

SYLLABUS/
CURRICULUM



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

(Approved by AICTE & Affiliated to Anna University, Chennai)

Madurai - Sivagangai Highway, Arasanoor, Thirumansolai Post, Sivagangai Dt. - 630 561, Tamilnadu
Mobile : 9842102628, 7373002628 Email: info@psyec.edu.in Website : www.psyec.edu.in

City Office : 10, Pandian Saraswathi St, Sivagami Nagar, Narayanapuram, Madurai - 625 014. Telefax- 0452 2682338, Mobile : 98423-02628

Department of Mechanical Engineering

Academic Year 2020-2021

VACME2021PDD -Product Design and Development

Objective of the Course

- To develop knowledge in the area of Product Design & Development.
- To adhere the knowledge on recent Product Design & Development

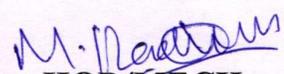
Chapter 1	INTRODUCTION	7
Need for IPPD - Strategic importance of Product development - integration of customer, designer, material supplier and process planner, Competitor and customer - Behavior analysis. Understanding customer - prompting customer understanding - involve customer in development and managing requirements -Organization - process management and improvement - Plan and establish product specifications		
Chapter II	CONCEPT GENERATION AND SELECTION	7
Task - Structured approaches - clarification - search - externally and internally - explore systematically -reflect on the solutions and processes - concept selection - methodology - benefits.		
Chapter III	PRODUCT ARCHITECTURE	7
Implications - Product change - variety - component standardization - product performance - manufacturability - product development management - establishing the architecture - creation --clustering - geometric layout development - fundamental and incidental interactions - related system level design issues - secondary systems - architecture of the chunks - creating detailed interface specifications.		
Chapter IV	INDUSTRIAL DESIGN	7
Integrate process design - Managing costs - Robust design - Integrating CAE, CAD, AIC tools -Simulating product performance and manufacturing processes electronically - Need for industrial design -impact - design process - investigation of for industrial design - impact - design process - investigation of customer needs - conceptualization - refinement - management of the industrial design process -technology driven products - user - driven products - assessing the quality of industrial design.		
Chapter V	DESIGN FOR MANUFACTURING AND PRODUCT DEVELOPMENT	7
Definition - Estimation of Manufacturing cost - reducing the component costs and assembly costs -Minimize system complexity - Prototype basics - principles of prototyping - planning for prototypes -Economic Analysis - Understanding and representing tasks - baseline project planning - accelerating the project - project execution.		

Total: 35 hours

Outcomes

- Explain various Product Design & Development techniques.
- Compare different latest Product Design & Development Methods.


Course Coordinator


HOD/MECH


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Department of Mechanical Engineering

Academic Year 2020 - 2021

VACME2021PDD -Product Design and Development

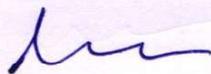
Course Schedule

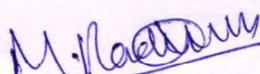
Date	Time	TOPICS
03/12/2020	9.00 am to 12.15 pm	Need for IPPD - Strategic importance of Product development - integration of customer, designer, material supplier and process planner, Competitor and customer - Behavior analysis. Understanding customer - prompting customer
	1.00 pm to 4.15 pm	understanding - involve customer in development and managing requirements - Organization - process management and improvement - Plan and establish
04/12/2020	9.00 am to 12.15 pm	Task - Structured approaches - clarification - search - externally and internally - explore systematically -reflect on the solutions and processes - concept selection
	1.00 pm to 4.15 pm	- methodology - benefits.
05/12/2020	9.00 am to 12.15 pm	Implications - Product change - variety - component standardization - product performance - manufacturability - product development management
	1.00 pm to 4.15 pm	- establishing the architecture - creation --clustering - geometric layout development - fundamental and incidental interactions - related system level design issues - secondary systems - architecture of the chunks - creating detailed
06/12/2020	9.00 am to 12.15 pm	Integrate process design - Managing costs - Robust design - Integrating CAE, CAD, AIC tools -Simulating product performance and manufacturing
	1.00 pm to 4.15 pm	processes electronically - Need for industrial design -impact - design process
07/12/2020	9.00 am to 12.15 pm	Investigation of for industrial design - impact - design process - investigation of customer needs - conceptualization - refinement - management of the
	1.00 pm to 4.15 pm	industrial design process -technology driven products - user - driven products - assessing the quality of industrial design.
08/12/2020	9.00 am to 12.15 pm	Definition - Estimation of Manufacturing cost - reducing the component costs and assembly costs -Minimize system complexity - Prototype basics - principles of prototyping - planning for prototypes -Economic Analysis -
	1.00 pm to 4.15 pm	Understanding and representing tasks - baseline project planning - accelerating the project - project execution

Total Hours: 35

Tea Break: 11:00 am to 11:15am & 03:00 pm to 03:15 pm

Lunch Break: 12:15 pm to 01:00pm


Course Coordinator


HOD/MECH


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DEPARTMENT OF MECHANICAL ENGINEERING

Academic Year 2020-2021

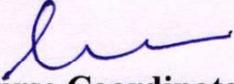
One page Report

Name of the course : Product Design and Development
Course Code : VACME2021PDD
Course Coordinator : Mr.T.S. Anandhasekar
Date/Duration : 03.12.2020 - 08.12.2020 — 35 hours

I here affirm that the Third year students of strength 30 have been taught the value-added course title “**Product Design and Development**” as per the syllabus and completed within the stipulated time duration.

I confirm that the value-added course titled “**Product Design and Development**” has been conducted in the beginning of the semester and course delivery along with the attendance of the students was recorded.

I confirmed that all the students were actively participated in the course and the eligible students were certified for the course.


Course Coordinator


HOD/MECH


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ASSESSMENT PROCEDURE



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

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Department of Mechanical Engineering

Academic Year 2020 - 2021

VACME2021PDD -Product Design and Development

Assessment Questions with Answer

1. The following is the preliminary stage of Production planning
 - a) Capacity planning
 - b) Material requirements planning
 - c) Scheduling
 - d) Product development and design**
2. The following is the source(s) for developing new or improved product
 - a) Research and Development department of the enterprise
 - b) Consumer suggestions and Complaints
 - c) Other competitive products in the market
 - d) All of the above**
3. Product cost can be reduced by considering the following aspect(s) at the design stage
 - a) Minimum number of operations
 - b) Unnecessary tight tolerance should not be provided
 - c) Design should consist of standard parts
 - d) All of the above**
4. The ultimate objective of the product is
 - a) To provide a new look
 - b) Utilizing existing manpower
 - c) To monopolize the market**
 - d) All of the above
5. Based on their field of application, manufactured goods can be classified as
 - a) Primary, Secondary and Tertiary
 - b) Consumer, Capital and Defense**
 - c) Essential, Market and Standard
 - d) Primary, Luxury and Consumer

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6. The following aspect of product is concerned with the ease and efficiency of the product performance

- a) **Functional aspect**
- b) Operational aspect
- c) Durability aspect
- d) Aesthetic aspect

7. The simplicity to operate and easy to understand of product is concerned with its following aspect

- a) **Functional aspect**
- b) Operational aspect
- c) Durability aspect
- d) Aesthetic aspect

8. _____ helps in establishing the interchangeability of products

- a) **Standardization**
- b) Simplification
- c) Diversification
- d) Specialization

9. In which of the following type the manufacturing cost may go up

- a) Standardization
- b) Simplification
- c) **Diversification**
- d) All of the above

10. Product is the ultimate objective of variety reduction

- a) Simplification
- b) Standardization
- c) **Specialization**
- d) All of the above

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Department of Mechanical Engineering

Academic Year 2020 - 2021

VACME2021PDD -Product Design and Development

Assessment Test Paper

REGISTER NUMBER: 912018114004

NAME OF THE STUDENT: M. BHARATHI

1. The following is the preliminary stage of Production planning

- e) Capacity planning
- f) Material requirements planning
- g) Scheduling
- h) Product development and design

8/10

2. The following is the source(s) for developing new or improved product

- e) Research and Development department of the enterprise
- f) Consumer suggestions and Complaints
- g) Other competitive products in the market
- h) All of the above

3. Product cost can be reduced by considering the following aspect(s) at the design stage

- e) Minimum number of operations
- f) Unnecessary tight tolerance should not be provided
- g) Design should consist of standard parts
- h) All of the above

4. The ultimate objective of the product is

- e) To provide a new look
- f) Utilizing existing manpower
- g) To monopolize the market
- h) All of the above

5. Based on their field of application, manufactured goods can be classified as

- e) Primary, Secondary and Tertiary
- f) Consumer, Capital and Defense
- g) Essential, Market and Standard
- h) Primary, Luxury and Consumer



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6. The following aspect of product is concerned with the ease and efficiency of the product performance

- e) Functional aspect
- f) Operational aspect
- g) Durability aspect
- h) Aesthetic aspect

7. The simplicity to operate and easy to understand of product is concerned with its following aspect

- e) Functional aspect
- f) Operational aspect
- g) Durability aspect
- h) Aesthetic aspect

8. _____ helps in establishing the interchangeability of products

- e) Standardization
- f) Simplification
- g) Diversification
- h) Specialization

9. In which of the following type the manufacturing cost may go up

- e) Standardization
- f) Simplification
- g) Diversification
- h) All of the above

10. Product is the ultimate objective of variety reduction

- e) Simplification
- f) Standardization
- g) Specialization
- h) All of the above

Enrollment
Student Name
List

Pandian Saraswathi yadav Engineering College, Arasanoor -630561

Department of Mechanical Engineering

Student Registration Sheet

Academic Year : 2020-2021

Course Code : VACME2021PDD

Course Name : Product Design and Development

Duration of hours : 35

Period of Course : 03.12.2020 to 08.12.2020

Enrolled Students List			Signature
Sl. No	Register Number	Student Name	
1	912018114002	AZHAGUMANIKANDAN A	Azhagumanikandan A.
2	912018114003	BALAMURUGAN R	R. Balamurugan
3	912018114004	BHARATH M	BHARATH M.
4	912018114005	DINESH MAPPILLAI DURAI SV	Dinesh mappillai Durai SV
5	912018114007	GUNA K	Guna K
6	912018114008	HARIHARAN G	HARIHARAN G
7	912018114009	INDHIRA KUMAR G	Indhira Kumar G
8	912018114010	JAYSHANKAR YADAV	KARTHIK PRASANNA
9	912018114011	KARTHIK PRASANNA G	Karthik Prasan
10	912018114012	MANI PRABHU K	Mani prabhu k
11	912018114013	MANOJ S	Manoj S
12	912018114014	MOHAN R	MOHAN R
13	912018114015	MUNIYASAMY B	Muniyasamy B
14	912018114016	MUTHUKUMAR M	Muthu Kumar M
15	912018114017	MUTHU KUMAR M	MUTHU KUMAR M
16	912018114019	MUTHURAJA V	V. muthu Raja
17	912018114020	PRAVEEN KUMAR K	Praveen Kumar
18	912018114021	PREM K	PREM K
19	912018114022	SANTHANA SELVAM V	Santhana Selvam V
20	912018114025	SETHUMADHAVAN B	Sethumadavan B
21	912018114026	SIVASANKAR P	SIVASANKAR P
22	912018114027	VARUN CHAKKARAVARTHI T	T. Varun Chakravarti
23	912018114028	VASANTH N	Vasanth N
24	912018114301	MANIKANDAN S	MANIKANDAN S
25	912018114302	RAVICHANDRAN R	Ravichandran R
26	912018114303	SANJAY M	M. Sanjay
27	912018114304	SIVARAJ J	SIVARAJ J
28	912018114701	KABILAN K	Kabilan K
29	912018114702	LANKESHWARAN B	Lankeshwaran B
30	912018114703	VENKATESH K	VENKATESH K


Course coordinator


HOD/MECH


PRINCIPAL

STUDENTS ATTENDANCE

Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACME2021PDD

Course Name : Product Design and Development

Duration of hours : 35

Period of Course : 03.12.2020 to 08.12.2020

Attendance Sheet			Date: 03.12.2020					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azh	Azh	Azh	Azh	Azh	Azh
2	912018114003	BALAMURUGAN R	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	Dmsv	Dmsv	Dmsv	Dmsv	Dmsv	Dmsv
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Harihara	Harihara	Harihara	Harihara	Harihara	Harihara
7	912018114009	INDHIRA KUMAR G	Indira	Indira	Indira	Indira	Indira	Indira
8	912018114010	JAYSHANKAR YADAV	Jyada	Jyada	Jyada	Jyada	Jyada	Jyada
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIYASAMY B	Muni	Muni	Muni	Muni	Muni	Muni
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Prave	Prave	Prave	Prave	Prave	Prave
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Selva	Selva	Selva	Selva	Selva	Selva
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivara	Sivara	Sivara	Sivara	Sivara	Sivara
28	912018114701	KABILAN K	Kabi	Kabi	Kabi	Kabi	Kabi	Kabi
29	912018114702	LANKESHWARAN B	Lanka	Lanka	Lanka	Lanka	Lanka	Lanka
30	912018114703	VENKATESH K	Venkata	Venkata	Venkata	Venkata	Venkata	Venkata

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course coordinator

M. Neelam
HOD/MECH

PRINCIPAL

Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACME2021PDD

Course Name : Product Design and Development

Duration of hours : 35

Period of Course : 03.12.2020 to 08.12.2020

Attendance Sheet			Date: 04/12/2020					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZIAGUMANIKANDAN A	Aziya	Aziya	Aziya	Aziya	Aziya	Aziya
2	912018114003	BALAMURUGAN R	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	Dmsv	Dmsv	Dmsv	Dmsv	Dmsv	Dmsv
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hara	Hara	Hara	Hara	Hara	Hara
7	912018114009	INDHIRA KUMAR G	Indira	Indira	Indira	Indira	Indira	Indira
8	912018114010	JAYSHANKAR YADAV	Jyash	Jyash	Jyash	Jyash	Jyash	Jyash
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIYASAMY B	Muniya	Muniya	Muniya	Muniya	Muniya	Muniya
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTIANA SELVAM V	Santiana	Santiana	Santiana	Santiana	Santiana	Santiana
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivara	Sivara	Sivara	Sivara	Sivara	Sivara
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B	Lanka	Lanka	Lanka	Lanka	Lanka	Lanka
30	912018114703	VENKATESH K	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course coordinator

M. Radhika
HOD/MEECH

PRINCIPAL

Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACME2021PDD

Course Name : Product Design and Development

Duration of hours : 35

Period of Course : 03.12.2020 to 08.12.2020

Attendance Sheet			Date: 05.12.2020					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
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2	912018114003	BALAMURUGAN R	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala	R.Bala
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	Dmsu	Dmsu	Dmsu	Dmsu	Dmsu	Dmsu
5	912018114007	GUNA K	Gunk	Gunk	Gunk	Gunk	Gunk	Gunk
6	912018114008	HARIHARAN G	Hari	Hari	Hari	Hari	Hari	Hari
7	912018114009	INDHIRA KUMAR G	Indira	Indira	Indira	Indira	Indira	Indira
8	912018114010	JAYSHANKAR YADAV	Jayshankar	Jayshankar	Jayshankar	Jayshankar	Jayshankar	Jayshankar
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIYASAMY B	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthuraja	Muthuraja	Muthuraja	Muthuraja	Muthuraja	Muthuraja
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Santha	Santha	Santha	Santha	Santha	Santha
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh
30	912018114703	VENKATESH K	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course coordinator

M. Pradeep
HOD/MECH

P.S.
PRINCIPAL

Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACME2021PDD

Course Name : Product Design and Development

Duration of hours : 35

Period of Course : 03.12.2020 to 08.12.2020

Attendance Sheet			Date: 06.12.2020					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15 pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan
2	912018114003	BALAMURUGAN R	Balamurugan	Balamurugan	Balamurugan	Balamurugan	Balamurugan	Balamurugan
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan	Hariharan
7	912018114009	INDHIRA KUMAR G	Indhira	Indhira	Indhira	Indhira	Indhira	Indhira
8	912018114010	JAYSHANKAR YADAV	Jayshankar	Jayshankar	Jayshankar	Jayshankar	Jayshankar	Jayshankar
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIYASAMY B	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthuraja	Muthuraja	Muthuraja	Muthuraja	Muthuraja	Muthuraja
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Santhana	Santhana	Santhana	Santhana	Santhana	Santhana
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Sivasankar	Sivasankar	Sivasankar	Sivasankar	Sivasankar	Sivasankar
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Manikandan	Manikandan	Manikandan	Manikandan	Manikandan	Manikandan
25	912018114302	RAVICHANDRAN R	Ravichandran	Ravichandran	Ravichandran	Ravichandran	Ravichandran	Ravichandran
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B	Lankeshwaran	Lankeshwaran	Lankeshwaran	Lankeshwaran	Lankeshwaran	Lankeshwaran
30	912018114703	VENKATESH K	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course coordinator

HOD/MECH

PRINCIPAL

R RAJA

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Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACME2021PDD

Course Name : Product Design and Development

Duration of hours : 35

Period of Course : 03.12.2020 to 08.12.2020

Attendance Sheet			Date: 03.12.2020					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhag	Azhag	Azhag	Azhag	Azhag	Azhag
2	912018114003	BALAMURUGAN R	R-bal	R-bal	R-bal	R-bal	R-bal	R-bal
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	Dnsu	Dnsu	Dnsu	Dnsu	Dnsu	Dnsu
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hari	Hari	Hari	Hari	Hari	Hari
7	912018114009	INDHIRA KUMAR G						
8	912018114010	JAYSHANKAR YADAV	Jaysh	Jaysh	Jaysh	Jaysh	Jaysh	Jaysh
9	912018114011	KARTHIK PRASANNA G	Karthi	Karthi	Karthi	Karthi	Karthi	Karthi
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIASAMY B						
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V						
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Siva	Siva	Siva	Siva	Siva	Siva
22	912018114027	VARUN CHAKKARAVARTHI T	T-varun	T-varun	T-varun	T-varun	T-varun	T-varun
23	912018114028	VASANTH N						
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B						
30	912018114703	VENKATESH K	Venka	Venka	Venka	Venka	Venka	Venka

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

Lunch Break 12:15 pm to 01:00pm

Course coordinator

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HOD/MECH

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PRINCIPAL

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Student Attendance Sheet

Academic Year : 2020-2021

Course Code : VACME2021PDD

Course Name : Product Design and Development

Duration of hours : 35

Period of Course : 03.12.2020 to 08.12.2020

Attendance Sheet			Date: 08-12-2020					
Sl. No	Register Number	Student Name	09.00 am - 10.00 am	10.00 am - 11.00 am	11.15 am - 12.15pm	01.00 pm - 02.00 pm	02.00 pm - 03.00 pm	03.15 pm - 04.15 pm
1	912018114002	AZHAGUMANIKANDAN A	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan	Azhagan
2	912018114003	BALAMURUGAN R	Bala	Bala	Bala	Bala	Bala	Bala
3	912018114004	BHARATH M	Bharath	Bharath	Bharath	Bharath	Bharath	Bharath
4	912018114005	DINESH MAPPILLAI DURAI SV	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh	Dinesh
5	912018114007	GUNA K	Guna	Guna	Guna	Guna	Guna	Guna
6	912018114008	HARIHARAN G	Hari	Hari	Hari	Hari	Hari	Hari
7	912018114009	INDHIRA KUMAR G	Indhira	Indhira	Indhira	Indhira	Indhira	Indhira
8	912018114010	JAYSHANKAR YADAV	Jayshankar	Jayshankar	Jayshankar	Jayshankar	Jayshankar	Jayshankar
9	912018114011	KARTHIK PRASANNA G	Karthik	Karthik	Karthik	Karthik	Karthik	Karthik
10	912018114012	MANI PRABHU K	Mani	Mani	Mani	Mani	Mani	Mani
11	912018114013	MANOJ S	Manoj	Manoj	Manoj	Manoj	Manoj	Manoj
12	912018114014	MOHAN R	Mohan	Mohan	Mohan	Mohan	Mohan	Mohan
13	912018114015	MUNIYASAMY B	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy	Muniyasamy
14	912018114016	MUTHUKUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
15	912018114017	MUTHU KUMAR M	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
16	912018114019	MUTHURAJA V	Muthu	Muthu	Muthu	Muthu	Muthu	Muthu
17	912018114020	PRAVEEN KUMAR K	Praveen	Praveen	Praveen	Praveen	Praveen	Praveen
18	912018114021	PREM K	Prem	Prem	Prem	Prem	Prem	Prem
19	912018114022	SANTHANA SELVAM V	Santhana	Santhana	Santhana	Santhana	Santhana	Santhana
20	912018114025	SETHUMADHAVAN B	Sethu	Sethu	Sethu	Sethu	Sethu	Sethu
21	912018114026	SIVASANKAR P	Sivasankar	Sivasankar	Sivasankar	Sivasankar	Sivasankar	Sivasankar
22	912018114027	VARUN CHAKKARAVARTHI T	Varun	Varun	Varun	Varun	Varun	Varun
23	912018114028	VASANTH N	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth	Vasanth
24	912018114301	MANIKANDAN S	Mani	Mani	Mani	Mani	Mani	Mani
25	912018114302	RAVICHANDRAN R	Ravi	Ravi	Ravi	Ravi	Ravi	Ravi
26	912018114303	SANJAY M	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay	Sanjay
27	912018114304	SIVARAJ J	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj	Sivaraj
28	912018114701	KABILAN K	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan	Kabilan
29	912018114702	LANKESHWARAN B	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh	Lankesh
30	912018114703	VENKATESH K	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh	Venkatesh

Tea Break FN- 11:00 am to 11:15am & AN-03:00 pm to 03:15 pm

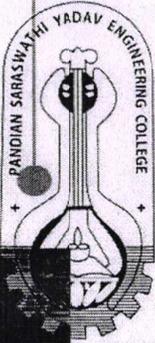
Lunch Break 12:15 pm to 01:00pm

Course coordinator

HOD/MECH

PRINCIPAL

MODEL
CERTIFICATES



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.

Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu – 630 561

Value added course on Product Design and Development

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

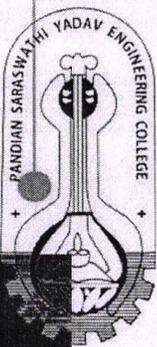
This is to Certify that Mr/Ms..... GUHA . K of IIIrd Year - Mech
has actively participated in the value-added course on **Product Design and
Development** organized by the Department of Mechanical Engineering From
03.12.2020 to 08.12.2020 (35 Hours) at Pandian Saraswathi Yadav Engineering
College, Sivagangai.

Mr. M. Radhakrishnan
HOD/MECH

R RAJA

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by R RAJA
Date: 2024.06.26
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Dr. R. Raja
Principal



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.

Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu – 630 561

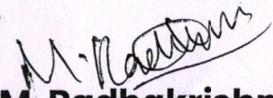
Value added course on Product Design and Development

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

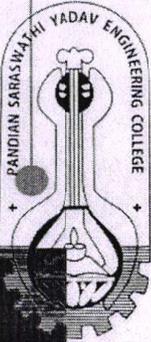
This is to Certify that Mr/Ms..... BHARATH . M of IIIrd Year - Mech
has actively participated in the value-added course on **Product Design and Development** organized by the Department of Mechanical Engineering From 03.12.2020 to 08.12.2020 (35 Hours) at Pandian Saraswathi Yadav Engineering College, Sivagangai.


Mr. M. Radhakrishnan
HOD/MECH

R RAJA

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Dr. R. Raja
Principal



PANDIAN SARASWATHI YADAV ENGINEERING COLLEGE

Approved by AICTE & Affiliated to Anna University, Chennai.

Arasanoor, Thirumansolai Post, Sivagangai – Madurai Highway, Tamilnadu – 630 561

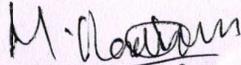
Value added course on Product Design and Development

Organized by

DEPARTMENT OF MECHANICAL ENGINEERING

CERTIFICATE

This is to Certify that Mr/~~Ms~~..... MOHAN . R of IInd Year - Mech
has actively participated in the value-added course on **Product Design and
Development** organized by the Department of Mechanical Engineering From
03.12.2020 to 08.12.2020 (35 Hours) at Pandian Saraswathi Yadav Engineering
College, Sivagangai.


Mr. M. Radhakrishnan
HOD/MECH

R RAJA

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R RAJA
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Dr. R. Raja
Principal