VIII SEMESTER SYLLABUS

TECHNICAL SEMINAR

Sub Code :	**21SCS81**	**IA Marks :**	**100**
Hrs/ Week :	**4 (Self Study)**	**Exam Hours :**	
Credits :	**2**	**Exam Marks:**	**00**
Mode of Delivery:	**BM**	**Total Hours :**	**45**

Course Objectives:

At the end of the course the student will be able to:

- Demonstrate a sound technical knowledge of their selected Seminar topic.
- Undertake problem identification, formulation and solution.
- Design engineering solutions to complex problems utilising a systems approach.
- Communicate with engineers and the community at large in written an oral forms.
- Demonstrate the knowledge, skills and attitudes of a professional engineer.

Course Outcomes:

Each student, under the guidance of a Faculty, is required to:

CO1: Present the seminar on the selected topic orally and/or through power point slides.

CO2: Answer the queries and involve in debate/discussion.

CO3: Submit two copies of the typed report with a list of references.

CO4: The participants shall take part in discussion to foster friendly and stimulating environment in which the students are motivated to reach high standards and become self-confident.

CO5: Demonstrate the seminar with sound technical knowledge and communication skills

Instructions:

Students in consultation with the guide/s shall carry out literature survey/ visit industries to finalize the topic of the Seminar. Subsequently, the students shall collect the material required for the selected Seminar, prepare synopsis and narrate the methodology to carry out the Seminar work

Scheme of Examination:

CIE marks for the project report and seminar shall be awarded (based on the quality of report and presentation skill, participation in the question and answer session by the student) by the committee constituted for the purpose by the Head of the Department. The committee shall consist of two faculty from the department with the senior most acting as the Chairman

MOOC-3 (RESEARCH METHODOLOGY)

Sub Code :	**21SCSS03**	**IA Marks :**	**50**
Hrs/ Week :	**2 (Self Study)**	**Exam Hours :**	
Credits :	**1**	**Exam Marks:**	**00**
Mode of Delivery:	**BM**	**Total Hours :**	**45**

Course Objectives:

- To improve learnability
- Acquire additional knowledge in the field of study
- Skill development
- Industry readiness
- Increased confidence level

Course Outcomes:

On completion of this course, students will be able to:

CO1: Improve learnability

CO2: Acquire additional knowledge in the field of study

CO3: Develop the skill

CO4: Industry ready

CO5: Have more confidence level

About the Course:

- A common Online MOOC/SWAYAM/COURSERA Course is offered in Blended mode.
- The MOOC Coordinator will recommend a department specific common course in MOOC/SWAYAM/COURSERA to all the students of the batch.
- The assessment will be taken by the MOOC Coordinator for 25 Marks at the end of the Course and the remaining 25 marks will be awarded for the Course Completion.
- The student must attend all continuous assessment taken by the MOOC/COURSERA Course Faculty.

Assessment Method for MOOC/SWAYAM/COURSERA Course:

- The Department Faculty Coordinator for the MOOC/SWAYAM/COURSERA Course has to recommend a common course for the students to register the MOOC/SWAYAM/COURSERA Course for a Specific Title.

- The Students have to take all continuous assessment as recommended by the Course Faculty in the MOOC/SWAYAM/COURSERA Course for the internal assessment of 50 Marks.
- The Department Faculty Coordinator for the MOOC/SWAYAM/COURSERA Course is responsible to conduct Assessment (MCQs) for 25 Marks in the Internal Assessment of 50 Marks.

PROJECT (WITH PATENT APPLICATION)

Sub Code :	**21SCS82**	**IA Marks :**	**100**
Hrs/ Week :	**24**	**Exam Hours :**	
Credits :	**12**	**Exam Marks:**	**100**
Mode of Delivery:	**RM**	**Total Hours :**	**45**

Course Objectives:

- Demonstrate a sound technical knowledge of their selected project topic.
- Undertake problem identification, formulation and solution.
- Design engineering solutions to complex problems utilising a systems approach.
- Communicate with engineers and the community at large in written an oral forms.
- Demonstrate the knowledge, skills and attitudes of a professional engineer.

Course Outcomes:

Each student, under the guidance of a Faculty, is required to:

CO1: Present the seminar on the selected Project orally and/or through power point slides.

CO2: Answer the queries and involve in debate/discussion.

CO3: Submit the typed report with a list of references.

CO4: The participants shall take part in discussion to foster friendly and stimulating environment in which the students are motivated to reach high standards and become self-confident.

CO5: Demonstrate the knowledge

Instructions:

Students in consultation with the guide/s shall carry out literature survey/ visit industries to finalize the topic of the Project. Subsequently, the students shall collect the material required for the selected project, prepare synopsis and narrate the methodology to carry out the project work

1. Two reviews will be conducted (excluding the zeroth review and final review). Apart from this the guides have to review the project and the project report as per the specified guidelines.

2. The students have to submit the abstract (as per the given format) and based on willingness of the guide the students are permitted for Project work.

3. The assessments will be done in the scaling of 1-5 for each component of the project done through rubrics.

Scheme of Examination:

CIE marks for the project report and seminar shall be awarded (based on the quality of report and presentation skill, participation in the question and answer session by the student) by the committee constituted for the purpose by the Head of the Department. The committee shall consist of two faculty from the department with the senior most acting as the Chairman.

Distribution of the Marks:

IA Mark: 100 Marks

External Exam: 100 Marks

Total: 200 Marks