PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering.

Name of the Department: Mechanical Engineering

Area of Specialization: Thermal Engineering

Name of the Faculty Member/Members: **Mr. Neeraj**

Tile of the Value Added Course: Refrigeration and Air-conditioning

Course Code: **MECV-011**

Course Duration: [30 hours]

Introduction to the Course:

The course is designed to give an in-depth study of theory of refrigeration and air-conditioning and their applications. The techniques of analysis and design of refrigeration and air-conditioning systems will also be discussed. process. These high precision machines demand technical skills in metrology and computer programming that enable the metrologist or engineer to successfully complete the programming for quick and automated inspection processes in industries. There are not enough highly trained engineering personnel available to meet the industry demand in this advanced manufacturing sector

Course Outcomes: On successful completion of the course the students shall be able to:

CO1 Illustrate the fundamental principles and applications of refrigeration and airconditioning system

CO2: Present the properties, applications and environmental issues of different refrigerants

CO3: Operate and analyze the refrigeration and air conditioning systems...

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Content:

Refrigerants:

Vapour Compression system

Absorption refrigeration system:

Refrigeration system components:

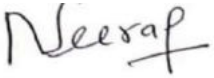
Psychrometry:

Human comfort:

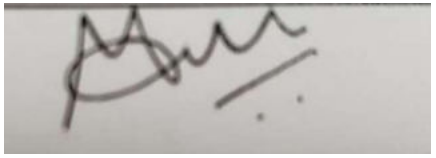
Load analysis:

Duct design and air distribution.

Name & Signature of the Faculty Member



Mr. Neeraj



Approval by the HOD

Department of Mechanical Engineering

School of Engineering

STUDENT ID NO	STUDENT NAME	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	Total classes conducted	Total classes attended	Percentage attended
20181MEC9029	YASHWANTH V	2	1	2	1	2	2	1	2	2	1	2	2	2	1	2	30	25	83%
20191MEC0016	ALLEN K ABRAHAM	2	2	2	2	1	2	2	1	2	2	1	2	2	2	2	30	27	90%
20191MEC0070	M U TEJAS GOWDA	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	30	29	97%
20191MEC0036	MOHAMMED Y C	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	30	30	100%

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Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MECV-011	Academic Year :	2021-2022
Course Name :	Refrigeration and Air-conditioning	Semester :	Odd Semester
		Instructor-in-Charge Name :	Mr. Neeraj
		Instructor-in-Charge Employee ID :	PUNIV00875

S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20181MEC9029	YASHWANTH V	SoE	83%	80	Y	
2		20191MEC0016	ALLEN K ABRAHAM	SoE	90%	76	Y	
3		20191MEC0070	M U TEJAS GOWDA	SoE	97%	76	Y	
4		20191MEC0036	MOHAMMED Y C	SoE	100%	74	Y	
							4	

Name of Course Instructor 1: Mr. Neeraj

Employee ID of Course Instructor 1: PUNIV00875

Neeraj

Signature of Instructor-in-Charge

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PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering.

Name of the Department: Mechanical Engineering

Area of Specialization: Thermal engineering

Name of the Faculty Member/Members: Dr. Udaya Ravi

Tile of the Value Added Course: Electric Vehicles

Course Code: MECV001

Course Duration: [30 hours]

Introduction to the Course:

The course aims to introduce the students to the fascinating world of Biofuels in general and Biodiesels in particular.

Biofuels are biodegradable oils which have fuel characteristics and can be tried as fuels. These can be obtained from plant seeds and animal fat. Even partial use of them will drive India towards self-sufficiency in oil sector and we need to harness them seriously. Biodiesels are better sources of energy and they can replace petro diesel slowly

Course Outcomes: On successful completion of the course the students shall be able to:

01 Describe the different sources of Biofuels / Biodiesels
02 Explain the techniques of converting biofuel into biodiesel
03 Discuss the methodology of testing their characteristics
04. Testing a few biodiesels in a diesel engine and comparing the results.

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Course Content:

Course Content: [Briefly mention all the important topics to be covered in this course]

This course will give an insight into the following areas.

1. Definition and types of Biofuels

2. Necessity of biofuels

3. Availability and properties of biofuels

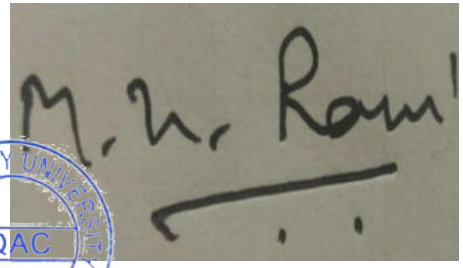
4. Methods of reducing viscosity

5. Discussions on different biodiesels like Jatropha, Honge, Simarouba, etc.

6. Characterisation

7. Testing

Name &Signature of the Faculty Member



Dr. Udaya Ravi M

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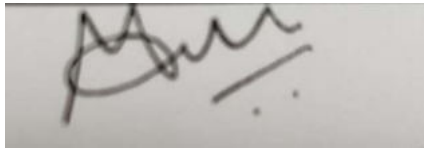

Approval by the HOD

Department of Mechanical Engineering

School of Engineering

STUDENT ID NO	STUDENT NAME	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	Total classes conducted	Total classes attended	Percentage attended
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20181MEC0002	MOHAMMED ZAIN	2	2	1	2	2	2	1	2	2	2	2	2	2	2	2	**30**	**28**	**74**
20181MEC0003	SUDEEP B M	2	2	2	2	2	2	2	2	2	1	2	1	2	2	2	**30**	**28**	**80**
20181MEC0004	P AGRAJ	2	2	2	2	1	2	2	1	2	2	2	2	2	2	2	**30**	**28**	**77**

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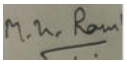
Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :		MECV001		Academic Year :			2021-2022	
Course Name :		Electric Vehicles		Semester :			Odd Semester	
				Instructor-in-Charge Name :			Dr. Udaya Ravi	
				Instructor-in-Charge Employee ID :			PUNIV00432	
S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20181MEC0001	RAHMATHULLA SHARIFF	SoE	87%	78	Y	
2		20181MEC0002	MOHAMMED ZAIN	SoE	74%	71	Y	
3		20181MEC0003	SUDEEP B M	SoE	80%	71	Y	
4		20181MEC0004	P AGRAJ	SoE	77%	80	Y	
							4	

Name of Course Instructor 1: Dr. Udaya Ravi
Employee ID of Course Instructor 1: PUNIV00432



Signature of Instructor-in-Charge

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(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering.

Name of the Department: Mechanical Engineering

Area of Specialization: Production engineering

Name of the Faculty Member/Members: Dr. BS Praveen Kumar

Tile of the Value Added Course: Advanced Nanotechnology

Course Code: MECV008

Course Duration: [30 hours]

Introduction to the Course:

Nanotechnology refers to the branch of science and engineering devoted to designing, producing, and using structures, devices, and systems by manipulating atoms and molecules at nanoscale, i.e. having one or more dimensions of the order of 100 nanometres (100 millionth of a millimetre) or less.

Course Outcomes: On successful completion of the course the students shall be able to:

CO 01: To explain the characteristics of PCM and classify them.
CO 02: To define thermodynamic properties of PCM
CO 03: To explain applications of PCM
CO 04: To analyselatent heat themal energy storage system using PCM.

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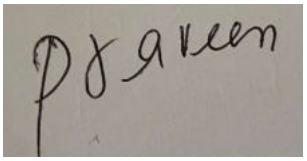
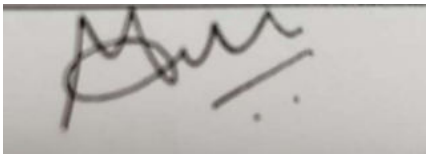
Course Content:

- Principles of Environmental Science.
- Biology for Engineers.
- Elements of Nanoscience and Nanotechnology.
- Statistical Mechanics and Thermodynamics.
- Fundamentals of Solid State Technology.
- Properties of Nanomaterials.
- Quantum Mechanics.
- Production of Nanomaterials.

Name of the Faculty Member





.(Praveen Kumar)

Approval by the HOD

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Department of Mechanical Engineering

School of Engineering

STUDENT ID NO	STUDENT NAME	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	Total classes conducted	Total classes attended	Percentage attended
20181MEC0208	SUMANTH R	2	1	2	2	2	2	1	2	2	2	2	2	2	2	2	**30**	**28**	**87**
20191MEC0028	BHUVAN C R	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	**30**	**28**	**74**
20191MEC0048	GUNASHEKAR C	2	2	2	2	2	2	1	2	1	2	2	2	2	2	2	**30**	**28**	**80**
20181MEC0208	SUMANTH R	2	1	2	2	2	2	2	1	2	2	2	2	2	2	2	**30**	**28**	**77**
20191MEC0028	BHUVAN C R	2	2	2	2	2	1	2	2	2	1	2	2	2	2	2	**30**	**28**	**74**

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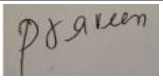
Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :		MECV008		Academic Year :			2021-2022	
Course Name :		Advanced Nanotechnology		Semester :			Odd Semester	
				Instructor-in-Charge Name :			Dr. BS Praveen Kumar	
				Instructor-in-Charge Employee ID :			PUNIV00970	
S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20181MEC0208	SUMANTH R	SoE	87%	73	Y	
2		20191MEC0028	BHUVAN C R	SoE	74%	83	Y	
3		20191MEC0048	GUNASHEKAR C	SoE	80%	75	Y	
4		20181MEC0208	SUMANTH R	SoE	87%	73	Y	
5		20191MEC0028	BHUVAN C R	SoE	74%	83	Y	
							5	

Name of Course Instructor 1: Dr. BS Praveen Kumar
Employee ID of Course Instructor 1: PUNIV00970



Signature of Instructor-in-Charge

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PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering.

Name of the Department: Mechanical Engineering

Area of Specialization: Production engineering

Name of the Faculty Member/Members: Mr. Arvinda

Tile of the Value Added Course: CNC Programing & CNC Machining

Course Code: MECV701

Course Duration: [30 hours]

Introduction to the Course:

This course is designed to provide participants with the fundamentals CNC Turning and milling machine concepts. Participants would be exposed to the CNC Turning and Milling components and features, cutting technology, basic programming, cycles and CNC Turning machine and Milling operations & Programming.

Course Outcomes: On successful completion of the course the students shall be able to:

Use a general and machine (G & M) code to generate or edit a program which will operate a CNC lathe.

· Describe the components, features and principles operation of CNC Turning machine.

· Write CNC programs according to the drawing given

· Perform CNC turning operations such as work piece zero setting, tool setting, program editing and machining.

· Describe the programming and operation of Computer Numerical Control (CNC) machines

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Course Content:

Introduction of Know Your Machine - In this module the student is introduced to CNC (Computer Numerical Control) concepts such as: Basic machining practice and tooling related to machining/turning centers; Machine configurations; General flow of the programming process; Understanding program zero and the rectangular coordinate system; Determining program zero assignment values and three ways to assign program zero and Introduction to programming words.

Preparation for CNC Programming - In this module the student is introduced to the preliminary concepts addressed prior to programming such as: Preparation and Safety; Development of the Needed Machining Operations; Performing the Required math; Establishing the Required Tooling; the Machine Setup; the Sequence of Operations; and the Setup Form.

Types of CNC Motion Commands - In this module the student is introduced to the types of motion commands such as: Interpolation; Rapid Motion; Straight Line Motion; Circular Motion; Limitations of Quadrant Lines; and Helical Motion.

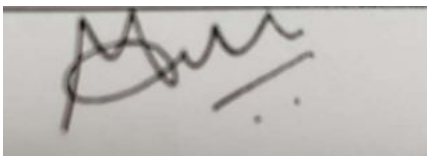
Types of CNC Compensation - In this module the student is introduced to the types of compensation concepts such as: Compensation Uses; Tool Length Compensations; Cutter Radius Compensations; the Steps Necessary for Tool Length / Radius Compensation; Fixture Offsets; Dimensional Tool Offsets; and Tool Nose Radius Compensation.

CNC Program Formatting - In this module the student is introduced to CNC program formatting concepts such as: Reasons to Format Programs; the Four Types of Formatting; Formatting CNC Turning Centers.

Special Features of CNC Programming - In this module the student is introduced to special features of CNC programming such as: Dwell Command; Mirror Image; Scaling; Coordinate Manipulation; Subroutine Programming; Parametric Programming; Helical Motion; Canned Cycles; and Multiple Repetitive Cycles.

Methodology: Lectures, discussions, exercises & practical applications / workshop.

Name &Signature of the Faculty Member



Mr.Aravinda

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Approval by the HOD

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Department of Mechanical Engineering

School of Engineering

STUDENT ID NO	STUDENT NAME	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	Total classes conducted	Total classes attended	Percentage attended
20201LME0016	Harshith AM	2	1	2	2	2	1	2	2	1	2	2	2	1	2	2	**30**	**26**	87
20201LME0011	Lokesh B N	1	2	2	2	2	2	2	1	2	2	2	2	2	2	2	**30**	**28**	93
20201LME0014	Prajwal S V	2	2	1	2	2	2	2	2	1	2	2	2	2	2	2	**30**	**28**	93
20201LME0015	Santhosh Kumar G	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	**30**	**30**	100
20201LME0010	Sharath B K	2	2	2	2	2	2	2	1	2	2	2	2	2	1	2	**30**	**28**	93
20181mec0022	Andey Devivaraprasad	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	**30**	**28**	93
20181MEC0033	AVULA VEERA SWAMY	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	**30**	**28**	93
20191MEC0001	A PAVAN	2	2	2	2	2	2	2	2	2	1	2	2	2	2	1	**30**	**28**	93
20191MEC0021	ARJUN F THAMPI	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	**30**	**30**	100
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20191MEC0120	VINAYAK JOSHI	2	2	2	2	2	2	2	2	1	2	2	2	2	2	1	**30**	**28**	93
20201LME0017	Nithin.S	2	2	2	2	2	2	2	2	2	2	2	1	2	1	2	**30**	**28**	93

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Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MECV701	Academic Year :	2021-2022
Course Name :	CNC Programing & CNC Machining	Semester :	Odd Semester
		Instructor-in-Charge Name :	Mr. Arvinda
		Instructor-in-Charge Employee ID :	PUNIV00332

S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20201LME0016	Harshith AM	SoE	87%	70	Y	
2		20201LME0011	Lokesh B N	SoE	93%	75	Y	
3		20201LME0014	Prajwal S V	SoE	93%	83	Y	
4		20201LME0015	Santhosh Kumar G	SoE	100%	82	Y	
5		20201LME0010	Sharath B K	SoE	93%	72	Y	
6		20181mec0022	Andey Devivaraprasad	SoE	93%	83	Y	
7		20181MEC0033	AVULA VEERA SWAMY	SoE	93%	76	Y	
8		20191MEC0001	A PAVAN	SoE	93%	81	Y	
9		20191MEC0021	ARJUN F THAMPI	SoE	100%	78	Y	
10		20191MEC0083	NISHANTH KUMAR K	SoE	93%	80	Y	
11		20191MEC0120	VINAYAK JOSHI	SoE	93%	72	Y	
12		20201LME0017	Nithin.S	SoE	93%	79	Y	
							12	

Name of Course Instructor 1: Mr. Arvinda
Employee ID of Course Instructor 1: PUNIV00332

Signature of Instructor-in-Charge

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PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering.

Name of the Department: Mechanical Engineering

Area of Specialization: **COMPUTING TECHNIQUES**

Name of the Faculty Member/Members: **Mr. ARUN AROGYASWAMY**

Tile of the Value Added Course: **ENGINEERING COMPUTATION AND ANALYSIS USING R PROGRAMMING**

Course Code: **MECV-040**

Course Duration: [30 hours]

Introduction to the Course:

Computing techniques is basically used to find best possible outcomes to any given problem. In recent times as the process of data collection is robust and organized, the scope to perform wide range of computational activities on a given data set is simpler, effective and efficient. The process of automating the data collection process has enhanced the possibility performing in depth analysis of a given problem considering variables of desired number and type.

The purpose of the course is to train students to employ modern computing packages on an automated platform. This course gives an hands on experience of using R-Programming to formulate, solve, analyze, visualize and optimize data sets obtained from different engineering domains. This course is requires basic mathematics and programming skills.

Course Outcomes: On successful completion of the course the students shall be able to:

CO1: Develop simple functions to solve engineering problems using R Programming.

CO2: Employ search algorithm's to find maxima and minima of a given non linear function using R Programming.

CO3: Infer the visualized data to draw conclusions using R Programming.

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Course Content:

Course Content: [Briefly mention all the important topics to be covered in this course]

Section 1: Basics of R Programming

Introduction to R, Installation of R-Studio, GUI of R-Studio, Data types, Operators, Lists, plots, Importing Datasets, Dataframes, Conditional Statements, Matrix generation and operations, Solving linear and non linear algebraic equations, differentiation and integration of linear and non linear function.

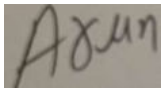
Section 2: Linear and Non Linear Programming

Introduction, concept of minima and maxima, data set generation, Simplex algorithm, Unrestricted Search, Exhaustive Search, Constrained Search, Interval Halving Search, Golden Section Search Method, Interpolation search method.

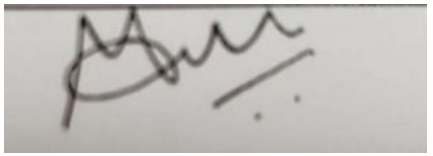
Section 3: Modern Computing Techniques

Introduction, Hill climbing, Golden Section Search, Ant Colony, Newton's method

Name & Signature of the Faculty Member



Mr. ARUN AROGYASWAMY G



Approval by the HOD.

PRESIDENCY UNIVERSITY IQAC BANGALORE

REGISTRAR

PRESIDENCY UNIVERSITY Registrar BANGALORE

Department of Mechanical Engineering

School of Engineering

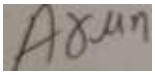
STUDENT ID NO	STUDENT NAME	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	Total classes conducted	Total classes attended	Percentage attended
20171MEC0098	M MOHAMMED SWALIH MOOPEN	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	30	25	83%
20171MEC0101	MAHAT K MATHEW	2	2	2	1	2	2	2	1	2	1	2	2	2	2	2	30	27	90%
20171MEC0053	DEEPESH YADAV	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	30	29	97%
20171MEC0091	KOLLI SURYA TEJA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	30	30	100%
20171MEC0059	DONTULA PAVAN KUMAR	2	2	1	2	1	2	1	2	2	1	2	2	2	2	2	30	26	87%
20171MEC0106	MANISH MANJUNATH	2	2	2	1	2	1	2	1	2	2	1	2	1	2	1	30	24	80%
20171MEC0121	MOHAMMED AMEEN M S	1	2	1	2	1	2	1	2	1	2	1	2	1	2	2	30	23	77%
20171MEC0143	N KULDEEP	2	2	2	1	2	1	2	1	2	1	2	1	2	1	2	30	24	80%
20171MEC0173	RAHUL R PATIL	2	1	2	1	2	2	1	2	1	2	1	2	1	2	2	30	24	80%
20171MEC0211	SHRI HARI M	1	2	2	2	1	1	1	2	1	2	1	2	2	2	2	30	24	80%
20171MEC0237	VISHAL C	2	2	2	1	2	1	2	1	2	1	2	1	2	1	2	30	24	80%
20171MEC0242	VRUSHASEN DESHMUKH	2	1	2	2	2	2	2	1	2	2	1	2	1	2	2	30	26	87%
20171MEC0243	WILSON CORREYA	2	2	1	2	1	2	1	2	2	2	2	2	2	2	2	30	27	90%
20171MEC0253	ABUBAKKAR SIDDIQ	1	1	1	1	2	2	1	2	1	2	1	2	1	2	2	30	22	73%

Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MECV-040	Academic Year :	2021-2022
Course Name :	ENGINEERING COMPUTATION AND ANALYSIS USING R PROGRAMMING	Semester :	Odd Semester
		Instructor-in-Charge Name :	Mr. ARUN AROGYASWAMY
		Instructor-in-Charge Employee ID :	PUNIV00874

S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20171MEC0098	M MOHAMMED SWALIH MOOPEN	SoE	83%	76	Y	
2		20171MEC0101	MAHAT K MATHEW	SoE	90%	81	Y	
3		20171MEC0053	DEEPESH YADAV	SoE	97%	77	Y	
4		20171MEC0091	KOLLI SURYA TEJA	SoE	100%	81	Y	
5		20171MEC0059	DONTULA PAVAN KUMAR	SoE	87%	72	Y	
6		20171MEC0106	MANISH MANJUNATH	SoE	80%	71	Y	
7		20171MEC0121	MOHAMMED AMEEN M S	SoE	77%	82	Y	
8		20171MEC0143	N KULDEEP	SoE	80%	70	Y	
9		20171MEC0173	RAHUL R PATIL	SoE	80%	84	Y	
10		20171MEC0211	SHRI HARI M	SoE	80%	71	Y	
11		20171MEC0237	VISHAL C	SoE	80%	85	Y	
12		20171MEC0242	VRUSHASEN DESHMUKH	SoE	87%	82	Y	
13		20171MEC0243	WILSON CORREYA	SoE	90%	70	Y	
14		20171MEC0253	ABUBAKKAR SIDDIQ	SoE	73%	85	Y	
							14	

Name of Course Instructor 1: Mr. ARUN AROGYASWAMY
Employee ID of Course Instructor 1: PUNIV00874



Signature of Instructor-in-Charge

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PRESIDENCY UNIVERSITY ★ Registrar ★ BANGALORE

PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering.

Name of the Department: Mechanical Engineering

Area of Specialization: Metrology

Name of the Faculty Member/Members: **Mr. Sandeep GM**

Tile of the Value Added Course: A Hands-on Experience in Coordinate Measuring Machine (CMM), Geometric Dimensioning and Tolerancing

Course Code: **MECV-051**

Course Duration: [30 hours]

Introduction to the Course:

Metrology is the science of measurement. As quality demands continued to increase, one of the challenges has been that the human eye is incapable of measuring with the precision necessary to produce the highest quality of parts that the modern industry needs. In industries where precision is of utmost important, like automotive, aerospace, instrumentation, machine tools etc.; the latest metrology technology like Coordinate Measuring Machines is needed to make measurements to within a millionth of an inch. Coordinate Measuring Machines (CMM) are the back bones of coordinate metrology and the related inspection process. These high precision machines demand technical skills in metrology and computer programming that enable the metrologist or engineer to successfully complete the programming for quick and automated inspection processes in industries. There are not enough highly trained engineering personnel availableto meet the industry demand in this advanced manufacturing sector

Course Outcomes: On successful completion of the course the students shall be able to:

CO1 Create awareness among students on the latest developments in coordinate metrology and its applications in dimensional measurement

CO2: Enable the participants operate CNC CMM and demonstrate the usage of its software for dimensional measurement.

CO3: Train the participants to measure various geometric features and generate report..

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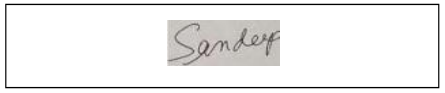
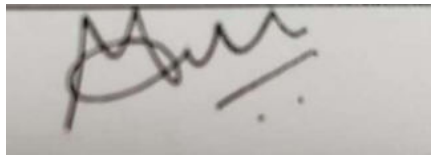
Course Content:

Course Content: This course is an entry level course describing the CMM for the students with limited to no knowledge of CMMs. Course content includes history of the CMM, basic terminology, specifications, standards, accuracy, Functions and system components of CMM, probe data management and calibration, introduction to MCOSMOS, modes of Operation and measurement uncertainty as applied to CMMs in general. Basic measurement methods related to Geometric Dimensioning and Tolerancing (GD&T) as well as three dimensional measurements including point-to-point and 3D scanning are covered. The availability and application of various measuring probes are included.

Name & Signature of the Faculty Member



Mr. Sandeep



Approval by the HOD

School of Engineering

STUDENT ID NO	STUDENT NAME	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	Total classes conducted	Total classes attended	Percentage attended
20171MEC0098	M MOHAMMED SWALIH MOOPEN	2	2	1	2	2	1	2	1	2	1	2	1	2	2	2	30	25	83%
20171MEC0101	MAHAT K MATHEW	2	1	2	2	1	2	2	1	2	2	2	2	2	2	2	30	27	90%
20171MEC0053	DEEPESH YADAV	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	30	29	97%
20171MEC0091	KOLLI SURYA TEJA	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	30	30	100%
20171MEC0059	DONTULA PAVAN KUMAR	2	2	2	1	2	1	2	1	2	2	1	2	2	2	2	30	26	87%
20171MEC0106	MANISH MANJUNATH	2	2	1	2	2	1	2	2	1	2	1	2	1	2	1	30	24	80%
20171MEC0121	MOHAMMED AMEEN M S	1	2	1	2	1	2	1	2	1	2	1	2	1	2	2	30	23	77%
20171MEC0143	N KULDEEP	2	1	2	1	2	1	2	1	1	1	2	2	2	2	2	30	24	80%
20171MEC0173	RAHUL R PATIL	2	2	2	2	1	2	1	2	1	2	1	2	1	2	1	30	24	80%
20171MEC0211	SHRI HARI M	2	1	2	1	2	1	2	1	2	1	2	1	2	2	2	30	24	80%
20171MEC0237	VISHAL C	2	2	1	2	1	2	2	1	2	1	2	2	1	2	1	30	24	80%
20171MEC0242	VRUSHASEN DESHMUKH	2	1	2	1	2	2	1	2	2	1	2	2	2	2	2	30	26	87%
20171MEC0243	WILSON CORREYA	2	2	2	1	2	2	1	2	2	1	2	2	2	2	2	30	27	90%
20171MEC0253	ABUBAKKAR SIDDIQ	1	2	1	2	1	2	1	2	1	2	1	2	1	2	1	30	22	73%

PRESIDENCY UNIVERSITY IQAC BANGALORE

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Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :		MECV-051		Academic Year :			2021-2022	
Course Name :		A Hands-on Experience in Coordinate Measuring Machine (CMM), Geometric Dimensioning and Tolerancing		Semester :			Odd Semester	
				Instructor-in-Charge Name :			Mr. Sandeep GM	
				Instructor-in-Charge Employee ID :			PUNIV00476	
S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
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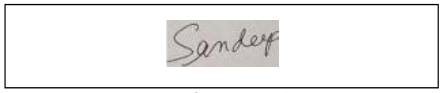
2		20171MEC0101	MAHAT K MATHEW	SoE	90%	85	Y	
3		20171MEC0053	DEEPESH YADAV	SoE	97%	83	Y	
4		20171MEC0091	KOLLI SURYA TEJA	SoE	100%	79	Y	
5		20171MEC0059	DONTULA PAVAN KUMAR	SoE	87%	76	Y	
6		20171MEC0106	MANISH MANJUNATH	SoE	80%	73	Y	
7		20171MEC0121	MOHAMMED AMEEN M S	SoE	77%	80	Y	
8		20171MEC0143	N KULDEEP	SoE	80%	80	Y	
9		20171MEC0173	RAHUL R PATIL	SoE	80%	79	Y	
10		20171MEC0211	SHRI HARI M	SoE	80%	80	Y	
11		20171MEC0237	VISHAL C	SoE	80%	84	Y	
12		20171MEC0242	VRUSHASEN DESHMUKH	SoE	87%	80	Y	
13		20171MEC0243	WILSON CORREYA	SoE	90%	70	Y	
14		20171MEC0253	ABUBAKKAR SIDDIQ	SoE	73%	74	Y	
							14	

Name of Course Instructor 1: Mr. Sandeep GM

Employee ID of Course Instructor 1: PUNIV00476



Signature of Instructor-in-Charge

PRESIDENCY UNIVERSITY ★ IQAC ★ BANGALORE

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PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering
Name of the Department: Mechanical Engineering
Area of Specialization: Manufacturing Science and Engineering
Name of the Faculty Member: Mr. Shashi kiran G
Title of the Value Added Course: Lean Six Sigma
Course Duration: [**30 hours**] [From March 2022 to May 2022]
Course Code: MECV035

Introduction to the Course: The course provides the necessary knowledge, methodologies and skills required to drive DMAIC Lean Six Sigma at their respective workplace. The course will help to learn the fundamentals of Minitab with optimum learning of statistics to gain the in-depth knowledge of data interpretation. It will also provide a brief overview of lean management and improvement tools like Kaizen, Root Cause Analysis along with lean defects and waste reduction tools like 5S, 3M (Muda, Mura and Muri), Poka-Yoke and Heijunka.

Prerequisites: Basic Statistics.

Course Outcomes: On successful completion of the course the students shall be able to:
CO 1: Identify different lean tools to reduce defects.
CO 2: Understand the importance of six sigma as a comprehensive tool to improve the profitability of an organization.
CO 3: Use Minitab software for data interpretation.

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Course Content:

1. Overview
   a. Six sigma and organizational goals
   b. Lean principles in the organization
   c. Lean Tools

2) Define Phase
   a. Project identification
   b. Voice of the customer (VOC)

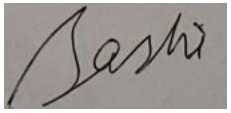
3) Measure Phase
   a. Measurement system analysis (MSA)
   b. Process and performance capability

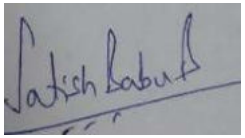
4) Analyze Phase
   a. Hypothesis testing

5) Improve Phase
   a. Design of experiments (DOE)
   b. Root cause analysis

6) Control Phase
   a. Statistical process control (SPC)
   b. Control plan

Name & Signature of the Faculty Member





Mr. Shashi Kiran G.

Dr. Satish Babu B.
Approval by the HOD Incharge.

PRESIDENCY UNIVERSITY IQAC BANGALORE

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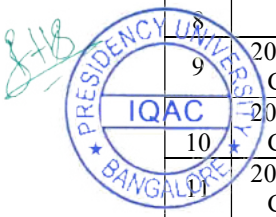
PRESIDENCY UNIVERSITY Registrar BANGALORE

DEPARTMENT OF MECHANICAL ENGINEERING

SCHOOL OF ENGINEERING

Presidency University, Bengaluru Department of Mechanical Engineering			Instructor In-charge: Mr. SHASHI KIRAN G																				
Section:	Value Added Course	Date	18-Mar	25-Mar	01-Apr	06-Apr	16-Apr	02-May	11-May	14-May	21-May	26-May	03-Jun	09-Jun	11-Jun	16-Jun	18-Jun	19-Jun	21-Jun	22-Jun	No. of Classes Attended	No. of Classes Conducted	Attendance (%) till Date
Class Strength:	15																						
Course Name:	Lean Six Sigma																						
Course Code:	MECV035	Time	3:00 - 4:30 PM	6:00 - 7:30 PM	6:00 - 7:30 PM	6:30 - 8:00 PM	6:00 - 8:00 PM	10:00 - 12:00 PM	6:30 - 8:00 PM	2:30 - 4:00 PM	3:00 - 4:30 PM	6:00 - 7:30 PM	6:00 - 7:30 PM	6:00 - 7:30 PM	4:00 - 6:00 PM	6:00 - 8:00 PM	2:30 - 4:00 PM	2:30 - 4:00 PM	6:00 - 8:00 PM	6:00 - 7:00 PM			
LIST OF ELIGIBLE STUDENTS		Hours	1.5	1.5	1.5	1.5	2.0	2.0	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	1.5	1.5	2.0	1.0			
S. No.	ID NO	STUDENT NAME																					
1	20181MEC0009	ADITYA KUMAR		P	P	P	P	A	A	P	P	P	P	A	A	A	A	A	A	A	A	12	29	41.38
2	20181MEC0049	CHANDAN M		P	P	P	P	P	A	P	P	P	P	A	A	A	A	A	A	A	A	14	29	48.28
3	20181MEC0063	FAZALA JUNAID		P	P	P	P	A	A	P	P	A	A	A	A	A	A	A	A	A	A	9	29	31.03
4	20181MEC0197	SHEIK SULAIMAN		A	A	A	A	P	P	A	A	A	A	A	A	A	A	A	A	A	A	4	29	13.79
5	20181MEC0235	YESHWANTH C S		P	P	P	P	P	P	P	P	P	P	A	A	P	A	A	A	A	A	18	29	62.07
6	20181MEC0247	SYED YOUSUF M		P	P	A	A	P	P	A	A	A	A	A	A	A	A	A	A	A	A	7	29	24.14
7	20181PET0052	RAIYAN		A	A	A	A	P	P	A	A	A	A	A	A	A	A	A	A	A	A	4	29	13.79
8	20181PET0054	MOHAMMED ZAIN		A	A	A	A	P	P	A	A	A	A	A	A	A	A	A	A	A	A	4	29	13.79
9	20191MEC0004	ABHISHEK B		P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	P	24	29	82.76
10	20191MEC0006	ABHISHEKH KUMAR		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	28	29	96.55
11	20191MEC0008	AKARSH L S		P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	A	25	29	86.21
12	20191MEC0016	ALLEN K ABRAHAM		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	27	29	93.10



13	20191ME C0025	BHARATH A		P	P	A	A	P	P	A	A	A	A	A	A	A	A	A	A	A	A	7	**29**	**24.14**
14	20191ME C0033	CHALLA ASHWIN K VARDHAN REDDY		A	A	P	P		P	P	P	P	P	P	P	P	P	P	P	P	P	26	**29**	**89.66**
15	20191ME C0136	BENJAMIN ZACHARIACHEN		A	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P	24	**29**	**82.76**

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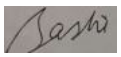
Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :		MECV035		Academic Year :			2021-2022	
Course Name :		Lean Six Sigma		Semester :			Even Semester	
				Instructor-in-Charge Name :			Mr. Shashi kiran G	
				Instructor-in-Charge Employee ID :			PUNIV00920	
S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20181ME C0009	ADITYA KUMAR	SoE	38%	79	Y	
2		20181ME C0049	CHANDAN M	SoE	28%	38	Y	
3		20181ME C0063	FAZALA JUNAID	SoE	31%	78	Y	
4		20181ME C0197	SHEIK SULAIMAN	SoE	79%	79	Y	
5		20181ME C0235	YESHWANTH C S	SoE	62%	75	Y	
6		20181ME C0247	SYED YOUSUF M	SoE	24%	24	N	
7		20181PET 0052	RAIYAN	SoE	13%	26	N	
8		20181PET 0054	MOHAMMED ZAIN	SoE	13%	39	Y	
9		20191ME C0004	ABHISHEK B	SoE	76%	82	Y	
10		20191ME C0006	ABHISHEKH KUMAR	SoE	96%	82	Y	
11		20191ME C0008	AKARSH L S	SoE	86%	79	Y	
12		20191ME C0016	ALLEN K ABRAHAM	SoE	93%	76	Y	
13		20191ME C0025	BHARATH A	SoE	24%	32	Y	
14		20191ME C0033	CHALLA ASHWIN K VARDHAN REDDY	SoE	89%	82	Y	
15		20191ME C0136	BENJAMIN ZACHARIACH EN	SoE	82%	75	Y	
							13	

Name of Course Instructor 1: Mr. Shashi kiran G
Employee ID of Course Instructor 1: PUNIV00920



Signature of Instructor-in-Charge

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PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: Engineering **Name of the Department:** Mechanical

Area of Specialization: Materials **Name of the Faculty: Dr. Yuvaraja Naik**

Tile of the Value Added Course: Smart Materials

Course Duration: [30 hours] [From 15.06.2021 to 15.11.2021]

Course Code: MECV-058

Introduction to the course: Introduction, Sensing and Actuation, Types of sensors, Control Design, Optics and Electromagnetic, Structures Controls, Principles of Vibration and Modal Analysis, MEMS and Information Processing.

Course Outcomes: On successful completion of the course the students shall be able to:

1. To illustrate the characteristics of smart materials.
2. To comprehend different types of sensors and actuation systems with their applications.
3. To identify the properties of shape memory alloys along with other class of materials.
4. To explain the utilization of Piezoelectric Materials and Magnetostrictive materials in the design of different actuators.
5. To evaluate the Electro, Magneto Rheological fluids for various mechanical systems

Course Content:

Part-I: Introduction 9 hours

Characteristics of metals, polymers and ceramics. Introduction to Advanced composites, smart materials. Classification of smart Materials, primitive functions of Intelligent materials, Intelligent biological materials**.**

Part-II: Sensing and actuation: 9 hours

Principles of electromagnetic, acoustics, chemical and mechanical sensing and actuation. Types of sensors and their applications. Compatibility with conventional and advanced materials. Micro sensors and smart structural systems.

Part-III: Shape Memory Alloys: 9 hours

History of shape memory alloys. Classification of shape memory alloys. NITINOLS – melting, casting and forming of NITINOLS, shape memory and pseudo plasticity. Mechanical and bio-medical applications of NITINOL. Vibration control through shape memory alloys.

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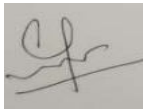
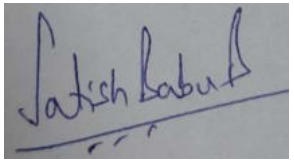
Part-IV: Piezoelectric Materials and Magnetostrictive Materials: **9 hours**

Piezoelectric properties, piezoelectric materials. Making of piezoelectric actuators. Inchworm linear motor and application of piezo-actuators for precision movement control. Piezo resistors as sensors. Magnetostrictive materials. Magnetostrictive actuators.

Name &Signature of the Faculty Member



(Dr. Yuvaraja Naik)



Approval by the HOD

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Department of Mechanical Engineering

STUDENT ID NO	STUDENT NAME	02-Apr-22	02-Apr-22	03-Apr-22	03-Apr-22	09-Apr-22	09-Apr-22	10-Apr-22	10-Apr-22	16-Apr-22	16 APRIUL	17-Apr-22	17-Apr-22	24-Apr-22	24-Apr-22	30-Apr-22	Total classes conducted	Total classes attended	Percentage attended
		6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM	6PM to 8PM			
20181MEC0050	CHANDAVATH SAI PREETHAM NAIK	2	0	2	2	0	2	2	2	1	2	2	2	2	2	2	30	25	96%
20181MEC0105	M RENGANATHAN	2	2	2	0	2	2	0	2	2	2	2	1	2	2	2	30	25	96%
20181MEC0116	MARK STEPHEN S	2	1	2	2	2	0	2	2	2	0	2	2	2	2	2	30	25	96%
20181MEC0131	NARASIMMAN A	2	2	2	0	2	2	2	2	1	2	2	2	2	0	2	30	25	96%
20181MEC9002	N. KIRAN KUMAR REDDY	2	2	2	2	2	0	0	2	1	2	2	2	2	2	2	30	25	96%
20181MEC0033	CHALLA ASHWIN KRISHNA VARDHAN REDDY	2	1	2	2	2	1	2	2	2	2	1	2	1	1	2	30	25	96%
20191MEC0057	KEERTHAN C POOJARI	2	2	2	1	2	2	2	2	2	2	2	0	2	2	2	30	25	96%
20201LME0013	Ravikumar K	2	0	2	2	2	0	2	2	2	1	2	2	2	2	2	30	25	96%
20201MAM0001	VIVEK R	2	1	2	2	1	2	2	1	2	2	1	2	2	1	2	30	25	96%
20191BDS0027	SHIVENDRA SINGH	2	2	1	2	2	1	2	2	1	2	1	2	1	2	2	30	25	96%

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20191BDS0030	**TARA VERMA**	2	0	2	2	2	2	0	2	2	1	2	2	2	2	2	**30**	25	96%
20191BDS0008	**C SIDDHARTH**	2	2	0	2	2	0	2	2	2	1	2	2	2	2	2	**30**	25	96%
20191BDS0026	**SHARADI T BADRI**	2	1	2	1	2	1	2	1	2	2	2	1	2	2	2	**30**	25	96%

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Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :		MECV-058		Academic Year :			2021-2022	
Course Name :		Smart Materials		Semester :			Even Semester	
				Instructor-in-Charge Name :			Dr. Yuvaraja Naik	
				Instructor-in-Charge Employee ID :			PUNIV01016	
S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20181MEC0050	CHANDAVATH SAI PREETHAM NAIK	SoE	96%	81	Y	
2		20181MEC0105	M RENGANATHAN	SoE	96%	84	Y	
3		20181MEC0116	MARK STEPHEN S	SoE	96%	84	Y	
4		20181MEC0131	NARASIMMAN A	SoE	96%	79	Y	
5		20181MEC9002	N. KIRAN KUMAR REDDY	SoE	96%	81	Y	
6		20191MEC0033	CHALLA ASHWIN KRISHNA VARDHAN REDDY	SoE	96%	75	Y	
7		20191MEC0057	KEERTHAN C POOJARI	SoE	96%	78	Y	
8		20201LME0013	Ravikumar K	SoE	96%	81	Y	
9		20201MAM0001	VIVEK R	SoE	96%	71	Y	
10		20191BDS0030	TARA VERMA	SoE	96%	70	Y	
11		20191BDS0008	C SIDDHARTH	SoE	96%	76	Y	
12		20191BDS0026	SHARADI T BADRI	SoE	96%	82	Y	
							12	

Name of Course Instructor 1: Dr. Yuvaraja Naik
Employee ID of Course Instructor 1: PUNIV01016

Signature of Instructor-in-Charge

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PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: School of Engineering
Name of the Department: Mechanical Engineering
Area of Specialization: Thermal Engineering
Name of the Faculty Member: Dr.Ashish Srivastava
Tile of the Value Added Course: Introduction to Python Programming
Course Duration: [30 hours]
Course Code: MECV-062
Introduction to the Course:
The purpose of the course is to expose the students to the various aspects of python programming language. This course offers a comprehensive knowledge of python programming for data science. The course starts with basics of python programming, use of it in various application in data science and heat transfer applications.
Prerequisites of the course: Basic Maths
Objective: To learn about various Unconventional machining process, the various process parameters and their influence on performance and their applications.
Course Outcomes: On successful completion of the course the students shall be able to:
CO1: Summarize the basics of python programming.
CO2: Apply the concepts of programming in analyzing the data using Pandas.
CO3: Apply the concepts of programming in analyzing the data using Numpy
Course Content:
Python Basics, expressions, variables, operators, data structures, sets, lists, tuples and dictionaries. Conditioning and branching, loops, functions, opening, reading and writing files with Pandas. Handling data with Numpy one dimensional and two dimensional.

Name & Signature of the Faculty Member

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Dr.Ashish Srivastava

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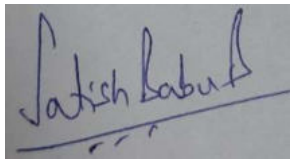

Approval by the HOD

Department of Mechanical Engineering

School of Engineering

STUDENT ID NO	STUDENT NAME	15-06-2022 6PM to 8PM	16-06-2022 6PM to 8PM	17-06-2022 6PM to 8PM	18-06-2022 6PM to 8PM	19-06-2022 6PM to 8PM	20-06-2022 6PM to 8PM	21-06-2022 6PM to 8PM	22-06-2022 6PM to 8PM	23-06-2022 6PM to 8PM	24-06-2022 6PM to 8PM	25-06-2022 6PM to 8PM	26-06-2022 6PM to 8PM	27-06-2022 6PM to 8PM	28-06-2022 6PM to 8PM	29-06-2022 6PM to 8PM	Total classes	Total classes attended	Percentage attended
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20191mec9006	MUSADIQ AHMED	2	2	2	0	2	2	0	2	2	2	1	2	2	2	2	**30**	**25**	85%
20191lme0044	Nithin T	2	2	0	2	2	0	2	2	2	2	2	2	2	2	2	**30**	**26**	97%
20181ECE0028	EKTHA R	2	2	2	0	2	2	2	0	2	2	2	2	2	2	2	**30**	**26**	85%
20181EEE0002	ABHISHEK R BHARADWAJ	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2	**30**	**28**	86%
20181MEC0022	Andey Devivaraprasad	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2	**30**	**28**	82%
20181MEC0033	AVULA VEERA SWAMY	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2	**30**	**28**	83%
20181MEC0065	GAGAN S KUMAR	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	**30**	**28**	87%
20181MEC0092	KARTHIK V	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	**30**	**28**	86%
20181MEC0135	NIMMALA SURYA TEJA	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	**30**	**28**	83%
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20181MEC0206	SUHAS S	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	**30**	**28**	91%
20181MEC0221	Venkatesh T	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	**30**	**28**	84%
20181MEC0243	GOWTHAM N	2	2	2	2	2	0	2	2	2	2	2	2	2	2	2	**30**	**28**	75%
20191ECE0235	PENDEKANTI AMAR KISHOR	2	2	0	2	2	2	2	0	2	2	2	1	2	2	2	**30**	**25**	82%
20191EEE0004	ARUN S	2	2	2	0	2	2	2	2	0	2	2	2	2	2	2	**30**	**26**	85%

20191EEE0009	DOKLA GHOUSE	2	0	2	2	2	2	0	2	2	2	2	2	2	2	2	**30**	**26**	87%
20191EEE0026	PERAM BHARGAV REDDY	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2	**30**	**28**	86%
20191EEE0031	PRUTHVIRAJ KUDACHI Kudachi	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2	**30**	**28**	92%
20191EEE0042	SHARANYA P C	2	2	2	2	2	2	2	2	0	2	2	2	2	2	2	**30**	**28**	85%
20191ISE0203	ROCHAN KUMAR GM	2	2	2	2	2	2	2	2	2	2	0	2	2	2	2	**30**	**28**	92%
20191ISE0205	P YOGESH	2	2	2	2	2	2	2	2	2	2	2	0	2	2	2	**30**	**28**	84%
20191LME0007	MADHU SUDHAN G	2	2	2	2	2	2	2	2	2	2	2	2	2	0	2	**30**	**28**	88%
20191MEC0010	AKASH BIRADAR	2	2	2	2	2	2	1	2	1	2	2	2	2	2	2	**30**	**28**	84%
20191MEC0034	CHETAN N CHALWADI	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2	**30**	**28**	90%
20191MEC0043	ELLUR VINAY PRASAD	2	2	2	2	2	2	0	2	2	2	2	2	2	2	2	**30**	**28**	85%
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20191MEC0074	MEKA VINEETH REDDY	2	2	2	0	2	2	2	0	2	2	2	2	2	2	2	**30**	**26**	85%
20191MEC0089	PAVAN KUMAR N																		
20191MEC0090	PERAM NARASIMHA CHOWDARY																		
20191MEC0096	ROSIGARI VARSHITH PRADHAN	2	2	2	0	2	2	2	2	2	2	2	2	2	2	2	**30**	**28**	87%
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20191MEC0103	SHAIK MOHAMMED NAYEEM																		

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Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :		MECV-062		Academic Year :			2021-2022	
Course Name :		Introduction to Python Programming		Semester :			Even Semester	
				Instructor-in-Charge Name :			Dr.Ashish Srivastava	
				Instructor-in-Charge Employee ID :			PUNIV01016	
S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20201LEE0011	Girish Mamilla	SoE	87%	75	Y	
2		20191mec9006	MUSADIQ AHMED	SoE	85%	82	Y	
3		20191lme0044	Nithin T	SoE	97%	85	Y	
4		20181ECE0028	EKTHA R	SoE	85%	82	Y	
5		20181EEE0002	ABHISHEK R BHARADWAJ	SoE	86%	82	Y	
6		20181MEC0022	Andey Devivaraprasad	SoE	82%	72	Y	
7		20181MEC0033	AVULA VEERA SWAMY	SoE	83%	83	Y	
8		20181MEC0065	GAGAN S KUMAR	SoE	87%	76	Y	
9		20181MEC0092	KARTHIK V	SoE	86%	76	Y	
10		20181MEC0135	NIMMALA SURYA TEJA	SoE	83%	84	Y	
11		20181MEC0203	SKANDESH R SHARMA	SoE	90%	73	Y	
12		20181MEC0206	SUHAS S	SoE	91%	71	Y	
13		20181MEC0221	Venkatesh T	SoE	84%	84	Y	
14		20181MEC0243	GOWTHAM N PENDEKANTI AMAR	SoE	75%	81	Y	
15		20191ECE0235	KISHOR	SoE	82%	70	Y	
16		20191EEE0004	ARUN S	SoE	85%	76	Y	
17		20191EEE0009	DOKLA GHOUSE	SoE	87%	81	Y	
18		20191EEE0026	PERAM BHARGAV REDDY	SoE	86%	77	Y	
19		20191EEE0031	PRUTHVIRAJ KUDACHI Kudachi	SoE	92%	75	Y	
20		20191EEE0042	SHARANYA P C	SoE	85%	80	Y	
21		20191ISE0203	ROCHAN KUMAR GM	SoE	92%	74	Y	
22		20191ISE0205	P YOGESH	SoE	84%	79	Y	
23		20191LME0007	MADHU SUDHAN G	SoE	88%	80	Y	
24		20191MEC0010	AKASH BIRADAR	SoE	84%	82	Y	
25		20191MEC0034	CHETAN N CHALWADI	SoE	90%	70	Y	
26		20191MEC0043	ELLUR VINAY PRASAD	SoE	85%	75	Y	
27		20191MEC0044	ERAGAMREDDY VENKATA MUNIGNANESWAR	SoE	88%	79	Y	
28		20191MEC0048	GUNASHEKAR C	SoE	84%	72	Y	
29		20191MEC0065	KURAKULA REVANTH	SoE	84%	70	Y	
30		20191MEC0074	MEKA VINEETH REDDY	SoE	85%	85	Y	
31		20191MEC0089	PAVAN KUMAR N	SoE	85%	79	Y	
32		20191MEC0090	PERAM NARASIMHA CHOWDARY	SoE	86%	84	Y	
33		20191MEC0096	Rosigari Varshith Pradhan	SoE	87%	71	Y	
34		20191MEC0101	SHAIK APSAR HUSSAIN	SoE	85%	84	Y	
35		20191MEC0103	SHAIK MOHAMMED NAYEEM	SoE	86%	70	Y	
							35	

Name of Course Instructor 1: Dr.Ashish Srivastava

Employee ID of Course Instructor 1: PUNIV01016

Signature of Instructor-in-Charge

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PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: **School of Engineering** Name of the Department: **Mechanical Engineering**

Area of Specialization: **Product Design** Name of the Faculty Member: **Mr Kunwar Chandra**

Tile of the Value Added Course: **FENDER SYSYTEMS DESIGN**

Course Duration**: [30 hours]**

Course Code: MECV-068

Skill prerequisites:

The students should have a basic knowledge of design of machine elements and mathematics distribution.

Introduction to the Course:

The purpose of the course is to expose the students to the various aspects of Industrial Design so as to develop new products considering ergonomics, environment and other human factors. Industrial designers create and produce designs for commercial, medical and industrial products. They also make models and prototypes of these designs for mass production. The products that industrial designers create cover a wide range of manufactured goods, from toys and toasters to furniture and heavy machinery. Some work is carried out on the development of new products. Other work is related to updating and improving the design of existing products. The risk assessment also plays an important role in the design development of the products and thus it must be considered and the course lays an inclination towards the risk Assessment tools used in the development phases of the product and outlines its importance to the students.

Course Outcomes: On successful completion of the course the students shall be able to :

C01: Understand the types of failure distribution,

C02: Analyze different models and faults in systems.,

C03: Design Fault tree and carry out CAPA for upgrade in design.,

C04: Design a sub system Fault tree on various distribution and MTTF.

Course Content: [Briefly mention all the important topics to be covered in this course]

Overview on failure and causes Systems: Components of a product design System, Types of design processes and failures in Systems Fault Tree Analysis: components of fault tree, Application of normal and beta distribution in fault tree analysis,

Analysis of real failures in design phases. Product Design Phases: Fundamentals of Product design Phases, Analysis of failures in different layers in product development phases, Mean time to failure, criticality analysis.

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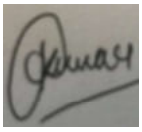
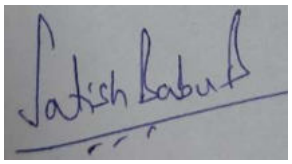
Corrective Action and Preventive Action: Fundamentals of Corrective Action and Preventive Action on Fault Tree Analysis, Application of CAPA Analysis of functions: Fundamentals of functional sub Systems and analysis of its change after FTA developments on product.

Name &Signature of the Faculty Member



Mr. Kunwar Chandra Singh



Approval by the HOD.

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Presidency University, Bengaluru

Department of Mechanical Engineering

School of Engineering

VAC DETAILS

Total number of hours:30

Value added Course(VAC) Name and Code: Introduction to Fault tree analysis and Criticality Analysis MECV040

Name of the Instructor: Kunwar Chandra Singh

S.No.	STUDENT ID NO	STUDENT NAME	02-Apr-22	02-Apr-22	03-Apr-22	03-Apr-22	09-Apr-22	09-Apr-22	10-Apr-22	10-Apr-22	16-Apr-22	16 APRIUL	17-Apr-22	17-Apr-22	24-Apr-22	24-Apr-22	30-Apr-22	30-Apr-22	01-May-22	01-May-22	07-May-22	07-May-22	08-May-22	08-May-22	10-May-22	10-May-22	12-May-22	12-May-22	14-May-22	14-May-22	15-May-22	15-May-22	Total classes conducted	Total classes attended	Percentage attended
			6-7pm	7-8pm	8-9 am	9-10am	6-7pm	7-8pm	5-6pm	6-7pm	6-7pm	7-8pm	6-7pm	7-8pm	9-10am	10-11am	6-7pm	7-8pm	5-6pm	6-7pm	10-11am	11-12noon	6-7pm	7-8pm	6-7pm	7-8pm	4-5pm	5-6pm	6-7pm	7-8pm	8-9am	9-10am			
1	20181ME C0005	ABHISHE K B M	P	P	P	P	P	P	P	P	P	A	P	P	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P	P	P	30	27	90%
2	20181ME C0009	ADITYA KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P	30	28	93%
3	20181ME C0018	AMITH L	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
4	20181ME C0024	ANUP V JADHAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
5	20181ME C0039	K BALAJI RAO	P	P	P	P	P	P	P	P	P	P	P	A	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20181ME C0132	NAVEED ALAM																																	

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	20181MEC0134	NAVEEN KUMAR GUPTA	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20181MEC0232	YATHIN KUMAR M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20181MEC9025	PAVAN KUMAR S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20191LME0011	ROHITKUMAR V	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20191LME0014	KARTHIK	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191LME0031	KEERTIVASAN M S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191MEC0023	BHAGATH H	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191MEC0026	BHARATH H	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20191MEC0028	BHUVAN C R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20191MEC0032	CALVIN M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20191MEC0085	NITHIN Y H	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191MEC0090	PERAM NARASIM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%

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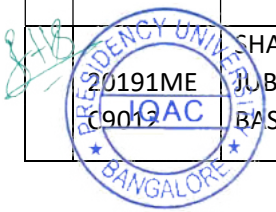
		HA CHOWDARY																																				
	20191MEC0101	SHAIK APSAR HUSSAIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191MEC0108	SYAMALA JAYA PRAKASH REDDY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20191MEC0109	SYED KHAJA MOHIDDIN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20191MEC0120	VINAYAK JOSHI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20191MEC0121	VYSHAGM NAIR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191MEC0136	BENJAMIN ZACHARIACHEN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191MEC0137	ASWIN SAJI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20191MEC9012	SHAIK JUBER BASHA	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %



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	20191MEC9014	AGRAJ P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20191MEC9018	ANIL H	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191MEC9022	SYED MOHAMMED NEMAAN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
	20191MEC9024	RANJITH BABU R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20201LMEE0002	D M THARUN	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20201LMEE0003	A NAVEEN KUMAR	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	30	30	100 %
	20201LMEE0004	NARENDRA KUMAR N	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	30	30	100 %
	20201LMEE0007	N GURUMURTHY	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20201LMEE0008	SANKET DILIP INGALE	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20201LMEE0010	SHARATH B K	P	P	A	A	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%

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	20201LME0011	LOKESH B N	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20201LME0012	MOHAMMED FAREEDM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20201LME0014	PRAJWALS V	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20201LME0016	HARSHITH AM	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20201LME0017	NITHIN S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20201LME0018	HARISHAH	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20201LME0020	SUNIL R	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20201MAM0001	VIVEK R	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20201MEC0020	SHIRSHENDU SARKAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20181MEC0005	ABHISHEK B M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20181MEC0009	ADITYA KUMAR	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %

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	20181MEC0018	AMITH L	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20181MEC0024	ANUP V JADHAV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20181MEC0039	K BALAJI RAO	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20181MEC0132	NAVEED ALAM	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20181MEC0134	NAVEEN KUMAR GUPTA	P	P	P	P	P	P	P	P	P	P	P	P	A	A	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20181MEC0232	YATHIN KUMAR M	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20181MEC9025	PAVAN KUMAR S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191LME0011	ROHITKUMAR V	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	27	90%
	20191LME0014	KARTHIK	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	28	93%
	20191LME0031	KEERTIVASAN M S	P	P	P	P	P	P	P	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %
	20191ME C0023	BHAGAT H H	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	30	30	100 %

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Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MECV-068	Academic Year :	2021-2022
Course Name :	FENDER SYSYTEMS DESIGN	Semester :	Even Semester
		Instructor-in-Charge Name :	Kunwar Chandra Singh
		Instructor-in-Charge Employee ID :	PUNIV00922

S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20181ME C0005	ABHISHE K B M	SoE	90%	79	Y	
2		20181MEC0009	ADITYA KUMAR	SoE	93%	76	Y	
3		20181MEC0018	AMITH L	SoE	100%	80	Y	
4		20181MEC0024	ANUP V JADHAV	SoE	100%	75	Y	
5		20181MEC0039	K BALAJI RAO	SoE	90%	77	Y	
6		20181MEC0132	NAVEED ALAM	SoE	13%	26	N	
7		20181MEC0134	NAVEEN KUMAR GUPTA	SoE	90%	70	Y	
8		20181MEC0232	YATHIN KUMAR M	SoE	93%	84	Y	
9		20181MEC9025	PAVAN KUMAR S	SoE	100%	72	Y	
10		20191LME0011	ROHITKU MAR V	SoE	100%	70	Y	
11		20191LME0014	KARTHIK	SoE	90%	70	Y	
12		20191LME0031	KEERTIVA SAN M S	SoE	90%	84	Y	
13		20191MEC0023	BHAGAT H H	SoE	90%	85	Y	
14		20191MEC0026	BHARATH H	SoE	93%	82	Y	
15		20191MEC0028	BHUVAN C R	SoE	100%	82	Y	
16		20191MEC0032	CALVIN M	SoE	100%	70	Y	
17		20191MEC0085	NITHIN Y N	SoE	90%	75	Y	
18		20191MEC0090	PERAM NARASIMHA CHOWDARY	SoE	90%	85	Y	
19		20191MEC0101	SHAIK APSAR HUSSAIN	SoE	90%	71	Y	
20		20191MEC0108	SYAMALA JAYA PRAKASH REDDY	SoE	93%	71	Y	
21		20191MEC0109	SYED KHAJA MOHIDDI N	SoE	100%	72	Y	
22		20191MEC0120	VINAYAK JOSHI	SoE	100%	79	Y	
23		20191MEC0121	VYSHAG M NAIR	SoE	90%	80	Y	
24		20191MEC0136	BENJAMI N ZACHARI ACHEN	SoE	90%	85	Y	
25		20191MEC0137	ASWIN SAJI	SoE	93%	71	Y	
26		20191MEC9012	SHAIK JUBER BASHA	SoE	100%	79	Y	
27		20191MEC9014	AGRAJ P	SoE	100%	72	Y	
28		20191MEC9018	ANIL H	SoE	90%	74	Y	
29		20191MEC9022	SYED MOHAM MED NEMAAN	SoE	80%	75	Y	
30		20191MEC9024	RANJITH BABU R	SoE	90%	75	Y	
31		20201LME0002	D M THARUN	SoE	93%	71	Y	
32		20201LME0003	A NAVEEN KUMAR	SoE	100%	79	Y	
33		20201LME0004	NAREND RA KUMAR N	SoE	100%	85	Y	
34		20201LME0007	N GURUMU RTHY	SoE	90%	74	Y	
35		20201LME0008	SANKET DILIP INGALE	SoE	90%	78	Y	
36		20201LME0010	SHARATH B K	SoE	93%	73	Y	
37		20201LME0011	LOKESH B N	SoE	100%	79	Y	
38		20201LME0012	MOHAM MED FAREED M	SoE	100%	78	Y	
39		20201LME0014	PRAJWAL S V	SoE	90%	71	Y	
40		20201LME0016	HARSHIT H AM	SoE	90%	74	Y	
41		20201LME0017	NITHIN S	SoE	93%	84	Y	
42		20201LME0018	HARISHA H	SoE	100%	76	Y	
43		20201LME0020	SUNIL R	SoE	100%	73	Y	
44		20201MAM0001	VIVEK R	SoE	90%	76	Y	
45		20201MEC0020	SHIRSHE NDU SARKAR	SoE	90%	84	Y	
46		20181MEC0005	ABHISHE K B M	SoE	93%	85	Y	
47		20181MEC0009	ADITYA KUMAR	SoE	100%	71	Y	
48		20181MEC0018	AMITH L	SoE	100%	84	Y	
49		20181MEC0024	ANUP V JADHAV	SoE	90%	76	Y	
50		20181MEC0039	K BALAJI RAO	SoE	90%	72	Y	
51		20181MEC0132	NAVEED ALAM	SoE	93%	81	Y	
52		20181MEC0134	NAVEEN KUMAR GUPTA	SoE	100%	77	Y	
53		20181MEC0232	YATHIN KUMAR M	SoE	100%	72	Y	
54		20181MEC9025	PAVAN KUMAR S	SoE	90%	80	Y	
55		20191LME0011	ROHITKU MAR V	SoE	90%	75	Y	
56		20191LME0014	KARTHIK	SoE	93%	71	Y	
57		20191LME0031	KEERTIVA SAN M S	SoE	100%	73	Y	
58		20191MEC0023	BHAGAT H H	SoE	100%	84	Y	
							56	

Name of Course Instructor 1: Kunwar Chandra Singh

Employee ID of Course Instructor 1: PUNIV00922

Signature of Instructor-in-Charge

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PRESIDENCY UNIVERSITY

(Established under the Presidency University Act, 2013 of the Karnataka Act 41 of 2013)

Name of the School: Engineering **Name of the Department:** Mechanical

Area of Specialization: Materials **Name of the Faculty:** Dr. Arpitha G R

Tile of the Value Added Course: Introduction to Composite materials

Course Duration: [30 hours]

Course Code: MECV-015

Introduction to the course: This course is designed to acquaint the students with the fundamentals, development and applications of composite materials. The purpose of this course is to introduce the students in the field of materials through an exposition of its classifications, method of fabrication, testing, and characterization of materials and application of materials.

Course Outcomes: On successful completion of the course the students shall be able to:

01 Classify the different types of composites

02 Describe the various methods of fabrication of composite materials

03 Explain the various methods of materials testing and characterization

04 Describe the various applications of composite materials

Course Content:

1. **Introduction to composite materials:** Definition of composites, History of composites, classification of composites, advantaged and disadvantages of composite materials.
2. **Methods of fabrication:** Hand-layup method, Vacuum bagging method, compression molding method, autoclave method, advanced methods of manufacturing.
3. **Testing:** Mechanical properties, dynamic mechanical properties, wear properties, water absorption properties.
4. **Characterization:** Scanning electron microscopy. X-Ray diffraction, TGA, FTIR, DSC, Contact angle etc.,
5. **Applications:** Case studies on composite materials.

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(Dr. Arpitha G R)

Name &Signature of the Faculty Member

Approval by the HOD

Department of Mechanical Engineering

School of Engineering-Development and Recent Applications of Polymer Matrix Composites(MECV018)

STUDENT ID NO	STUDENT NAME	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	12-07-2021 6PM to 8PM	Total classes conducted	Total classes attended	Percentage attended
20201LME0018	HARISHA H	2	1	2	2	1	2	1	2	2	2	2	2	2	2	2	**30**	**27**	95
20201LME0011	Lokesh B N	2	2	2	1	2	2	2	2	1	2	2	2	2	2	2	**30**	**28**	97
20191LME0043	RITESH GOWDA	2	2	1	2	2	1	2	1	2	1	2	1	2	2	2	**30**	**25**	90
20201LME0015	Santhosh Kumar G	0	2	2	2	2	0	2	0	2	2	2	2	2	2	1	**30**	**23**	93
20191LME0023	Darshan	2	2	1	2	2	2	1	2	2	2	2	2	2	2	2	**30**	**28**	96
20181MEC0087	K VENUGOPAL	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	**30**	**28**	95
20181MEC9020	Manish Gowda S	2	1	2	2	2	1	2	1	2	1	2	1	2	2	2	**30**	**25**	93
20191LME0024	Naveen Kumar.S	2	2	0	2	0	2	1	2	2	2	2	2	2	2	2	**30**	**25**	93
20191LME0028	KARTHIK C	1	2	2	2	2	1	2	2	1	2	1	2	1	2	2	**30**	**25**	93
20191LME0029	NUTHAN MANOJ	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	**30**	**29**	98
20191LME0030	Sai jayanth k	2	2	0	2	2	0	2	1	2	2	2	2	2	2	2	**30**	**25**	93
20191MEC0021	ARJUN F THAMPI	1	2	1	2	2	1	2	1	2	1	2	1	2	2	2	**30**	**24**	91
20191MEC0083	NISHANTH KUMAR K	2	1	2	2	1	2	1	2	1	2	1	2	1	2	2	**30**	**24**	93
20191MEC0093	RAKSHITH K N	0	2	2	0	2	0	2	1	2	2	2	2	2	2	2	**30**	**23**	86

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20191MEC0119	VIKAS S	2	0	2	0	2	2	2	1	2	2	2	2	2	2	2	**30**	**25**	93
20201LME0003	A NAVEEN KUMAR	2	2	1	2	2	2	1	2	2	2	2	2	2	2	2	**30**	**28**	97
20201LME0008	SANKET DILIP INGALE	0	2	2	0	2	2	0	2	2	0	2	2	0	2	2	**30**	**22**	93
20201LME0012	Mohammed Fareed M	2	0	2	2	0	2	2	0	2	2	0	2	2	1	2	**30**	**21**	91
20201LME0013	Ravikumar K	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	**30**	**27**	97
20201MCM0007	SHARIKH K	2	2	1	2	2	1	2	2	2	2	2	2	2	2	2	**30**	**28**	98
20201LME0018	HARISHA H	2	2	2	2	0	2	2	2	2	2	2	2	2	2	2	**30**	**28**	95
20201MCM0010	SIDDHARTH BALAGOPAL	2	2	2	2	2	2	2	2	2	0	2	2	2	2	2	**30**	**28**	95

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Presidency University, Bengaluru
Value Added Course Marksheet
School of Engineering

Course Code :	MECV-015	Academic Year :	2021-2022
Course Name :	Introduction to Composite materials	Semester :	Odd Semester
		Instructor-in-Charge Name :	Dr. Arpitha G R
		Instructor-in-Charge Employee ID :	PUNIV01267

S. No	UID No	Roll No	Name	School (e.g. SoE/SoL etc)	Attendance (in %)	Marks (100M)	Eligible for Certificate (Y/N)	Remark
1		20201LME0018	HARISHA H	SoE	95%	70	Y	
2		20201LME0011	LOKESH B N	SoE	97%	72	Y	
3		20191LME0043	RITESH GOWDA B	SoE	90%	79	Y	
4		20201LME0015	Santhosh Kumar G	SoE	93%	78	Y	
5		20191LME0023	DARSHAN M	SoE	96%	79	Y	
6		20181MEC0087	K VENUGOPAL	SoE	95%	76	Y	
7		20181MEC9020	Manish Gowda S	SoE	93%	75	Y	
8		20191LME0024	Naveen Kumar.S	SoE	93%	70	Y	
9		20191LME0028	KARTHIK C	SoE	93%	81	Y	
10		20191LME0029	NUTHAN MANOJ KUMAR B	SoE	98%	75	Y	
11		20191LME0030	SAI JAYANTH K	SoE	93%	71	Y	
12		20191MEC0021	ARJUN F THAMPI	SoE	91%	71	Y	
13		20191MEC0083	NISHANTH KUMAR K	SoE	93%	75	Y	
14		20191MEC0093	RAKSHITH K N	SoE	86%	75	Y	
15		20191MEC0119	VIKAS S	SoE	93%	77	Y	
16		20201LME0003	A NAVEEN KUMAR	SoE	97%	74	Y	
17		20201LME0008	SANKET DILIP INGALE	SoE	93%	85	Y	
18		20201LME0012	MOHAM MED FAREED M	SoE	91%	78	Y	
19		20201LME0013	Ravikumar K	SoE	97%	75	Y	
20		20201MCM0007	SHARIKH K	SoE	98%	83	Y	
21		20201LME0018	HARISHA H	SoE	95%	72	Y	
22		20201MCM0010	SIDDHARTH BALAGOPAL	SoE	95%	70	Y	
							22	

Name of Course Instructor 1: Dr. Arpitha G R
Employee ID of Course Instructor 1: PUNIV01267

Signature of Instructor-in-Charge

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