

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Programme Name/s | : Automobile Engineering./ Artificial Intelligence/ Artificial Intelligence and Machine Learning/<br>Automation and Robotics/<br>Cloud Computing and Big Data/ Civil Engineering/ Chemical Engineering/ Computer Technology/<br>Computer Engineering/ Civil & Rural Engineering/ Construction Technology/ Computer Science &<br>Engineering/<br>Digital Electronics/ Data Sciences/ Electrical Engineering/ Electronics & Tele-communication Engg./<br>Electrical and Electronics Engineering/ Electrical Power System/ Electronics & Communication Engg./<br>Electronics Engineering/<br>Computer Hardware & Maintenance/ Industrial Electronics/ Information Technology/ Computer Science<br>& Information Technology/<br>Civil & Environmental Engineering/ Mechanical Engineering/ Mechatronics/ Production Engineering/<br>Computer Science/ Electronics & Computer Engg. |
| Programme Code   | : AE/ AI/ AN/ AO/ BD/ CE/ CH/ CM/ CO/ CR/ CS/ CW/ DE/ DS/ EE/ EJ/ EK/ EP/<br>ET/ EX/ HA/ IE/ IF/ IH/ LE/ ME/ MK/ PG/ SE/ TE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Semester         | : Fifth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Course Title     | : SEMINAR AND PROJECT INITIATION COURSE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Course Code      | : 315003                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

**I. RATIONALE**

Most of the diploma graduates lack the confidence and fluency while presenting papers or interacting verbally and expressing themselves with a large gathering. Seminar presentation boosts the confidence of the students and prepares them precisely for facing the audience, interviews and group discussions. The course on seminar is to enhance student's ability in the art of academic writing and to present it. It also helps broaden the minds of the participants. Through this course on Seminar, students will develop new ideas and perspectives of the subject /themes of emerging technologies and services of their area of studies. Project initiation enhances project planning skill which establishes measurable objectives and interaction skills.

**II. INDUSTRY / EMPLOYER EXPECTED OUTCOME**

The aim of this course is to help the student to attain the following industry identified competency through various teaching learning experiences: Present a seminar on the selected theme/area of study effectively and confidently to the specific audience and stakeholders. Plan innovative solutions independently or collaboratively to the identified problem statement.

**III. COURSE LEVEL LEARNING OUTCOMES (COS)**

Students will be able to achieve & demonstrate the following COs on completion of course based learning

- CO1 - Identify topics of seminar presenting to the large gathering at the institute/conference.
- CO2 - Collect relevant and updated research-based data and information to prepare a paper of seminar presentation.
- CO3 - Apply presentation skills.
- CO4 - Create conducive environment for learning and discussion through seminar presentation.
- CO5 - Identify a problem statement and establish the action plan for the successful completion of the project.

**IV. TEACHING-LEARNING & ASSESSMENT SCHEME**

| Course Code | Course Title                          | Abbr | Course Category/s | Learning Scheme          |    |    |     |     | Credits | Assessment Scheme |           |       |       |     |                  |     |       |     |             |     |             |     |     |
|-------------|---------------------------------------|------|-------------------|--------------------------|----|----|-----|-----|---------|-------------------|-----------|-------|-------|-----|------------------|-----|-------|-----|-------------|-----|-------------|-----|-----|
|             |                                       |      |                   | Actual Contact Hrs./Week |    |    | SLH | NLH |         | Paper Duration    | Theory    |       |       |     | Based on LL & TL |     |       |     | Based on SL |     | Total Marks |     |     |
|             |                                       |      |                   | CL                       | TL | LL |     |     |         |                   | Practical |       |       |     |                  |     |       |     |             |     |             |     |     |
|             |                                       |      |                   |                          |    |    |     |     |         |                   | FA-TH     | SA-TH | Total |     | FA-PR            |     | SA-PR |     | SLA         |     |             |     |     |
|             |                                       |      |                   |                          |    |    |     |     |         |                   |           |       | Max   | Max | Max              | Min | Max   | Min | Max         | Min |             | Max | Min |
| 315003      | SEMINAR AND PROJECT INITIATION COURSE | SPI  | AEC               | -                        | -  | 1  | 2   | 3   | 1       | -                 | -         | -     | -     | -   | 25               | 10  | 25@   | 10  | 25          | 10  | 75          |     |     |

**V. General guidelines for SEMINAR and Project Initiation**

- The seminar must be related to emerging trends in engineering / technology programme or may be inter/ multi-disciplinary, based on the industry expected outcomes of the programme.
- The individual students have different aptitudes and strengths. Therefore, SEMINAR should match the strengths of students. For this purpose, students shall be asked to select the TITLE (Theme) of SEMINAR they would like to prepare and present.
- Seminar titles are to be finalized in consultation with the faculty mentor.
- Seminar must involve logic development of applications of various technologies/ processes applicable in industry.
- Seminar must be assigned to the single student. However, support of other students may be sorted while presenting the seminar.
- Students are required to prepare using relevant software tools, write ups for presentation.
- Students shall submit One Hard copy and one Soft copy each of the presentation and may be encouraged to keep a recorded copy of the presentation made during the seminar.
- Batch of 3-4 students shall be formed for project initiation.
- Projects give a platform for the students to showcase an attitude of inquiry to identify the problem statement related to the programme. Students shall Identify the information suggesting the cause of the problem and possible solutions.
- Students shall study and assess the feasibility of different solutions and the financial implications.

- Students should collect relevant data from different sources (books/internet/market/suppliers/experts through surveys/interviews).
- Students shall prepare required drawings/ designs and detailed plan for the successful execution of the work.
- Students may visit the organisation pertaining to the problem statement as part of initial study.

#### VI.Guidelines for Seminar preparation and presentation :

Once the title/topic of a seminar has been finalized and allotted to the student, the teacher's role is important as guide, mentor and motivator, to promote learning and sustain the interest of the students.

Following should be kept in mind while preparing and presenting the seminar:

- **Seminar Orientation cum -briefing:** the seminar topics/themes should be innovative, novel and relevant to the curriculum of the programme, and also aligned to the expectations of industry.
- **Seminar Literature survey:** Information search and data collection: the information and data should be authentic, realistic and relevant to the curriculum of the programme.
- **Seminar Preparation, and presentation:** The seminar shall be present with suitable software tools and supporting handout/notes. The presentation of seminar should not be more than 20 minutes including Q-A session.

The following guidelines may be followed for Project Initiation

- **Establishing project scope:** Determine the boundaries of the project.
- **Defining project objectives:** Set clear and measurable objectives that align with the project's purpose.
- **Stakeholder identification and analysis:** Perform an exercise in identifying all stakeholders involved in the project and analyzing their needs and expectations.
- **Team Formation:** Carefully build a team with the necessary skills and expertise to execute the project successfully.
- **Documentation.** Create a project planner showcasing the action plan, define the project's scope, outline the project definition, and design of the project. The document has to be made available to all stakeholders

#### VII. Criteria of Assessment /Evaluation of Seminar

##### A. Formative Assessment (FA) criteria

The assessment of the students in the fifth semester Progressive Assessment (PA) for 50 marks is to be done based on following criteria.

##### A. Suggestive RUBRICS for assessment

| Sr. No. | Criteria                                  | Marks |
|---------|-------------------------------------------|-------|
| 1       | Selection Topic/Theme of seminar          | 05    |
| 2       | Literature review and data presentation   | 05    |
| 3       | Quality of Preparation and innovativeness | 05    |
| 4       | Q-A handling                              | 05    |
| 5       | Time Management                           | 05    |
| 6       | Seminar Presentation report               | 10    |

##### Rubrics for assessment of Project Initiation

| Sr. No. | Criteria                                                       | Marks |
|---------|----------------------------------------------------------------|-------|
| 1       | Selection of Theme of Problem Statement and its innovativeness | 05    |
| 2       | Stages of development of Action plan                           | 05    |
| 3       | Prototyping                                                    | 05    |

The total marks as per above out of 50, shall be converted in proportion of 25 marks.

##### B. Summative Assessment criteria/

The summative assessment of the students in the fifth semester End-Semester-Examination (ESE) for 50 marks is to be done based on following criteria.

This assessment shall be done by the Faculty.

Suggestive RUBRICS may be developed by the faculty

| Sr. No. | Criteria                                                           | Marks |
|---------|--------------------------------------------------------------------|-------|
| 1       | Quality of information/Knowledge presented in SEMINAR              | 10    |
| 2       | Creativity, Innovation in SEMINAR presentation                     | 10    |
| 3       | Response to the question during seminar presentation               | 10    |
| 4       | Establishment of Innovative Problem Statement and its presentation | 10    |
| 5       | Objectives of the project and action plan                          | 10    |

The total obtained marks shall be converted in proportion of 25 marks.

## VIII. Suggestive CO-PO Mapping

| Course Outcomes (COs) | Programme Outcomes (POs)                        |                          |                                          |                           |                                                                           |                            |                            | Programme Specific Outcomes* (PSOs) |       |
|-----------------------|-------------------------------------------------|--------------------------|------------------------------------------|---------------------------|---------------------------------------------------------------------------|----------------------------|----------------------------|-------------------------------------|-------|
|                       | PO-1<br>Basic and Discipline Specific Knowledge | PO-2<br>Problem Analysis | PO-3<br>Design/ Development of Solutions | PO-4<br>Engineering Tools | PO-5<br>Engineering Practices for Society, Sustainability and Environment | PO-6<br>Project Management | PO-7<br>Life Long Learning | PSO-1                               | PSO-2 |
| CO-1                  | 3                                               | 1                        | 0                                        | -                         | 2                                                                         | 2                          | 3                          |                                     |       |
| CO-2                  | 2                                               |                          | 2                                        | -                         | 2                                                                         | 1                          | 3                          |                                     |       |
| CO-3                  | 3                                               | 1                        | 1                                        | 2                         | 1                                                                         | 2                          | 3                          |                                     |       |
| CO-4                  | 2                                               | 0                        | 0                                        | 2                         | 1                                                                         | 2                          | 3                          |                                     |       |
| CO-5                  | 3                                               | 3                        | 3                                        | 2                         | 2                                                                         | 3                          | 3                          |                                     |       |

## VIII. Typographical instructions/guidelines for seminar preparation &amp; presentation

- The seminar PPT shall be computer typed (English- British)
- Text Font -Times New Roman (TNR), Size-12 point
- Subsection heading TNR- 12 point bold normal
- Section heading TNR- 12 capital bold
- Chapter Name/ Topic Name – TNR- 14 Capital
- All text should be justified. (Settings in the Paragraph)
- Different colors text/diagrams /tables may used
- The name of the candidate, diploma (department), year of submission, name of the institute shall be printed on the first slide of PPT.

## IX. Seminar and Project Initiation Report

On completion and presentation of Seminar, every student will submit a brief report which should contain the following:

- Cover Page (as per annexure 1)
- Title page (as per annexure 2)
- Certificate by the Guide (as per annexure 3)
- Acknowledgment (The candidate may thank all those who helped in the execution of the project).
- Abstract of Paper presented in the seminar (It should be in one page and include the purpose of the seminar & methodology if any .)
- Index
- List of Figures
- Introduction
- Literature Review
- Information/Chapters related to Seminar topic
- Advantages and Disadvantages
- Conclusion
- Project Initiation : a) Description of problem statement. b) Scope and objectives. c) State holder d) Platform/ Equipment/ Resources identification.
- Bibliography
- References

NOTE: Seminar report must contain only relevant – technology or platform or OS or tools used and shall not exceed 25-30 pages.

Details of Softcopy to be submitted:

The soft copy of seminar presentation is required to be provided on the back cover of the seminar report in clear packet, which should include the following folders and contents:

1. Presentation (should include a PPT about project in not more than 15 slides)
2. Documentation (should include a word file of the project report)

NOTE: Soft copy must be checked for any harmful viruses before submission.

## X. Sample Formats

1) Cover Page - Annexure-I

2) Index - Annexure-II

3) Assessment - Annexure-III

Annexure - I

MSBTE  
LOGO

**SEMINAR Report**

Institute  
Logo

“SEMINAR Title \_\_\_\_\_”

as a partial fulfilment of requirement of the

**THIRD YEAR DIPLOMA IN**

\_\_\_\_\_

Submitted by

Name of Student

Enrollment Number

FOR THE ACADEMIC YEAR 20\_\_20\_\_

**(H.O.D)**

**(Principal)**

**(Internal Guide)**

**(External Examiner)**

## Annexure - II

**Institute Name****(An Affiliated Institute of Maharashtra State Board of Technical Education)****Table of Contents**

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| <b>2.</b>      | Chapter-2 Literature review for the seminar topic/theme | <b>5</b>        |
| <b>3.</b>      | Chapter-3 -                                             |                 |
| -              | -                                                       |                 |
| -              | Seminar Report                                          |                 |
| -              | <b>Bibliography</b>                                     |                 |
| -              | <b>Referances</b>                                       |                 |

\*Students can add/remove/edit chapter names as per the discussion with their guide

## Annexure - III

## Format for SEMINAR and PROJECT INITIATION Assessment /Evaluation

| Formative Assessment   |                                           |                                                  |                                                     |                       |                          |                                        |                                                                         |                                               |                       |                   |                   |
|------------------------|-------------------------------------------|--------------------------------------------------|-----------------------------------------------------|-----------------------|--------------------------|----------------------------------------|-------------------------------------------------------------------------|-----------------------------------------------|-----------------------|-------------------|-------------------|
| CRITERIA AND WEIGHTAGE |                                           |                                                  |                                                     |                       |                          |                                        |                                                                         |                                               |                       |                   |                   |
| Enrollment No          | 1 Selection Topic/Theme of seminar<br>(5) | 2 Literature review and data presentation<br>(5) | 3. Quality of Preparation and innovativeness<br>(5) | 4 Q-A handling<br>(5) | 5 Time Management<br>(5) | 6. Seminar Presentation report<br>(10) | 7 Selection of Theme of Problem Statement and its innovativeness<br>(5) | 8 Stages of development of Action plan<br>(5) | 9. Prototyping<br>(5) | 10. Total<br>(50) | Scaled to<br>(25) |
|                        |                                           |                                                  |                                                     |                       |                          |                                        |                                                                         |                                               |                       |                   |                   |
|                        |                                           |                                                  |                                                     |                       |                          |                                        |                                                                         |                                               |                       |                   |                   |
|                        |                                           |                                                  |                                                     |                       |                          |                                        |                                                                         |                                               |                       |                   |                   |

| Summative Assessment   |                                                                |                                                        |                                                               |                                                                            |                                                   |               |                   |
|------------------------|----------------------------------------------------------------|--------------------------------------------------------|---------------------------------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------|---------------|-------------------|
| CRITERIA AND WEIGHTAGE |                                                                |                                                        |                                                               |                                                                            |                                                   |               |                   |
| Enrollment No          | 1. Quality of information/Knowledge presented in SEMINAR<br>10 | 2 Creativity, Innovation in SEMINAR presentation<br>10 | 3. Response to the question during seminar presentation<br>10 | 4 Establishment of Innovative Problem Statement and its presentation<br>10 | 5 Objectives of the project and action plan<br>10 | Total<br>(50) | Scaled to<br>(25) |
|                        |                                                                |                                                        |                                                               |                                                                            |                                                   |               |                   |
|                        |                                                                |                                                        |                                                               |                                                                            |                                                   |               |                   |



|                                                                |                                                                                                 |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Sign:</b><br><b>Name: -----</b><br><b>(Course Expert/s)</b> | <b>Sign:</b><br><b>Name: -----</b><br><b>(Program Head )</b><br><b>(Information Technology)</b> |
|                                                                |                                                                                                 |