CAPSTONE PROJECT

: Automobile Engineering./ Artificial Intelligence/ Artificial Intelligence and

Machine Learning/ Automation and Robotics/

Cloud Computing and Big Data/ Civil Engineering/ Chemical Engineering/

Computer Technology/

Computer Engineering/ Civil & Rural Engineering/ Construction Technology/

Computer Science & Engineering/

Programme Name/

Digital Electronics/ Data Sciences/ Electrical Engineering/ Electronics & Telecommunication Engg./

Electrical and Electronics Engineering/ Electrical Power System/ Electronics &

Communication Engg./ Electronics Engineering/

Computer Hardware & Maintenance/ Industrial Electronics/ Information

Technology/ Computer Science & Information Technology/

Civil & Environmental Engineering/ Mechanical Engineering/ Mechatronics/

Production Engineering/

Computer Science/ Electronics & Computer Engg.

: AE/ AI/ AN/ AO/ BD/ CE/ CH/ CM/ CO/ CR/ CS/ CW/ DE/ DS/ EE/ EJ/ EK/

Programme Code

ET/ EX/ HA/ IE/ IF/ IH/ LE/ ME/ MK/ PG/ SE/ TE

Semester : Sixth

Course Title : CAPSTONE PROJECT

Course Code : 316004

I. RATIONALE

Capstone projects in engineering study are considered important as it allow students to integrate and apply the knowledge and skills acquired throughout their academic program and effectively demonstrating their learning of programme by tackling a real-world problem, ultimately keeping them well prepared for the job market. The capstone project is usually the final assignment and plays a vital role in preparing students for the world of work to its practical applications and ability to help hone students' professional knowledge and skills. Normally, capstone projects are developed in collaboration with industries or businesses, providing students with valuable insights. Capstone projects has been considered as an integral part of diploma curriculum. It helps learners to perform and demonstrate skills gained due to early courses of Diploma study independent. Therefore, this is considered as a course of final year/semester study.

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:

• Apply professional skills for solving, executing and demonstrating solutions to real-world problems

III. COURSE LEVEL LEARNING OUTCOMES (COS)

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

- CO1 Elaborate the identified field problem from the perspective of project work at institute.
- CO2 Conduct feasibility & viability analysis (using data collection, experiments, Simulation, Coding) to validate required resources, cost, support of the project work.
- CO3 Apply the acquired knowledge and skills in providing solutions to the real field/industrial
- CO4 Present Project and its output/ findings / achievements alongwith its exhibits.

IV. TEACHING-LEARNING & ASSESSMENT SCHEME

Course	Course	Abbr C	Course	Learning	g Sch	eme	Credits		Asse	ssment S	Scheme		7
Code	Title	Ca	ategory/	Actual	SLH	NLH		Paper	Theory	Base	d on LL &	Based on	Total
			S	Contact				Duration			TL	SL	Marks
10.0		. 1		Hrs./									- /

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CAPSTONE PROJECT

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										 Max	Max	Max	Min	Max	Min	Max	Min	Max	Min	
316004	CAPSTONE PROJECT	CPE	INP	-		2	2	4	2	 1	-	1	Ξ	50	20	50#	20	50	20	150

V. General guidelines for PROJECT WORK

- The Project- problems must be related to the programme or may be interdisciplinary, based on the industry expected outcomes.
- The individual students have different aptitudes and strengths. Project work, therefore, should match the strengths of students. For this purpose, students should be asked to identify the type of project work they would like to execute.
- Project titles are to be finalized in co-ordination/consultation with the Faculty mentor. However, faculty may form a team of students as per specific roles- Literature survey/data collection, data Analysts, model/prototype developers, testers, Project managers using IoTs ITES and software /application development. Study type project is NOT advisable.
- Project must be assigned to a group of 3-4 students under the guidance of identified faculty mentor.
- Students are required to prepare a prototype/working model/software of the Project and simultaneously prepare a report.
- Students shall Submit One Hard copy and one Soft copy each of Project Report and soft-copy of the project code or the working model.
- Students must maintain a project execution diary having the progress steps and details. The concerned faculty should check the diary on a weekly basis and accordingly interact with students based on the progress shown and keep proper record with feedback if any.
- Project shall address National Thrust area such as Environment, Digitization, Automation, sustainability and similar domains.
- Student shall try to use the national and international standards wherever possible (processes / materials / equipments etc ..)

VI. Project facilitation guidelines:

Once the Project statement has been finalized and allotted to the students, the Faculty Mentor role is very important as guide, motivator, catalyser to promote learning and sustain the interest of the students. At the same time the Faculty Mentor is not expected to guide the students on each step, otherwise it will curb the creativity of the students-group. The Faculty Mentor has to work as a mentor. Following should be kept in mind while facilitating the project at the institute:

- **1.Project orientation cum -briefing:** the project should be relevant to the curriculum of the programme. The project shall be cost effective taking safety aspects, ethical issues, environmental issues and confidentiality as per expectation of industry(if any) into consideration, The work may be industry Sponsored.
- **2.Information search and data collection**: the information and data should be realistic and relevant to the problem /project. Hypothetical data is not to be taken into consideration.
- **3.Implementation and Monitoring:** The project must have important steps /milestones to achieve as per the time frame/action plan prepared by students and faculty. The monitoring mechanism such as daily/weekly dairy (**Format given below**) must be clearly explained and delineated for the students.

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CAPSTONE PROJECT

VII.Criteria of Assessment /Evaluation of Project work

A. Formative Assessment (FA) criteria

The **Formative Assessment** (FA) of the students for 50 marks is to be done based on following criteria.

Appropriate RUBRICS may be used for assessment

Rubrics for Assessment of the team

Sr.No.	Criteria	Marks
1	Project Selection & Problem definition	05
2	Literature survey and data collection/ Gathering	05
3	Design / concept of project/ Working - Execution of Project	10
4	Stage wise progress as per Action plan/milestone	05
5	Quality Report Writing	05

Rubrics for Individual Assessment

Sr.No.	Criteria	Marks
1	Contribution as a team member	05
2	Depth of Knowledge	10
3	Presentation	05

B. Summative Assessment Criteria

• The summative assessment for 50 marks is to be done and based on following criteria. This assessment shall be done by the faculty mentor and External examiner.

Sr.No.	Criteria	Marks
1	Capstone Project Completion as per plan	10
2	Project related Requirement Analysis & Designing	10
3	Developing a Solution with proper justifications, Teamwork	10
4	Project Report Writing	10
5	Project Presentation	10

(**NOTE :** Team based and Individual performance based summative assessment may include Innovativeness , Technology used , user friendliness , cost effectiveness , society benefits etc..)

SUGGESTED RUBRIC FOR SUMMATIVE ASSESSMENT OF CAPSTONE PROJECT

PROJECT ASSES Project Title:				
Project Assessmer	nt Rubric		15	
Performance	Excellent	Good	Fair	Poor
Criteria	9-10 marks.	6-8 marks.	4-5 marks.	0-3 marks

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CAPSTONE PROJECT

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	130					
Comments (if any)	Comments (if any)					

NOTE: "These are suggestive rubrics Faculty mentor and external examiner may frame different rubrics as per Programme need and assigned Project work "

C. Self Learning Assessment

Self Learning Assessment Max Marks -50

Sr.No.	Criteria	Max Marks	Marks Obtained
D1.1 10.	Citeria	WILLY WILLIAM	Widths Obtained

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Semester - 6, K Scheme

21/09/25, 16:03

Course Code · 216004

CAPSTONE PROJECT

<u>U</u>	APSIUN	E PROJECT	Course C	Jude: 310004
	1	Project Selection & Problem definition	10	
	2	Literature survey and data collection/ Gathering	05	11.1
	3	Design / concept of project/ Working - Execution of Project	15	
	4	Stage wise progress as per Action plan/milestone/ psychomotor motor skills acquired	10	
	5	Quality Report Writing	10	

VIII. CO-PO Mapping

CO-PO mapping will vary project wise and shall be prepared by concerned faculty for the given project

IX. Typographical instructions/guidelines for Project report writing

Following is the suggestive format for preparing the Project report. Actual report may differ slightly depending upon the nature of industry. The training report may contain the following.

- a. The PROJECT report shall be computer typed (English- British) and printed on A4 size paper.
- b. Text Font -Times New Roman (TNR), Size-12 point
- c. Subsection heading TNR- 12 point bold normal
- d. Section heading TNR-12 capital bold
- e. Chapter Name/Topic Name TNR- 14 Capital
- f. All text should be justified. (Settings in the Paragraph)
- g. The report must be typed on one side only with double space with a margin 3.5 cm on the left, 2.5 cm on the top, and 1.25 cm on the right and at bottom.
- h. The training report must be hardbound/ Spiralbound with cover page in black colour. The name of the candidate, diploma (department), year of submission, name of the institute shall be printed on the cover [Refer sample sheet (outer cover)]
- i. The training report, the title page [Refer sample sheet (inner cover)] should be given first then the Certificate followed by the acknowledgment and then contents with page numbers.

X. Project Report

On completion of the project work, every student will submit a project report which should contain the following:

- 1. Cover Page (as per annexure 1)
- 2. Title page (as per annexure 2)
- 3. Certificate by the Guide (as per annexure 3)
- 4. Acknowledgment (The candidate may thank all those who helped in the execution of the project.)
- 5. Abstract (It should be in one page and include the purpose of the study; the methodology used.)
- 6. Table of Contents (as per general guidelines): Detailed description of the project (This should be split in various chapters/sections with each chapter/section describing a project activity in totality).

Chapter—1 Introduction (background of the Industry or User based Problem/Task)

Chapter—2 Literature Survey (to finalize and define the Problem Statement)

Chapter–3 Scope of the project

Chapter-4 Methodology/Approach, if any

Chapter-5 Details of designs, working and processes

Chapter-6 Results and Applications

- 7. Conclusion
- 8. References (The listing of references should be typed 2 spaces below the heading "REFERENCES" in alphabetical order in single spacing left justified. It should be numbered consecutively (in square [] brackets, throughout the text and should be collected together in the reference list at the end of the report. The references should be numbered in the order they are used in the text. The name of the author/authors should be immediately followed by the year and other details). Typical examples of the references are given

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CAPSTONE PROJECT

below:

NOTE:

- 1.Project report must contain only a relevant and short mention technology or platform or tools used. It must be more focussed on project work and its implementation
- 2.Students can add/remove/edit chapter names as per the discussion with their guide

Formats

Project Report

"Project Title----"

as a partial fulfilment of requirement of the

THIRD YEAR DIPLOMA IN

Submitted by

1)Name Of Student Enrollment Number

2)Name Of Student Enrollment Number

3)Name Of Student Enrollment Number

4)Name Of Student Enrollment Number

Are the bonafide on

FOR THE ACADEMIC YEAR

20----20---

(H.O.D)

(Principal)

(Internal Guide) (External Examiner)

MSBTE Approval Dt. 04/09/2025

CAPSTONE PROJECT

Course Code : 316004

Department Name

(If NBA Accredited mention that) Institute Name

(An Affiliated Institute of Maharashtra State Board of Technical Education)

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Acknowledgement	iii
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Abstract	V
List of Figures	vi
List of Tables (optional)	vii

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Sr.No.	Chapter	Page No.
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2.	Chapter–2 Literature Survey (to finalize and define the Problem Statement)	5
3.	Chapter–3 Scope of the project	
4	Chapter–4 Methodology/Approach, if any	
5	Chapter-5 Details of designs, working and processes	7
6.	Chapter-6 Results and Applications	24 1
7.	REFERENCES	

Note

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

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316004-CAPSTONE PROJECT

CAPSTONE PI	ROJECT		Course Code: 316004
Annexure			
	ARY (Weekly/Daily)		
Name of the Stu			
Name of Guide			
Enrollment Nu Number :	mber :	Semester:	Project batch
WEEK	. : <u> </u>		
Date	Activity carried out (Details)	Achievement of mile stone/step as	per plan Remark of Faculty
Monday			/
Tuesday			
Wednesday			
Thursday		1015	
Friday			
Saturday			
		777	

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CAPSTONE PROJECT	Course Code: 316004
RC I III	
Date and Time	
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Semester - 6, K Scheme

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