[Signature]</i>
13	II	28/9/22	6	Resolution of a force into force-couple systems	<i>[Signature]</i>
14.	II	29/9/22	1	Equilibrium in Three Dimensions	<i>[Signature]</i>
15.	III	29/9/22	2	Centroids	<i>[Signature]</i>
16.	III	30/9/22	1	Symmetry & Unsymmetry Determination of Centroid	<i>[Signature]</i>
17.	IV	11/10/22	5	Theorem of Pappus Cylinders.	<i>[Signature]</i>
18	IV	11/10/22	6	Centroid by Integration	<i>[Signature]</i>
19.	IV	12/10/22	2	Distributed loads on Beams.	<i>[Signature]</i>
20.	IV	14/10/22	1	Moment of Inertia Area & Mass	<i>[Signature]</i>

S. Pe
Completed

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 M. SATHYANARAYANAN
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Record of Syllabus Coverage

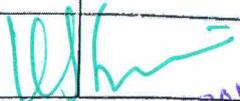
Sl.No	Unit	Date	Period	Topics Covered	Signature of faculty
21.	III	17/10/22	3	Radius of gyration of an Area, parallel axis Theorem	
22	III	19/10/22	2	Moment of Inertia of Thin plates	
23.	III	19/10/22	6	Determination of MI of 3D body by Integration.	
24.	IV	20/10/22	2	Laws of dry friction	
25.	IV	21/10/22	1	Co-efficient of friction.	
26.	IV	27/10/22	1	Angle of friction.	
			2	Wedge friction	
27.	IV	10/11/22	1	Sliding friction.	
			2	Two body friction.	
28	IV	18/11/22	1	Ladder friction	
			2	Ladder friction.	
29.	IV	19/11/22	8	Rolling Resistance	

Completed
of 12

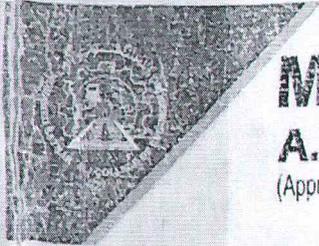

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Record of Syllabus Coverage

Sl.No	Unit	Date	Period	Topics Covered	Signature of faculty
30.	V	21/11/22	3	Kinematics - Rectilinear Motion.	G.
31.	V	24/11/22	2	Curvilinear Motion of Particles	G.
32.	V	25/11/22	1,2	Kinetics, Newton's II law of motion, Dynamic equilibrium.	G.
33.	V	28/11/22	3	Energy & Momentum Methods	G.
34.	V	30/11/22	6	Work of a Force - Energy of a Particle	G.
35.	V	1/12/22	2	Principle of Work Energy - Problems	G.
36.	V	5/12/22	5,6	Impulse Momentum Methods - Impact of elastic bodies	G.


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Completed G.P.M.
 26/12/22



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 (Approved by AICTE, New Delhi and Affiliated to Anna University, Chennai)



Institution Accredited with Grade 'A' by National Assessment and Accreditation Council (NAAC)

EVEN

CLASS HANDLING REPORT

Degree & Branch : BE EEE
 Academic Year : 2022 - 23
 Semester : IV

[Handwritten Signature]

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Thurs

Day:	2/2/23	Year:	2	Semester:	4	Section:	EEF	Cum. working days:	01
Period	Subject Name		Unit	Topics handled	Cum. Periods	Signature		S	
	Scheduled	Altered				Student	Hof		
1	HOD Talk			Curriculum & Syllabus					
2	MPMC		01	Introduction	01				
3	LIC		01	Introduction	01				
4	TEID		01	Structure of Electric Power System	01				
5	ESS		01	Introduction	01				
6	Library		01	Library	01				
7	}								
8	}			Innovative Teaching Methods -logies					
9	}			Presentation by MSc. Archana & Ms. K. Anupreya					

Fri

Day:	3/2/23	Year:	2	Semester:	4	Section:	EEF	Cum. working days:	02	6/2/23
Period	Subject Name		Unit	Topics handled	Cum. Periods	Signature		S		
	Scheduled	Altered				Student	Hof			
1	ESS	-	01	Environment, Scope Need For Public Awareness	2			LIC		
2	LIC	-	01	Manufacturing & Fundamental of Micro Electric IC	2			MEI		
3	TEID	-		Distribution System	2			LIC		
4	MEI	-	01	Introduction	1			MEI		
5	MEI	-	01	Classification of Instruments	2			Library		
6	MPMC	-	01	Introduction to MP ESS	2			ESS		
7										
8	Role			Role Play on IC, Pollution	01					
9	Play			and TEID						

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Satur.

4/2/23		Year: 2	Semester: 4	Section: EEE	Cum. working days: 03	
Subject Name		Unit	Topics handled	Cum. Periods	Signature	
Scheduled	Altered				Student	HoD
TEID	-	01	Scheme of connection	3	<i>[Signature]</i>	<i>[Signature]</i>
LIC	-	01	Typical circuit of non-linear	3	<i>[Signature]</i>	
}			Mech and I&AC		<i>[Signature]</i>	
			Seminar on ^{An overview} HVAC&R			
			ISHVAC & quiz conducted			
}			LP Activity		<i>[Signature]</i>	
			Student's book Seminar			
			On MPNC			

4/2/23

om
04/02/23

Monday

5/2/23		Year: 2	Semester: 4	Section: EEE	Cum. working days: 04	
Subject Name		Unit	Topics handled	Cum. Periods	Signature	
Scheduled	Altered				Student	HoD
LIC	-	01	Diode fabrication.	4	<i>[Signature]</i>	<i>[Signature]</i>
M&I	-	01	Generalised Measurement	3	<i>[Signature]</i>	
LIC	-	01	Resistor fabrication	5	<i>[Signature]</i>	
NEE	-	01	Accuracy & Precision. Generalised Measurement	4	<i>[Signature]</i>	
Library	-	01	library	2	<i>[Signature]</i>	
ESS	-	01	Eco-system	3	<i>[Signature]</i>	
}			Auditorium		<i>[Signature]</i>	
			Principal address			

5/2/23

[Signature]

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SYLLABUS COMPLETION REPORT

Academic Year : 2022 - 2023

Department : EEE

Year/Sem : II / IVth

S.No	Subject Code	Subject Name	Faculty Name	% of Syllabus Completion					Faculty Sign	
				Unit I	Unit II	Unit III	Unit IV	Unit V		
1	GE3451	Environmental Sciences and sustainability	Dr. Somesudhan	100%	100%	100%	100%	100%	100%	Robert
2	EE3401	Transmission & Distribution	Mr. S.V. Vinodh	100%	100%	100%	100%	100%	100%	Spent
3	EE3402	Linear Integrated Circuits	Ms. K. Anupreya	100%	100%	100%	100%	100%	100%	Dr. J. Jeha
4	EE3403	Measurements & Instrumentations	Mr. N. Suresh	100%	100%	100%	100%	100%	100%	Praveen
5	EE3404	Microprocessor & Micro Controller	Ms. C. Archana	100%	100%	100%	100%	100%	100	Dr. J. Jeha
6	EE3405	Electrical Machines - II	Dr. J. Jeha	100	100	100	100	100	100	Dr. J. Jeha

Remarks:

Dr. J. Jeha
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Srinagar, Chennai - 603 103.

Dr. J. Jeha
Head of the Department



HoD Meeting

Minutes of Meeting

08.11.2022

Venue : Principal Room

The following Members were attended and the following points were discussed in the meeting.

Name	Signature
Dr.K.S.Srinivasan - Principal	
Dr.G.Ramesh – Head / Administration	
Dr.I.Manju – Head – Technology Centre, IGAC	
Dr.A.Balakrishnan – Head / Academics	
Mr. Weslin – HoD / IT	
Dr.M.Sivakumar – HoD / ECE	
Dr.S.Prasath – HoD / Mech	
Dr.R.Someswaran – HoD / Civil	
Dr.J.Jeha – HoD / EEE	
Dr.Vedhavathy – HoD / CSE	
Dr.S.Rajakumar HoD / S & H	

- Students attendance are taking 3 times in a day. 1st, 3rd & 7th hour. Daily we have to submit the report to the Trust office.
- Upload the internal marks as it is in Anna university web portal.
- Ask the students submit the symposium account at the earliest.
- Plan to conduct welcome fest by the senior students for I Year Students.
- Online feedback by the students to be completed.
- HoDs should know the count of I year admission in your department.
- From Thursday onwards EPC classes will be started. If your class has high strength you can split into 3 or 2 groups. Room number 402 and 408 can use for EPC classes.
- Instruct all the students to bring hard copy of notes for EPC classes.
- Close all faculty room and instruct them to sit along with the students throughout the EPC classes.
- Last working day for register in Anna University Examination portal is 18.11.2022.
- All departments should complete their Professional Society registration at the earliest.

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- Dr.J.Jeha HoD / EEE allotted for NPTEL, Karma & Spoken Tutorial courses.
- If any Student / Faculty attend and Pass in NPTEL examination, 50% of exam fee (Rs.500) will be reimbursement to the concern.
- Mr.K.K.Vinothkumar AP/ Mechanical allotted for all ranking like NIRF, ARIA, NAAC & NBA works.
- Dr.B.Devibala AP/ Chemistry allotted for Smart India Hackathon.
- Dr.Someswaran HoD / Civil & Dr.A.Kamalaselvan allotted for COE / Technology Centre.
- Dr.I.Manju allotted for IQAC, Patent Filing & AICTE – Kapila Scheme.
- All NAAC files to be ready both Hard & Soft copy and these have to be submitted in IQAC Cell.
- Coming Monday onwards Faculty are requested to stay back up to 5.00pm and complete the NAAC Files. Already you completed for 5 years upto 2020 – 2021 academic year. All are requested to compete the current and previous academic year. i.e 2021 – 2022 & 2022 -2023.
- Ask the students to use out pass for outing purpose during working hours.
- Website to be updated. Lots of events we have conducted but it didn't upload in our college website. Kindly look it and update at the earliest.


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MINUTES OF MEETING - ECE DEPARTMENT

The Department meeting will be conducted on 17.08.22 in the Electronics Lab

Sl.No	Faculty	Circular Notified	Attended
1.	Dr.I. Manju , Head IQAC		
2.	Dr.M.Sivakumar , HOD / ECE		
3.	Dr.G.Sivaranjani AP/ECE		
4.	Mr.M.Kamarajan AP/ECE		
5.	Mrs.E.Jayanthi AP/ECE		
6.	Mrs.S.Priyadharshini- AP/ECE		
7.	Mrs.S.Anusuya AP/ECE		
8.	Mr.M.Ashokkumar AP/ECE		
9.	Mr. M.L. Syed Ali AP/ECE		
10.	Mrs.S.Sonadevi AP/ECE		

Agenda:

1. Awareness about changes in curriculum for R2021
2. Subject allocation & Work load discussion
3. Plan for academic activities and events.
4. Discipline action for late comer's absentees.
5. University Results strategy to improve.
6. Students participation in competition, co-curricular, extracurricular activities.

The following points were discussed in the meeting

1. HOD gave awareness changes in curriculum in R2021
2. Subject allocation & work load for the odd semester was discussed.
3. Informed to subject Lesson plan, Lecture notes for 5 units on 22nd August 2022.
4. Faculty were advised to encourage the Students to participate for Co-curricular and Extra Curricular activities.
5. Insisted to monitor the Students discipline strictly, especially during afternoon session.
6. Lab manuals need to be finalized.
7. Parents-teachers meeting/CCM should be as per the Schedule.
8. Ask students to maintain attendance from the first day itself attendance of the students should be closely observed.
9. Discussion about Curriculum Gap Identification inclusion of (CBS).

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HOD/ECE



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DEPARTMENT OF ECE

Date: 16/08/2022

Ref: 01/MSAJCE/ECE/ODD/2022-2023

CIRCULAR

It is hereby informed that there will be a faculty meeting on 17/08/2022 at 1.30 PM in Electronics Lab and all are advised to attend the meeting without fail

Agenda:

1. Awareness about changes in curriculum for R2021
2. Subject allocation & work load discussion
3. Plan for academic activities and events.
4. Discipline action for the late comer's absentees.
5. University Results strategy to improve.
6. Curriculum gap identification (CSB).


HOD/ECE


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COPY TO:

Department of ECE.



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EXAM CELL - CIRCULAR

AY 2022-2023 (ODD SEM)

IAT - I EXAM SCHEDULE - IV YEAR

Date: 23.08.2022

Ref: MISAJCE/EC/118/2022

Date & Day Dept.	CIVIL	CSE	EEE	ECE	MECH	IT
25.08.2022 FORENOON	CE8701 ESTIMATION, COSTING AND VALUATION ENGINEERING	CS8792 - CRYPTOGRAPHY AND NETWORK SECURITY	EE8702 - POWER SYSTEM OPERATION AND CONTROL	EC8791 - EMBEDDED AND REAL TIME SYSTEMS	ME8792 - POWER PLANT ENGINEERING	CS8792 - CRYPTOGRAPHY AND NETWORK SECURITY
25.08.2022 AFTERNOON	CE8702 RAILWAYS, AIRPORTS, DOCKS AND HARBOUR ENGINEERING	OMF751 - LEAN SIX SIGMA	OC5752 - INTRODUCTION TO C PROGRAMMING	OMF751 - LEAN SIX SIGMA	OMF751 - LEAN SIX SIGMA	OMF751 - LEAN SIX SIGMA
26.08.2022 FORENOON	CE8703 STRUCTURAL DESIGN AND DRAWING	CS8079 - HUMAN COMPUTER INTERACTION	GE8077 - TOTAL QUALITY MANAGEMENT	EC8702 - AD HOC AND WIRELESS SENSOR NETWORKS	ME8793 - PROCESS PLANNING AND COST ESTIMATION	CS8079 - HUMAN COMPUTER INTERACTION
26.08.2022 AFTERNOON	EN8591 - MUNICIPAL SOLID WASTE MANAGEMENT	CS8791 - CLOUD COMPUTING	GE8071 - DISASTER MANAGEMENT	-	ME8097 - NON DESTRUCTIVE TESTING AND EVALUATION	CS8791 - CLOUD COMPUTING
29.08.2022 FORENOON	OME754 INDUSTRIAL SAFETY	MG8591 - PRINCIPLES OF MANAGEMENT	EE8701 - HIGH VOLTAGE ENGINEERING	EC8701 - ANTENNAS AND MICROWAVE ENGINEERING	ME8791 - MECHATRONICS	MG8591 - PRINCIPLES OF MANAGEMENT
29.08.2022 AFTERNOON	-	EE8703 - RENEWABLE ENERGY SYSTEMS	EC8751 - OPTICAL COMMUNICATION	ME8073 - UNCONVENTIONAL MACHINING PROCESSES	-	-

Wdh

copy to

The Principal
HOD & Staff for students
Notice Board

Time: FN - 9.45 AM TO 11.15 AM
AN - 2.00 PM TO 3.30 PM

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ACADEMICS - HEAD

Mohammed Sathak

Reg.No:

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Question Paper

B.E /B .Tech DEGREE INTERNAL ASSESSMENT TEST-III NOV- 2022

Third Semester

**Department of Mechanical Engineering
ME 3351 ENGINEERING MECHANICS
(Common to Civil & Mechanical)**

Time: 90 Minutes

Maximum: 50 Marks

Course Objectives

- : To Learn the use scalar and vector analytical techniques for analyzing forces in statically determinate structures
- : To study and understand the distributed forces, surface, loading on beam and intensity

Course Outcomes: The Students should be able to

- CO1 : Illustrate the vectorial and scalar representation of forces and moments
- CO2 : Analyze the rigid body in equilibrium
- CO3 : Evaluate the properties of surfaces and solids
- CO4 : Determine the friction and the effects by the laws of friction
- CO5 : Calculate dynamic forces exerted in rigid body

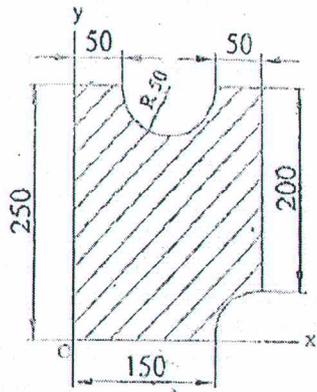
K1-Remember K2-Understand K3-Apply K4-Analyze K5-Evaluate K6-Create

**Answer ALL Questions.
PART A – (7 X 2 = 14 marks)**

- | | | | | |
|---|---|-----|----|----------|
| 1 | State parallel axis theorem. | CO2 | K3 | A/M 2018 |
| 2 | Define principal axes and principal moment of inertia. | CO2 | K2 | A/M 2017 |
| 3 | State Pappus Guldinus Theorems I and II. | CO2 | K1 | N/D 2018 |
| 4 | Define Radius of gyration. | CO2 | K2 | N/D 2017 |
| 5 | Distinguish between centroid and centre of gravity | CO2 | K2 | A/M 2017 |
| 6 | What is mass moment of Inertia and state its significant. | CO2 | K2 | N/D 2016 |
| 7 | A semicircle of radius 'a' is defined in the first and fourth quadrants.
Write down its co-ordinates of centroid | CO2 | K3 | N/D 2015 |

**Answer All the Questions
PART B (2 X 12=24)**

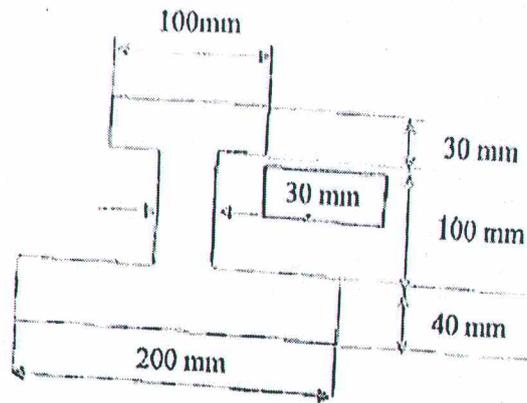
- | | | | | | |
|---|---|----|-----|----|----------|
| 8 | (a) Locate the centroid of the shaded area shown in fig. The dimensions are in mm | 12 | CO2 | K5 | N/D 2018 |
|---|---|----|-----|----|----------|



OR

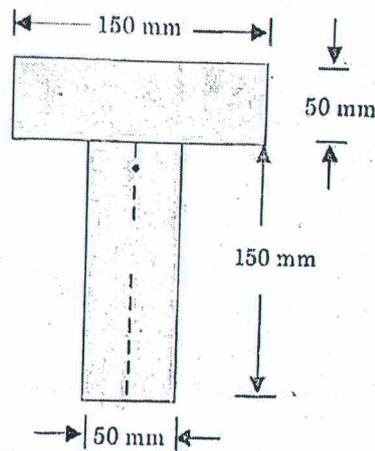
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|-----|---|----|-----|----|----------|
| (b) | Determine the centre of gravity of the unsymmetrical I section as shown in fig. | 12 | CO2 | K5 | A/M 2018 |
|-----|---|----|-----|----|----------|

(Signature)
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9 (a) Find the area moment of inertia of T section as shown in fig.

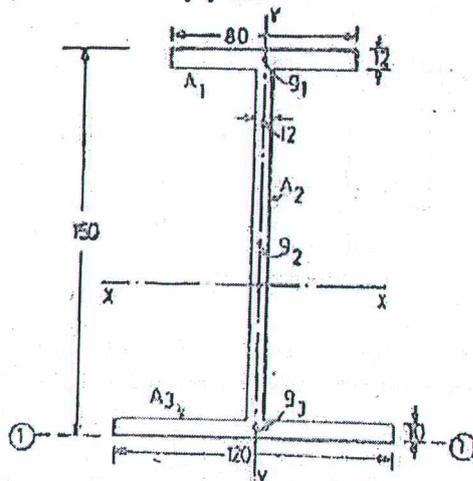
12 CO2 K5 N/D 2016



OR

(b) Determine the polar moment of inertia about the centroidal axis of the I section shown in fig. Also determine the radius of gyration with respect to x-x and y-y axis.

12 CO2 K5 N/D 2018



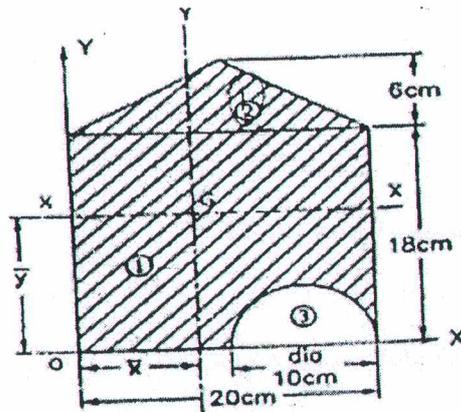
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Answer All the Questions

PART C (1 X 12=12)

10 (a) Determine the centroid of the lamina as shown in fig

12 CO2 K5 N/D 2016



OR

(b) Determine the location of centroid for the right-angle triangle from the first principles and find the volume of cone using Pappus-Guldinus theorem.

12 CO2 K5 A/M 2017

Prepared By
(Mr. Mohan S R, AP-Mech)

Verified By
(Dr. S. Prasath, Head-Mech)

Approved By
(Dr. A. Balakrishnan, AC)

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IAT 3 - Answer key

ME3351 - EN

Internal Assessment Test = III.

Part A-

1. State parallel axis theorem.

The parallel axis theorem states that "The moment of inertia of a plane area about any axis is the sum of the moment of inertia of area about the axis, passing through the centroid of the area parallel to the given axis and the product of area of the plane and the square of perpendicular distance of its centroid from the axis. $I_{AB} = I_{CG} + Ah^2$

2. Define principle axis and principle moment of inertia

The perpendicular axis about which product of inertia is zero is called as principle axis and the moment of inertia with respect to this axis is called principle moment of inertia

3. State Pappus-Guldinus Theorem:-

The area of surface revolution obtained by revolving a line or curve is equal to the generating line or curve multiplied by the distance travelled by the centroid of generating line when it is being rotated.


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4. Define Radius of Gyration.

The Radius of gyration is defined as the distance at which the whole area of the body may be assumed to be concentrated with reference to axis of reference

5. Distinguish b/w centroid and center of Gravity.

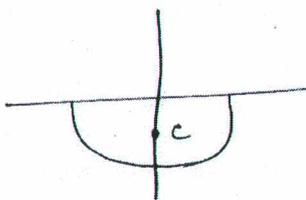
* Center of Gravity applies to the bodies with mass and weight while the centroid applies to plane area

* Center of Gravity of a body is the point through which the entire weight of the body acts for any orientation of the body while centroid is the point in a plane area such that the moment of area, about any axis through the point is zero.

6. Mass moment of inertia also known as rotational inertia is a quantity that is used in measuring a body's resistance to a change in its rotation, direction or angular momentum.

It basically characterizes the acceleration undergone by an object or solid when torque is applied.

7



$$x = \frac{\pi d^4}{128}$$

$$y = 0.0068 d^4$$

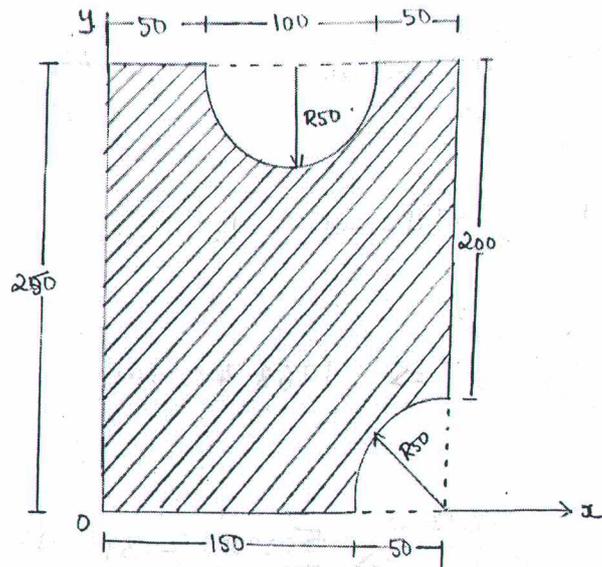
$$x = \frac{\pi (2a)^4}{128} = \frac{\pi a^4}{16}$$

$$r = a$$

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Part-B.

8)a) Locate the centroid of shaded area. The dimension are in mm



Solu.

The lamina is combination of 3 shapes.

Rectangle - Semicircle - Quarter circle

Part-1.

Rectangle $b = 200$ $h = 250$

$$x_1 = \frac{b}{2} = \frac{200}{2} = 100 \text{ mm} \quad y_1 = \frac{h}{2} = \frac{250}{2} = 125 \text{ mm}$$

$$a_1 = bh = 200 \times 250 = 50,000 \text{ mm}^2$$

Part-2

Semi-circle: $R = 50$

$$x_2 = R = 50 \text{ mm}$$

$$y_2 = \frac{4R}{3\pi} = \frac{4 \times 50}{3 \times \pi}$$

$$a_2 = \frac{\pi R^2}{2} = \frac{\pi (50)^2}{2} = 7853.98$$

$$y_2 = 21.220 + 200 \Rightarrow 221.22$$

$$a_2 = \frac{\pi R^2}{2} = \frac{\pi (50)^2}{2} = \frac{7853.98}{2} \Rightarrow 3926.990 \text{ mm}^2$$

Wsh

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Part - 3

Quarter-circle $R=50$

$$x_2 = \frac{4R}{3\pi} \Rightarrow \frac{4 \times 50}{3\pi} = \frac{200}{3\pi} \approx 21.220 \quad y = \frac{4R}{3\pi} = \frac{4 \times 50}{3\pi} = 21.220$$

$$x_3 \Rightarrow 150 + 21.220 \Rightarrow 171.22 \text{ mm} \quad y_3 = 21.220 \text{ mm}$$

$$a_3 = \frac{\pi R^2}{4} \Rightarrow \frac{\pi \times (50)^2}{4} \Rightarrow 1963.495 \text{ mm}^2$$

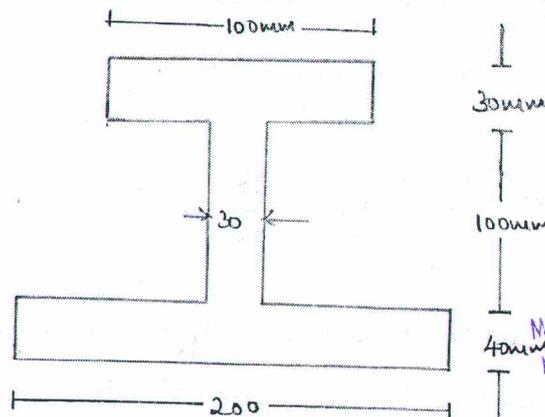
$$\bar{x} = \frac{a_1 x_1 - a_2 x_2 - a_3 x_3}{a_1 - a_2 - a_3} \Rightarrow \frac{5000000 - 392699 - 41665.36}{50000 - 3926.99 - 1963.495}$$

$$\bar{x} = 103.50 \text{ mm}$$

$$\bar{y} = \frac{a_1 y_1 - a_2 y_2 - a_3 y_3}{a_1 - a_2 - a_3} = \frac{6250000 - 868728.72 - 41665.36}{50000 - 3926.99 - 1963.495}$$

$$\bar{y} = 121.05 \text{ mm}$$

8)b) Determine the center of Gravity of the unsymmetrical I section.



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Solu

Bottom Flange:-

$$a_1 = 200 \times 40 = 8000 \text{ mm}^2$$

$$y_1 = \frac{d}{2} = \frac{200}{2} = 100 \text{ mm}$$

Center flange

$$a_2 = 100 \times 30 = 3000 \text{ mm}^2$$

$$y_2 = 40 + \frac{d}{2} = 40 + \frac{100}{2} = 40 + 50 = 90 \text{ mm}$$

Top Flange:-

$$a_3 = 100 \times 30 = 3000 \text{ mm}^2$$

$$y_3 = 140 + \frac{d}{2} = 140 + 15 = 155 \text{ mm}$$

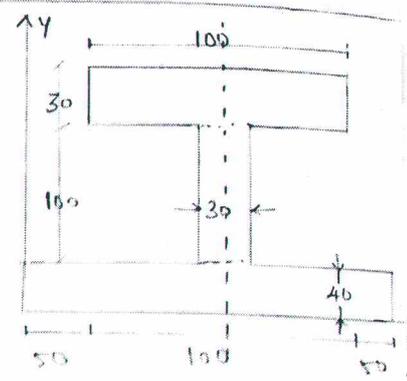
$$\bar{y} = \frac{a_1 y_1 + a_2 y_2 + a_3 y_3}{a_1 + a_2 + a_3}$$

$$\bar{y} = \frac{8000 \times 100 + 3000 \times 90 + 3000 \times 155}{8000 + 3000 + 3000}$$

$$\bar{y} = \frac{800000 + 270000 + 465000}{14000}$$

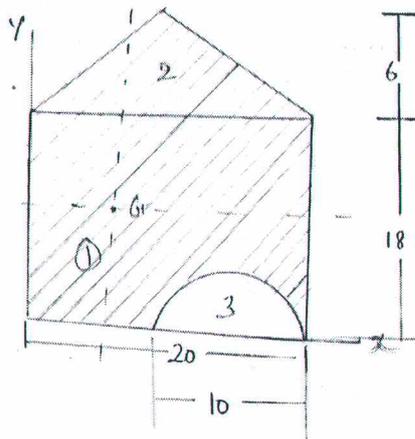
$$\bar{y} = 109.64 \text{ mm}$$

∴ Center of Gravity = 109.64 mm



[Signature]
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10) a) Determine the centroid of lamina as shown in figure



Soln:- Centroid

All dimensions are in cm

Rectangle

Shape.	Area	x	y .
Rectangle	$a_1 = l \times b$ $= 18 \times 20 = 360 \text{ cm}^2$	$x_1 = \frac{b}{2} = \frac{20}{2}$ $= 10 \text{ cm}$	$y_1 = \frac{h}{2} = \frac{18}{2}$ $= 9 \text{ cm}$
Triangle.	$a_2 = \frac{1}{2}bh$ $\Rightarrow 60 \text{ cm}^2$	$x_2 = \frac{b}{2} = \frac{20}{2}$ $= 10 \text{ cm}$	$y_2 = 18 + \frac{h}{3}$ $= 20 \text{ cm}$
Semi-circle	$a_3 = \frac{\pi R^2}{2}$ $\Rightarrow 157.07 \text{ cm}^2$	$x_3 = R + 10$ $= 20 \text{ cm}$	$y_3 = \frac{4R}{3\pi}$ $= 4.24 \text{ cm}$

$$\bar{x} = \frac{a_1 x_1 + a_2 x_2 - a_3 x_3}{a_1 + a_2 - a_3} = \frac{3600 + 600 - 3141.4}{360 + 60 - 157.07} \Rightarrow 9.026 \text{ cm}$$

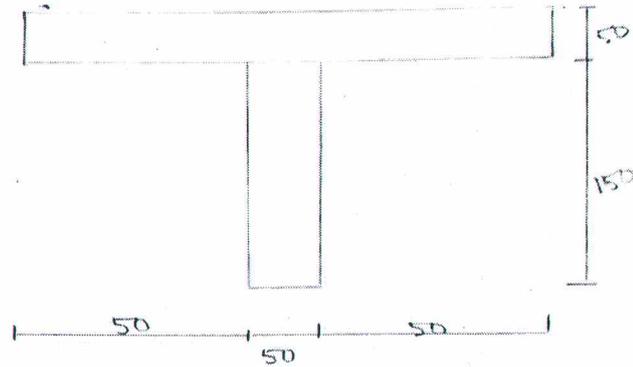
$$\bar{y} = \frac{a_1 y_1 + a_2 y_2 - a_3 y_3}{a_1 + a_2 - a_3} = \frac{3240 + 1200 - 665.9}{360 + 60 - 157.07} \Rightarrow 14.35 \text{ cm}$$

$$\bar{x} = 9.026 \text{ cm}$$

$$\bar{y} = 14.35 \text{ cm}$$

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9) a) Find the area moment of inertia of T section as shown in figure



Centroid:

Part - 1.

$$x_1 = 50 + \frac{b}{2} \Rightarrow 50 + \frac{50}{2} = 50 + 25 = 75 \text{ mm}$$

$$y_1 = \frac{h}{2} = \frac{150}{2} \Rightarrow 75 \text{ mm}$$

$$a_1 = bh = 50 \times 150 \Rightarrow 7500 \text{ mm}^2$$

Part - 2.

$$x_2 = \frac{b}{2} = \frac{50}{2} = 25 \text{ mm}$$

$$y_2 = 150 + \frac{h}{2} = 150 + \frac{50}{2} = 175 \text{ mm}$$

$$a_2 = bh = 50 \times 150 \Rightarrow 7500 \text{ mm}^2$$

Centroid

$$\bar{x} = \frac{a_1 x_1 + a_2 x_2}{a_1 + a_2} \Rightarrow \frac{7500(75) + 7500(25)}{7500 + 7500} \Rightarrow \frac{562500 + 187500}{15000} = 46.428 \text{ mm}$$

$$\bar{y} = \frac{a_1 y_1 + a_2 y_2}{a_1 + a_2} \Rightarrow \frac{7500(75) + 7500(175)}{7500 + 7500} \Rightarrow \frac{562500 + 1312500}{15000} = 114.5 \text{ mm}$$

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Moment of Inertia:

$$I_{xx_1} = I_{xx} \text{ of } a_1 + a_1 (y_1 - \bar{y})^2$$

$$= \frac{1}{12} b d^3 + 7500 (75 - 175)^2 \Rightarrow \frac{1}{12} \times 50 \times (150)^3 + 7500 (-100)^2$$

$$= 20.31 \times 10^6 \text{ mm}^4.$$

$$I_{xx_2} = \frac{1}{12} b d^3 + a_2 (y_2 - \bar{y})^2$$

$$= \frac{1}{12} \times 50 \times (150)^3 + 10,000 (250 - 175)^2 \Rightarrow 14,062,500 + 56,250,000 =$$

$$= 70.31 \times 10^6 \text{ mm}^4$$

$$I_{yy_1} = \frac{1}{12} d b^3 + a_1 \left(\frac{x_1 - \bar{x}}{4} \right)^2$$

$$= \frac{1}{12} \times 150 \times 50^3 + 7500 \left(75 - \frac{46.428}{4} \right)^2 \Rightarrow 7.68 \times 10^6 \text{ mm}^4$$

$$I_{yy_2} = \frac{1}{12} d b^3 + a_2 (x_2 - \bar{x})^2$$

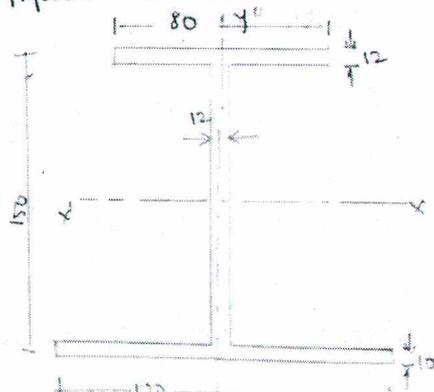
$$= \frac{1}{12} \times 150 \times 50^3 + 10,000 (25 - 46.428)^2 \Rightarrow 6.15 \times 10^6 \text{ mm}^4.$$

$$I_{xx} = I_{xx_1} + I_{xx_2} \Rightarrow 20.31 \times 10^6 + 70.31 \times 10^6 = 90.62 \times 10^6 \text{ mm}^4 //$$

$$I_{yy} = I_{yy_1} + I_{yy_2} \Rightarrow 7.68 \times 10^6 + 6.15 \times 10^6 = 13.83 \times 10^6 \text{ mm}^4 //$$

9) b) Determine the moment of Inertia about the centroidal axis of section

I as shown in figure. Also determine the radius of gyration with respect to x-x and y-y.



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Due to symmetry, $\bar{x} = \frac{120}{2} = 60 \text{ mm}$.

$\bar{y} =$

Top flange:- $80 \text{ mm} \times 12 \text{ mm}$

$$a_1 = 80 \times 12 = 960 \text{ mm}^2$$

$$y_1 = 10 + 64 + \frac{12}{2} = 10 + 64 + 6 \Rightarrow 80 \text{ mm}$$

web; $128 \times 12 \text{ mm}$.

$$a_2 = 128 \times 12 = 2816 \text{ mm}^2$$

$$y_2 = 10 + \frac{128}{2} = 74 \text{ mm}$$

Bottom flange:- ($\frac{120 \times 10}{80 \times 12}$)

$$a_3 = 120 \times 10 = 1200 \text{ mm}^2$$

$$y_3 = 12/2 \Rightarrow 6 \text{ mm}$$

$$\bar{y} = \frac{a_1 y_1 + a_2 y_2 + a_3 y_3}{a_1 + a_2 + a_3} \Rightarrow \frac{(960 \times 80) + (2816 \times 74) + (1200 \times 6)}{960 + 2816 + 1200}$$

$$= 58.758$$

∴ Horizontal centroidal axis xxx is at a height of 42.72 mm from the horizontal reference.

Moment of Inertia about xx -axis.

$$I_{xx_1} = \frac{I_{G_1}}{12} + A_1 \bar{h}_1^2$$

$$= \frac{80 \times 12^3}{12} + 960 \times 452.49$$

$$= 11520 + 434390.4$$

$$\Rightarrow 4.34 \times 10^6 \text{ mm}^4$$


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58 728 - 80

$$I_{xx2} = \frac{12 \times 128^3}{12} + a_2 (\bar{y} - y_2)^2$$

$$\Rightarrow \frac{12 \times 128^3}{12} + 2816 (58.758 - 74)^2$$

$$= \frac{12 \times 128^3}{12} + 6542090.01 \Rightarrow 8.63 \times 10^6 \text{ mm}^4$$

$$I_{xx3} = I_{xx} \text{ of } a_3 + a_3 (\bar{y} - y_3)^2$$

$$= \frac{120 \times 10^3}{12} + 1200 (58.758 - 6)^2$$

$$= 10,000 + 3340087.81 \Rightarrow 3.35 \times 10^6 \text{ mm}^4$$

$$I_{xx} = 8.63 \times 10^6 + 3.35 \times 10^6 + 4.34 \times 10^6 = 16.32 \times 10^6 \text{ mm}^4$$

Moment of Inertia of YY-axis.

$$I_{yy1} = I_{yy} \text{ of } a_1 + a_1 (\bar{x} - x_1)^2$$

$$\bar{x} = x_1 = 0$$

$$I_{yy1} = \frac{12 \times 80^3}{12} = 0.51 \times 10^6 \text{ mm}^4$$

$$I_{yy2} = I_{yy2} \text{ of } a_2 + a_2 (\bar{x} - x_2)^2$$

$$\bar{x} = x_2 = 0$$

$$I_{yy2} = \frac{128 \times 12^3}{12} \Rightarrow 18432 \Rightarrow 0.01 \times 10^6 \text{ mm}^4$$

$$I_{yy3} = I_{yy3} \text{ of } a_3 + a_3 (\bar{x} - x_3)^2$$

$$= \frac{10 \times 120^3}{12} \Rightarrow 1.44 \times 10^6 \text{ mm}^4$$

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$$I_{yy} = I_{yy_1} + I_{yy_2} + I_{yy_3}.$$

$$= 0.51 \times 10^6 + 0.01 \times 10^6 + 1.44 \times 10^6$$

$$= 1.96 \times 10^6 \text{ mm}^4.$$



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INDIVIDUAL SUBJECT MARK SHEET - IAT III

Department of Mechanical Engineering

Sub.Code/Sub.Name: ME3351 Engineering Mechanics

Year/Sem: II/III

Name of the Faculty: Mr.Mohan S R

Date of exam: 3-11-2022 AN

Sl. no.	Reg No.	Name	Question No.												Total (50)	Total (100)	Signature
			PART A							PART B							
			7 X 2 = 14							3 X 12 = 36							
1	2	3	4	5	6	7	8(a)	8(b)	9(a)	9(b)	10(a)	10(b)					
1	311821114001	AADIL T (H)	0	1	0	1	1		12		8		12		35	70	A. Adarsh
2	311821114002	ABDUL KAFFAR (H)	2	2	1	2	2	0	1	12		6		12	40	80	Adarsh
3	311821114003	DHANUSH ADITHYA S	2	2	2	2	2	2	2	12		12		12	50	100	Dhanush Adithya S
4	311821114004	GOKULNATH.D								10		8		10	28	56	Gokul
5	311821114005	HAJI PUTHU MYDEEN . S (H)			1	1	1			6		8		8	25	50	S. Haji
6	311821114006	HARI M								12		12			24	48	M. Hari
7	311821114007	JASWIN KUMAR B (H)		1	1	1	1			12			5		21	42	B. Jaswin
8	311821114009	MOHAMED ANSARI N		1	1	0				11		9		12	34	68	N. Ansari
9	311821114010	MOHAMED FAZID S	2	0		0	2	0	1	10			7	10	32	64	M. Fazid S
10	311821114011	MOHAMMED SAFREES (H)											9		9	18	M. Safrees
11	311821114012	NARESH.P	2		1		1			11		12		8	35	70	N. Naresh
12	311821114014	SANDEEP . S (H)								7		8			15	30	S. Sandeep
13	311821114015	SEYED AHAMED S .T (H)	0	0							4		5		9	18	S. S. T
14	311821114016	SHAIK IRFAN	1	1	1					12		3		7	25	50	K. S. Irfan
15	311821114017	SHAILESH KUMAR P	1	1	1	2	1			11		7		10	34	68	P. Shailesh
16	311821114018	UDHAYAKUMAR.G				1				10		7		7	25	50	U. Udhayakumar
17	311821114307	SYED MOHAMMED				1				12		8		7	28	56	S. Mohammed
18	311821114301	ABDUR RAHMAN J		2	1	2				10		10		5	30	60	J. Rahman
19	311821114305	SHAMMER AHAMED					0	0		10		10		12	32	64	S. Shammer
20	311821114303	MOHAMED ANWAR TA	2	2		2				12		10		8	36	72	M. Anwar
21	311821114304	RASOOL MOHAMED	2	2	1	2	2	0		8		7		7	31	62	R. Rasool
22	311821114701	MOHAMED SAMEEM P								7		6		12	25	50	M. Sameem
23	311821114302	CHANDRU													A	A	P. Chandru
24	311821114306	SWARUPA MALVAN									7	11		9	27	54	S. Swarupa

*Mark "A" for absent

Total no. of students:	24
No of students present:	23
No. of students absent:	1
No. of students pass:	18
No. of students fail:	5
Pass percentage:	75

Subject in-charge

Fromat no: RA 01

Rev.no. 1.0

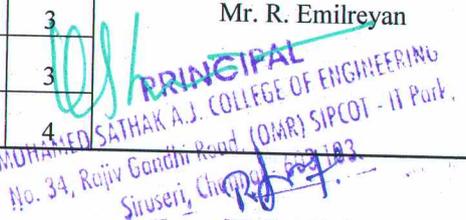
Rev. Date: 04.01.21

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DEPARTMENT OF CIVIL ENGINEERING

DETAILS OF MENTEE ASSIGNED TO MENTOR				
S.No	Reg. No	Name of the Student	Year	Mentor
1	311819103301	MOHAMED KHAN S	4	Dr. R. Someswaran
2	311820103314	SUDHARSAN A	3	
3	311820103309	MUSTHAQ	2	
4	311820103305	JAYASEELAN	3	
5	311821103001	A MOHAMED FAIZAL	2	
6	311821103004	S.SHANMUGAM	2	
7	311819103001	ANANDHU ACHARRY. M. S	4	Mr. R. Rakhesh
8	311819103004	MAHMOOD SHAFEEQ. A	4	
9	311820103310	PRADEEP KUMAR K	3	
10	311820103308	MOHAMED YUSUF ARSHATH A	3	
11	311819103302	MOHAMED NATHEEM MANSOOR N	4	Mr. C. Navaneetha Krishnan
12	311821103301	MOHAMED KAIF	3	
13	311820103001	HABEEB MUSTHAF A M N	3	
14	311821103004	SANDESH KUMAR K	2	
15	311819103304	VEERAKUMAR M	4	Ms.P.Kavithra
16	311820103003	RAJESH N	3	
17	311820103306	LOGESHWARAN P	3	
18	311821103002	M MOHAMED HAROON	2	
19	311820103312	RASEED AHAMED M	3	Mr.R.B.Rakesh
20	311820103304	ISFAQ AHAMED B	3	
21	311820103312	MOHAMED FAHIM S	3	
22	311820103301	ADIL SIRAJ C P	3	
23	311819103303	THASRUDEEN R	4	Mrs. V. Janaki
24	311820103303	AHAMED RISWAN.M	3	
25	311820103004	YOGARAJ M	3	
26	311820103307	MOHAMED JASSIM	3	
27	311819103006	SHAHITH ASLAM S	4	Mr. R. Emilreyan
28	311819103005	RIYAS AHAMED. A	4	
29	311820103311	PRIYATHARSAN	3	
30	311820103302	AFSAR HAMEED	3	
31	311819103305	MOHAMED NOOHU ADHIL P R	4	



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HoD / Civil
(Dr. Someswaran R.)

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DEPARTMENT OF CIVIL ENGINEERING

Department wise Mentor and Mentees, Mentees Issues and Action Taken Report

Sl. No	Reg.No	Name of the Student	Yr	Date Interacted	Mentor	Issue Discussed	Action Taken / Outcome
1	311821103001	Mohamed Faizal	II	08-09-2022, 21-10-2022	Dr R.Someswaran	IAT Result.	Meet the concern subject faculty about important question and try to read it on regular basis.
2	311821103003	Sandeshkumar K	II	26-09-2022 08-10-2022, 03-12-2022	Mr C Navaneethakrishnan	Online course registration and Internship.	Student attended online internship.
3	311821103301	Mohamed Kaif	II	26-09-2022 04-11-2022, 03-12-2022	Mr C Navaneethakrishnan	Discussed about difficult subjects.	Discussed with class advisor and subject faculties for doubt clearing session.
4	311820103001	Habeeb Musthafa M.N	III	22-08-2022 31-10-2022, 03-12-2022	Mr C Navaneethakrishnan	Not regular to class.	Informed to academic head and parents, letter was taken from student for regular attendance.
5	311820103307	Mohamed Jassim	III	21-08-2022 07-10-2022, 07-11-2022	Mrs V Janaki	Online course registration.	Student registered eighth semester subject as a preregistered course since he doesn't have any arrears.
6	311820103004	Yogaraj M	III	15-09-2022 14-10-2022, 1-11-2022	Mrs V Janaki	Discussed about absence during IAT exam.	Student all the exams.
7	311821103302	Mohamed Haroon	II	30-08-2022, 13-09-2022 20-09-2022, 10-10-2022	Mrs. Kavithra P	Concentrate more in EPC classes.	Student wrote EPC well.
8	311820103306	Logeshwaran P	III	30-08-2022 13-09-2022, 27-10-2022	Mrs. Kavithra P	Discussed about active participation in department activities.	Student is a member of Symposium Organizing Committee.
9	311820103308	Mohamed Yusuf Arshath	III	20-08-2022 26-09-2022, 10-10-2022	Mr. Rakshesh R	IAT result and action to improve result.	Student concentrate in EPC class and wrote answers.
10	311820103302	Afsar Haneed	III	11-08-2022, 15-10-2022	Mr. R.Emilreyan	Discussed leave issues.	Informed to Students affairs head and now student is regular to classes.

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HOD / Civil

(Dr. Someswaran R.)

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 Sineseri, Chennai - 603 103.



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A. J. COLLEGE OF ENGINEERING
SIRUSERI IT PARK, OMR, CHENNAI 603 103

STUDENTS DATA BOOK

NAME OF THE STUDENT : SYED HIFZUL RAHMAN . F
DEPARTMENT : B.E (ELECTRICAL AND ELECTRONICS ENGINEERING)
REGISTER NUMBER : 311891105013
REGULATION : 2021
PERIOD OF STUDY : 2021 - 2025

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STUDENT'S DATA

DEGREE: B.E / B.Tech

DEPARTMENT: FEE

BATCH: 2021 - 2025

Academic Period:

1. PERSONAL DETAILS:

1.	Name (in block Letters)	: SYED HIFZUL RAHMAN . F							
2.	Roll No	: 21UGEEE12							
3.	Anna University Reg.No	: 311821105013							
4.	Date of Birth	: 13-06-2004	Age: 17						
5.	Place of Birth	: CHENNAI	Aadhaar No: 237750269083						
6.	Blood Group	: A+ve							
7.	Mother tongue:	URDU	Nationality:		INDIAN	Religion:			MUSLIM
8.	Community:	OC	BC	MBC	BCM	SC	SCA	ST	
9.	Email id:	hifzulrahman871@gmail.com			Student Mobile No: 8610067157				
10.	Bank Name:	KARNATAKA BANK LTD		Account No: 4642500102483001		Branch: CATHEDRAL ROAD			
11.	Face book /Twitter id:	-							
12.	Communication Address:	#33/66 LATHURAM STREET, MOUNT ROAD, CHENNAI - 600 002 Pin code: 600 002			Permanent Address: #33/66 LATHURAM STREET, MOUNT ROAD, CHENNAI Pin code: 600 002				

2. EDUCATIONAL QUALIFICATIONS:

Details	SSLC		HSC / Diploma		
Name of the Institution:	D. AHMED ALI PARPIA MEM MATRIC HR SEC SCH		D. AHMED ALI PARPIA MEM MATRIC HR SEC SCHOOL		
Address:	#2, PACHAIAPPAN STREET, MOUNT ROAD, CH-2		Address: #2, PACHAIAPPAN STREET, MOUNT ROAD, CH-2		
Medium of Education:	ENGLISH MEDIUM		ENGLISH MEDIUM		
Total Marks:	454 / 500		551.76 / 600		
Subject Marks:	Maths	Science	Maths	Physics	Chemistry
	95	88	88.50	92.50	89.93
Percentage:	90.8%		91.96%	Cut-off Mark:	179.715
Year of Passing:	2019		2021		

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Document Date: 23-05-2019

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3. Identification Marks :

1. A MOLE IN LEFT HAND

2. SCAR ON THE FACE

4 Area of Interest: Govt. Sector Employment / Higher studies / Entrepreneurship / any other
Govt. Sector Employment

5. Extracurricular Activities(Area of Interest): studying about electronic appliances

6. Future Plan (Describe in few words): I HAVE TAKEN EEE BRANCH SO, I HAVE DECIDED TO STUDY WELL AND JOIN A BIG ELECTRONICS COMPANIES IN PLACEMENT

7. Sports/ other Talents: - OF COLLEGE WITH MY LEARNING SKILL AND TALENT

8 Family Details:

Relationship	Father	Mother	Guardian
Name:	SYED FAZIUDEEN	RAYEES BEGIUM	-
Qualification:	10 th PASS	5 th PASS	-
Occupation:	TAILOR	HOUSE WIFE	-
Office Address:	-	-	-
Annual Income:	90,000	-	-
Email Id:	-	-	-
Mobile No:	9952984521	9360225744	-

9. Siblings, if any:

	Brother / Sister - 1	Brother / Sister - 2
Name:	SYED THJAMMUL HUSSAIN	REHBARIN SHAZAMA
Qualification:	B.E	11 th **
School / College/ Occupation:	MOHAMMED SATHAK A.J COLLEGE OF ENGINEERING	D.AHMED ALI PARIPI MEM.MAT. HR. SCHOOL
Email Id:	tajuhussain786@gmail.com	-
Mobile No:	6380401450	-

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SEMESTERWISE ACADEMIC PERFORMANCE: SEM - 3

S. No.	Subject	Asst-1 %	Asst-2 %	Asst-3 %	Internal Marks	Univ. Grade	Month & Year of Passing
1.	FE3303 ELECTRICAL MACHINE I	94	98	96		A	
2.	MA3303 PCF	96	100	100		A	
3.	EE3301 EMF	100	98	98		A+	Nov
4.	EE 3302 DLC	86	94	78		A	Dec 2022
5.	EC3301 EDC	90	82	86		A	
6.	CS3354 C & DS	96	96	98		A	
% of Attendance		99		100	Overall GPA	8.58	
Remarks of the Mentor if any with Sign and date		Good. Can concentrate on mini projects, paper presentation etc. <i>[Signature]</i>					
Remarks of the HOD with Sign and date		Good attendance Skill can do better in academics <i>[Signature]</i> 22/12/22					

Details of In-plant training, Internship training, Value added course, Seminars, Workshop, Symposium, Sports, Mini projects and others attended/done/participated by the student during ^{Third} First semester(I)

Name of the Event	Location	From	To	Duration	Outcome
ONLINE INTERNSHIP TRAINING	VERZEO, BENGALURU KARNATAKA	1-9-22	31-10-22	2-months	
ONLINE COURSE	VERZEO, BENGALURU KARNATAKA	1-9-22	31-10-22	2-months	
PYTHON 3-4-3 TRAINING	MSAJCE, IIT BOMBAY	.	27-10-22	SEM-3	
NAAN MUDHALVAN MICROSOFT OFFICE	MSAJCE	.	.	SEM-3	
PROJECT EXPO EV CHARGER	MSAJCE	28/10/22	.	SEM-3	

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Document Date: 23-05-2019

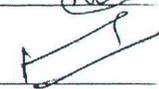
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SEMESTERWISE ACADEMIC PERFORMANCE: SEM - 4

S. No.	Subject	Asst-1 %	Asst-2 %	Asst-3 %	Internal Marks	Univ. Grade	Month & Year of Passing
1.	EE 3405 - Em-li	97	97	98		A	
2.	EE 3404 - MPMC	92	100	73		A	
3.	EE 3401 - TED	90	90	97		A	April
4.	EE 3403 - M&I	97	100	100		B+	May 22-23
5.	EE 3457 - EVS	64	86	87		A	
6.	EE 3402 - LIC	88	97	97		A+	
% of Attendance					Overall GPA	8.5	
Remarks of the Mentor if any with Sign and date		Very Good Keep it up. AIM to get labk 					
Remarks of the HOD with Sign and date		Concentrate in EVS 					

Details of In-plant training, Internship training, Value added course, Seminars, Workshop, Symposium, Sports, Mini projects and others attended/done/participated by the student during First semester(I)

Name of the Event	Location	From	To	Duration	Outcome


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COUNSELLING DETAILS

S.No.	Date	Points Discussed	Signature	
			Student	Mentor
1.	22/4/22	Good. Try to get above 90 marks in all the subjects.	Hijjal	H. Sathak
2.	7/5/22	Good. ^{Try to get} More above 90 marks	Hijjal	H. Sathak
3.	18/5/22	Good Performance	Hijjal	H. Sathak
4.	25/5/22	Try to get more marks or above 90 marks in all the subjects	Hijjal	H. Sathak
5.	3/6/22	Good Performance. Be Concentrate on professional English.	Hijjal	H. Sathak
6.	11/6/22	to get above 90 marks in EG and Professional English	Hijjal	H. Sathak
7.	18/6/22	to gain knowledge on online courses and NPTEL	Hijjal	H. Sathak
8.	16/9/22	Present papers in Symposium	Hijjal	H. Sathak
9.	10/11/22	Concentrate on studies to get maximum grade and try to do mini projects.	Hijjal	H. Sathak
10.	16/2/23	Participate in many events	Hijjal	H. Sathak
11.	28/3/23	Aim for Academic Rank in AU	Hijjal	H. Sathak


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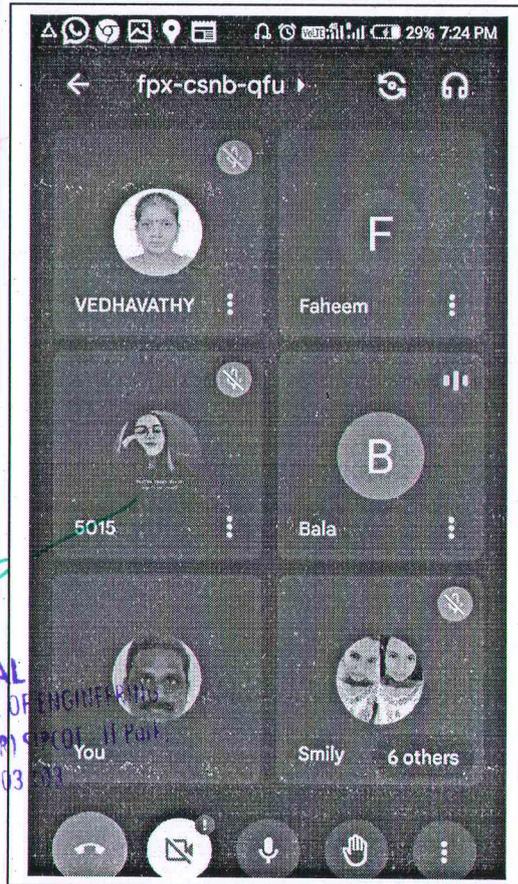
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REPORT ON EVENT

Department:	DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
Type of Event:	Meeting
Event Title:	Parents Teachers Meeting
Date & Time:	26.11.2022 & 7:00pm to 7:45 pm
Venue/Mode (Platform):	Online Mode (Google meet)
Chairperson:	Dr. Balakrishnan, Prof/Chemistry & Academic Coordinator- MSAJCE
Head of the Department:	Dr. Vedhavadhy, Prof, HoD/CSE - MSAJCE
Coordinator(s):	Mr. Rajasekhar, Asst. Prof/CSE – MSAJCE
Details of Participants:	25 students and their parents participated in the meeting out of 103 students (2019-2023, 2020-2024)
Write-up on Event	Department of Computer Science and Engineering conducted the First Parents Teachers meeting for the CSE students on 26.11.2022 from 7:00 pm to 7:45 pm under the presence of Chairperson Dr. Balakrishnan, Head of the department Dr. Vedhavadhy, class advisor and subject handling faculty. In this meeting HOD shared individual students attendance, internal assessment performance, attendance percentage and their activities and behavior to their parents and parents also shared their views to the HOD which was noted by the class advisor

Photographs



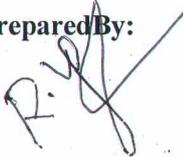
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Feedback from the participants

- ✓ They asked for the marks, attendance and university examinations of the students
- ✓ some of the parents insisted to follow the covid 19 instructions
- ✓ Discussed about EPC classes

Prepared By:

Signature



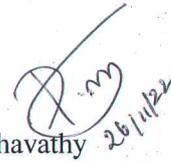
Name: Mr.Rajasekar

Designation: Assistant Professor

Date: 26.11.22

Chair Person

Reviewed/Forwarded by:



Dr.Vedhavathy

Prof&HoD/ CSE

26.11.22



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ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

14

Branch Name **B.E. Computer Science and Engineering**

emes ter	Subject Code	Subject Name	Exam Date	Session
01	HS8151	Communicative English	29-DEC-22	A.N.
01	GE8152	Engineering Graphics	09-JAN-23	A.N.
01	GE8151	Problem Solving and Python Programming	10-JAN-23	A.N.
01	CY8151	Engineering Chemistry	11-JAN-23	A.N.
01	PH8151	Engineering Physics	12-JAN-23	A.N.
01	MA8151	Engineering Mathematics - I	13-JAN-23	A.N.
02	GE8291	Environmental Science and Engineering	02-JAN-23	A.N.
02	MA8251	Engineering Mathematics - II	06-JAN-23	A.N.
02	BE8255	Basic Electrical, Electronics and Measurement Engineering	09-JAN-23	F.N.
02	PH8252	Physics for Information Science	10-JAN-23	F.N.
02	CS8251	Programming in C	11-JAN-23	F.N.
02	HS8251	Technical English	13-JAN-23	F.N.
03	CS8392	Object Oriented Programming	12-DEC-22	F.N.
03	MA8351	Discrete Mathematics	15-DEC-22	F.N.
03	CS8391	Data Structures	21-DEC-22	A.N.
03	CS8351	Digital Principles and System Design	23-DEC-22	F.N.
03	EC8395	Communication Engineering	26-DEC-22	F.N.
04	CS8494	Software Engineering	10-DEC-22	A.N.
04	CS8493	Operating Systems	12-DEC-22	A.N.
04	CS8451	Design and Analysis of Algorithms	13-DEC-22	A.N.
04	CS8492	Database Management Systems	26-DEC-22	A.N.
04	MA8402	Probability and Queuing Theory	04-JAN-23	A.N.
04	CS8491	Computer Architecture	06-JAN-23	F.N.
05	MA8551	Algebra and Number Theory	08-DEC-22	F.N.
05	CS8591	Computer Networks	13-DEC-22	F.N.
05	CS8501	Theory of Computation	15-DEC-22	A.N.
05	CS8592	Object Oriented Analysis and Design	17-DEC-22	F.N.
05	EC8691	Microprocessors and Microcontrollers	23-DEC-22	A.N.
05	CTL553	Telecommunication Network Management	29-DEC-22	F.N.
05	OBT551	Introduction to Bioenergy and Biofuels	29-DEC-22	F.N.
05	OCH551	Industrial Nanotechnology	29-DEC-22	F.N.
05	OCE552	Geographic Information System	29-DEC-22	F.N.
05	OBT552	Basics of Bioinformatics	29-DEC-22	F.N.
05	OMD551	Basic of Biomedical Instrumentation	29-DEC-22	F.N.
05	OCE551	Air Pollution and Control Engineering	29-DEC-22	F.N.
05	OML552	Microscopy	29-DEC-22	F.N.
05	OTL552	Digital Audio Engineering	29-DEC-22	F.N.
05	OME551	Energy Conservation and Management	29-DEC-22	F.N.

Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule



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 Siruseri, Chennai - 603 103

FN: FORENOON (10.00 A.M. TO 01.00 P.M.)
 AN: AFTERNOON (2.00 P.M. TO 5.00 P.M.)



ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Computer Science and Engineering**

<i>emes ter</i>	<i>Subject Code</i>	<i>Subject Name</i>	<i>Exam Date</i>	<i>Session</i>
05	OBT553	Fundamentals of Nutrition	29-DEC-22	F.N.
05	OMD552	Hospital Waste Management	29-DEC-22	F.N.
	CME553	Industrial Safety Engineering	29-DEC-22	F.N.
05	OBM552	Medical Physics	29-DEC-22	F.N.
05	OBT554	Principles of Food Preservation	29-DEC-22	F.N.
05	OMF551	Product Design and Development	29-DEC-22	F.N.
05	OAN551	Sensors and Transducers	29-DEC-22	F.N.
05	OEC552	Soft Computing	29-DEC-22	F.N.
05	OMD553	Telehealth Technology	29-DEC-22	F.N.
05	OIM551	World Class Manufacturing	29-DEC-22	F.N.
06	CS8603	Distributed Systems	14-DEC-22	A.N.
06	CS8651	Internet Programming	16-DEC-22	A.N.
06	CS8602	Compiler Design	17-DEC-22	A.N.
06	CS8601	Mobile Computing	19-DEC-22	A.N.
	CS8072	Agile Methodologies	22-DEC-22	F.N.
06	IT8071	Digital Signal Processing	22-DEC-22	F.N.
06	IT8072	Embedded Systems	22-DEC-22	F.N.
06	CS8075	Data Warehousing and Data Mining	22-DEC-22	F.N.
06	GE8075	Intellectual Property Rights	22-DEC-22	F.N.
06	IT8076	Software Testing	22-DEC-22	F.N.
06	CS8077	Graph Theory and Applications	22-DEC-22	F.N.
06	CS8691	Artificial Intelligence	28-DEC-22	F.N.
07	CS8791	Cloud Computing	09-DEC-22	F.N.
07	CS8079	Human Computer Interaction	14-DEC-22	F.N.
07	CS8083	Multi-core Architectures and Programming	14-DEC-22	F.N.
07	CS8088	Wireless Adhoc and Sensor Networks	14-DEC-22	F.N.
	CE8071	Disaster Management	14-DEC-22	F.N.
	CS8071	Advanced Topics on Databases	14-DEC-22	F.N.
07	CS8073	C# and .Net Programming	14-DEC-22	F.N.
07	MG8591	Principles of Management	16-DEC-22	F.N.
07	GE8074	Human Rights	20-DEC-22	F.N.
07	GE8072	Foundation Skills in Integrated Product Development	20-DEC-22	A.N.
07	CS8092	Computer Graphics and Multimedia	21-DEC-22	F.N.
07	IT8075	Software Project Management	27-DEC-22	A.N.
07	GE8077	Total Quality Management	27-DEC-22	A.N.
07	IT8074	Service Oriented Architecture	27-DEC-22	A.N.
07	CS8082	Machine Learning Techniques	28-DEC-22	A.N.
07	CS8081	Internet of Things	28-DEC-22	A.N.

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Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule

FN: FORENOON (10.00 A.M. TO 01.00 P.M.)
AN: AFTERNOON (2.00 P.M. TO 5.00 P.M.)



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ANNA UNIVERSITY, CHENNAI - 600 025
TIME TABLE-B.E./B.Tech./B.Arch. DEGREE EXAMINATIONS
NOVEMBER/DECEMBER-2022
(REGULATIONS-2017)
CHOICE BASED CREDIT SYSTEM (CBCS)

Branch Name **B.E. Computer Science and Engineering**

Sl. No.	Subject Code	Subject Name	Exam Date	Session
07	OEC753	Signals and Systems	30-DEC-22	F.N.
07	OBM752	Hospital Management	30-DEC-22	F.N.
07	OAI751	Agricultural Finance, Banking and Co-operation	30-DEC-22	F.N.
07	OAN751	Low Cost Automation	30-DEC-22	F.N.
07	OBM751	Basics of Human Anatomy and Physiology	30-DEC-22	F.N.
07	OBT753	Introduction of Cell Biology	30-DEC-22	F.N.
07	OCY751	Waste Water Treatment	30-DEC-22	F.N.
07	OEC751	Electronic Devices	30-DEC-22	F.N.
07	OCE751	Environmental and Social Impact Assessment	30-DEC-22	F.N.
07	OEE751	Basic Circuit Theory	30-DEC-22	F.N.
07	OIE751	Robotics	30-DEC-22	F.N.
07	OME753	Systems Engineering	30-DEC-22	F.N.
07	OMF751	Lean Six Sigma	30-DEC-22	F.N.
07	OML752	Electronics Materials	30-DEC-22	F.N.
07	OEE752	Introduction to Renewable Energy Systems	30-DEC-22	F.N.
07	OCH752	Energy Technology	30-DEC-22	F.N.
07	OGI751	Climate Change and its Impact	30-DEC-22	F.N.
07	OME752	Supply Chain Management	30-DEC-22	F.N.
07	OPY751	Clinical Trials	30-DEC-22	F.N.
07	OEN751	Green Building Design	30-DEC-22	F.N.
07	OEC754	Medical Electronics	30-DEC-22	F.N.
07	OEC756	MEMS and NEMS	30-DEC-22	F.N.
07	CS8792	Cryptography and Network Security	04-JAN-23	F.N.
07	CS8091	Big Data Analytics	05-JAN-23	A.N.
08	CS8086	Soft Computing	09-DEC-22	A.N.
08	CS8085	Social Network Analysis	10-DEC-22	F.N.
08	IT8073	Information Security	10-DEC-22	F.N.
08	CS8087	Software Defined Networks	10-DEC-22	F.N.
08	EC8093	Digital Image Processing	10-DEC-22	F.N.
08	IT8077	Speech Processing	22-DEC-22	A.N.
08	CS8080	Information Retrieval Techniques	22-DEC-22	A.N.
08	CS8076	GPU Architecture and Programming	22-DEC-22	A.N.
08	CS8001	Parallel Algorithms	22-DEC-22	A.N.
08	CS8078	Green Computing	22-DEC-22	A.N.
08	GE8073	Fundamentals of Nano Science	22-DEC-22	A.N.
08	CS8084	Natural Language Processing	22-DEC-22	A.N.
08	CS8074	Cyber Forensics	07-JAN-23	A.N.
08	GE8076	Professional Ethics in Engineering	07-JAN-23	A.N.

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Candidates registered for 8th semester (advance) courses in 7th semester may refer to 8th semester schedule



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Department of Computer Science & Engineering

Year	No. of Students			% of Pass	No. of Script			% of Pass	Dept. Overall % of Pass	
	Reg	Pass	Fail		Reg	Appeared	Pass		Student wise	Script wise
II Yr(IV SEM)	64	22	42	34%	585	572	499	87%	49%	
III Yr(VI SEM)	51	16	35	31%	510	510	434	85%		
IV Yr(VIII SEM)	52	44	8	85%	468	468	458	98%	90%	
Total	167	82	85	49%	1563	1550	1391	90%		

II Year/III Sem

Subject code	Subject	Faculty	No. of students			Fail	Overall Class performance		
			Reg	Pass	% of Pass		Details	Total	%
CS3301	DS	Dr.T.R.Vedhavathy	64	58	91%	6	All Pass	22	34%
CS3352	FDS	Mr.R.Rajasekar	64	55	86%	9	1 SUB FAIL	18	
CS3391	OOPS	Mr.J.M. HamerShield	64	38	59%	26	2 SUB FAIL	16	
CS3351	DPCO	Mrs.Jeyanthi	64	62	97%	2	3 SUB FAIL	6	
MA3354	DM	Dr.Rajkumar	64	29	45%	35	4 SUB FAIL	2	

III Year/IV Sem

Subject code	Subject	Faculty	No. of students			Fail	Overall Class performance		
			Reg	Pass	% of Pass		Details	Total	%
CS8501	TOC	Mrs.Pandeeswari	51	43	84%	8	All Pass	16	31%
CS8591	CN	Dr.Sivaranjani	51	39	76%	12	1 SUB FAIL	15	
CS8592	OOAD	Mrs.Viswaja	51	48	94%	3	2 SUB FAIL	11	
EC8691	MPMC	Mr.Ashok kumar	51	35	69%	16	3 SUB FAIL	3	
DME551	ECM	Mr.Mohan	51	48	94%	3	4 SUB FAIL	5	
MA8551	ANT	Dr.Raj Kumar	51	20	39%	31	5 SUB FAIL	1	

IV Year/ VII Sem

Subject code	Subject	Faculty	No. of students			Fail	Overall Class performance		
			Reg	Pass	% of Pass		Details	Total	%
CS8079	HCI	Mr.Ashok Kumar	52	49	94%	3	ALL PASS	44	85%
CS8791	CC	Ms.B.Pavithra	52	51	98%	1	1 SUB FAIL	5	
CS8792	CNS	Mrs.S.Ayisha	52	51	98%	1	2 SUB FAIL	2	
IX8001	HXR	Mr.R.Rajasekar	52	52	100%	0	3 SUB FAIL	1	
VA018	VA	Mrs.T.Sumana	52	52	100%	0	4 SUB FAIL	0	
IG8591	POM	Mrs.S.Gayathri	52	51	98%	1	5 SUB FAIL	0	
IMF751	LSS	Mr.K.K.Vinothkumar	52	47	90%	5	>5 SUB FAIL	0	

Faculty In - Charge

Sign of the HoD with Date

PRINCIPAL

Head Academics

MOHAMED SATHAK A.J. COLLEGE OF ENGINEERING

Rev. No.: No. 34, Rajiv Gandhi Road, (OMR) SIPCOT - II Park, Siruseri, Chennai - 603 103. Rev. Date: 04.01.21



HoD & Faculty Meeting

Minutes of Meeting

07.10.2022

Venue: Principal Room

The following Members were attended and the following points were discussed in the meeting

Name	Signature
Dr.K.S.Srinivasan - Principal	
Dr.G.Ramesh – Head / Administration	
Dr.I.Manju – Head – Technology Centre	
Dr.A.Balakrishnan – Head / Academics	
Mr.Weslin – HoD / IT	
Dr.M.Sivakumar – HoD / ECE	
Dr.S.Prasath – HoD / Mech	
Dr.R.Someswaran – HoD / Civil	
Dr.J.Jeha – HoD / EEE	
Dr.Vedhavathy – HoD / CSE	
Mrs.Anushiya AP / ECE	
Mr.Rajasekar AP / CSE	
Mr.Ashokkumar AP / ECE	
Mr.K.K.Vinothkumar AP / Mechanical	
Mrs.E.Jayanthi AP / ECE	
Mr.C.Vengatesh AP / EEE	
Mrs.Pavithra AP / CSE	
Mrs.Jabamalar AP / IT	
Mrs.Viswajaa	

PRINCIPAL
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Siruseri, Chennai - 603 103.



- Academic performance is not satisfactory and also attendance not improved more than 75%.
- Assessment tests are not conducted in proper manner.
- HoD and Concern subject faculty requested to check the students in hall wise frequently during IAT Examinations.
- Academic Audit will be conducted soon. Faculty are requested to ready for the audit.
- Results to be improved.

Various faculties given their suggestion to improve the result.

Mrs. Anushiya : In a class, we have to separate into two groups like bright and dull students. Cancel the COE classes for dull students and ask them to concentrate only theory subjects.

Mr.Rajasekar : Identify the theory & problematic subjects. Provide more concentration to the problematic subjects.

Dr.Vedhavathy : Cancel afternoon Karma/Spoken tutorial / COE classes and mentors have to go to their respective classes and conduct the study hour.

Principal Sir : Due to the lateral entry students only the results falls. Out of 71 students 5 students only passed in last Anna University Examination. We have to concentrate the lateral entry students.

Mr.Ashok : First attendance percentage of the students have to improve. We have to minimise the absentees.

Mr.K.K.Vinodhkumar : For dull students we have to minimize teaching method and improve the coaching.

Mrs.Jayanthi : We have to provide proper mentoring to the students directly & Personally. We have to reach out every parent.

Mr.Rajasekar : Every student should write at least 5 questions in a unit.

Mr.Vengatesh : We have to provide Crispy notes for slow learners.

Mrs.Pavithra : Find the best class and motivate the students by providing some prizes. Assessment toppers find and place in your notice board with their photo.

Jabamalar: Monitor the hostel students. Monitor their attendance & academic performance.

If any poor performers ask the students to stay up to 5.00 pm and ask them to study in their class room itself.

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Siruseri, Chennai - 603 103



Dr.I.Manju : Subject handling teachers meeting to be conducted to know about the students for all faculty.

Mrs.Viswaja : During EPC classes students should bring hard copy of notes only. Strictly not allowed to bring their mobiles for study.

Principal Sir : Monday onwards split the students based on their number of arrears.

Teachers carrying text book to the class it is not advisable.

All faculty are requested to upload their lesson plan, question bank, five units notes, lab manual etc as early as possible.

28th & 29th will conduct Technical Symposium. From 31st October 2022 onwards EPC classes will be conducted.

The following faculty are nominated to monitor the student's attendance

Dr.Ramesh – for CSE

Dr.A.Balakrishnan – for IT

Mr.Suresh – for EEE

Dr.K.V.Reshmi – for ECE

Mrs.K.Saipriya – for Civil

Dr.I.Manju – for Mech.

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