



DEPARTMENT OF MECHANICAL ENGINEERING

ACADEMIC YEAR 2022-23 / ODD SEMESTER

VALUE ADDED COURSE REPORT

As per Anna university curriculum, a value addition initiative course on “smart materials and structures” has been conducted for third year students on Saturdays. which enhanced the students’ knowledge about different normal and abnormal behavior of certain materials (smart materials) and their engineering applications. Two assessments have been conducted for evaluation of the course. For all passed students, the E- certificate has been issued through the mail.

COURSE DETAILS

Course code & Name: MVA005 – Smart Materials and Structures

Year / Semester: III / V A & B section

Course duration: 27.08.2022 to 22.10.2022 (30 Periods)

No of students enrolled: 78

No of students completed the course: 78

Course Instructor: Mr. S. Sabanayagam (A-sec)

Mr. H. Agilan (B-sec)

Course Incharge: Mr. D. Balaji

Course Credit Points: 2

COURSE OBJECTIVES

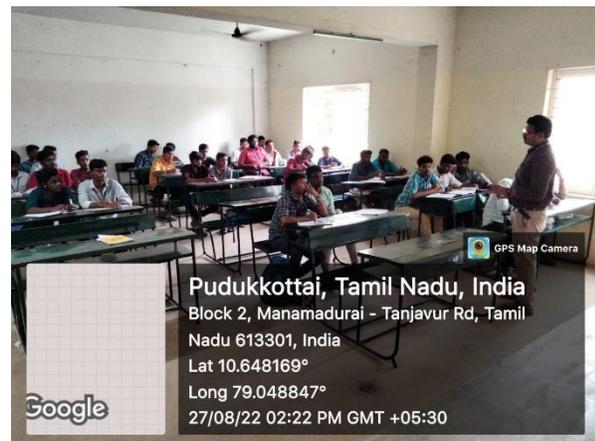
- To describe the basic principles and mechanisms of smart materials and devices.
- To enhance the knowledge of the physical principles underlying the behavior of smart materials.
- To understand the basic principles in smart sensors, actuators and transducer technology and mechanisms of measuring techniques with applications.

COURSE OUTCOMES:

Upon the completion of this course the students will be able to

1. Classify various smart materials and devices.
2. Formulate an analytical approach on vibration absorbers.
3. Demonstrate strain measurement using smart materials.
4. Develop control strategies for smart structures, dampers for health monitoring of structures.

COURSE SCREENSHOTS



Mr. S. Sabanayagam and Mr. H. Agilan handled the sessions of “Smart materials and structures “in different days

FEEDBACK

Feedback has been collected from the students at the end of sessions

A NAAC Accredited Institution
KINGS
 COLLEGE OF ENGINEERING & TECHNOLOGY
 Recognized under ETE & IET of DGC
 Approved by AICTE, New Delhi
 Affiliated to Anna University, Chennai

CERT
 ISO 9001

STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES
 MECHANICAL DEPARTMENT
 STUDENT FEEDBACK

COURSE: MVA005 - SMART MATERIALS AND STRUCTURES
 ACADEMIC YEAR: 2022-23 - ODD SEMESTER : BATCH: 2020-2024
 SEMESTER: V : CLASSE: B Sec
 SUBJECT INCHARGE: H. AGILAN
 NAME: A-VIVEK REG NO: 82112011A053

S.No	Criteria	Rating				
		Excellent	Very Good	Good	Fair	Satisfactory
1	Course content		✓			
2	Skill development	✓				
3	Motivation		✓			
4	Regularity & punctuality	✓				
5	Coverage of syllabus		✓			
6	Interaction		✓			
7	Individual attention		✓			
8	Outcome		✓			
9	Other suggestions			✓		

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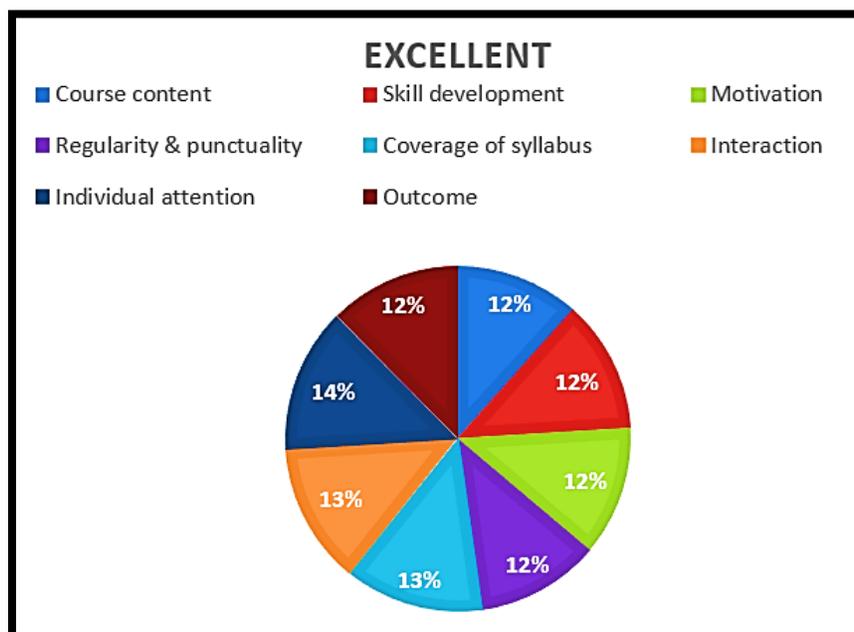
CERT
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STUDENT FEEDBACK FORM FOR VALUE ADDED COURSES
 MECHANICAL DEPARTMENT
 STUDENT FEEDBACK

COURSE: MVA005 - SMART MATERIALS AND STRUCTURES
 ACADEMIC YEAR: 2022-23 - ODD SEMESTER : BATCH: 2020-2024
 SEMESTER: V : CLASSE: B Sec
 SUBJECT INCHARGE: H. AGILAN
 NAME: V. KEBU REG NO: 82112011A058

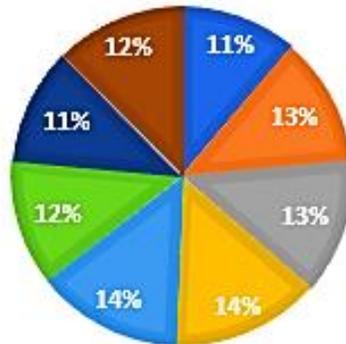
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4	Regularity & punctuality		✓			
5	Coverage of syllabus	✓				
6	Interaction		✓			
7	Individual attention	✓				
8	Outcome		✓			
9	Other suggestions		✓			

FEEDBACK	Excellent	Very Good	Good	Fair	Satisfactory
Course content	42	25	11	-	-
Skill development	45	28	5	-	-
Motivation	44	29	5	-	-
Regularity & punctuality	42	32	4	-	-
Coverage of syllabus	47	31	0	-	-
Interaction	48	27	3	-	-
Individual attention	49	25	4	-	-
Outcome	45	28	5	-	-



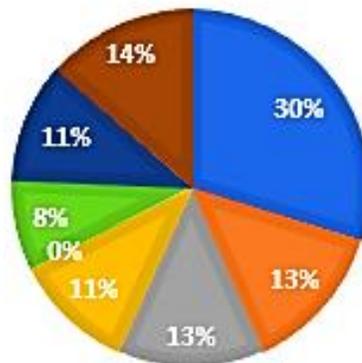
VERY GOOD

- Course content
- Skill development
- Motivation
- Regularity & punctuality
- Coverage of syllabus
- Interaction
- Individual attention
- Outcome



GOOD

- Course content
- Skill development
- Motivation
- Regularity & punctuality
- Coverage of syllabus
- Interaction
- Individual attention
- Outcome



SAMPLE CERTIFICATES

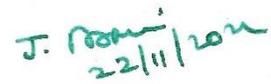



24/1/22

Staff Incharge
Mr. D. Balaji


21/1/22

HOD/Mech
Dr. T. Pusharaj


22/1/2022

Principal
Dr. J. Arputha Vijaya Selvi