



# Sandip University

**Mahiravani, Trimbak Road, Tal & Dist. Nashik 422213, Maharashtra**  
 Phone: 02594-222541, 222582 Fax: 02594 222555

## School of Engineering and Technology

### Course Structure for Post Graduate Programme of Master of Technology (Design Engineering)

#### Semester-I

Sr. No	Code	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1.	PC	PDE101	Finite Element Methods	03	01	--	04	4	3	50	50	--	100
2.	PC	PDE102	Advanced Mechanics of Solids	04	--	--	04	4	3	50	50	--	100
3.	PC	17RDP101	Research Methodology	04	--	--	04	4	3	50	50	--	100
4.	PC	PMT106	Transforms, Calculus of Variations and Reliability	03	01	--	04	4	3	50	50	--	100
5.	PC	PDE111	Computation Laboratory-I	--	--	04	04	2	2	25	--	25	50
6.	PC	PDE112	Seminar-I			02	02	1	2	25	--	25*	50
7.	PE	PDE105	Elective-I	04	--	--	04	4	3	50	50	--	100
<b>Total</b>				<b>18</b>	<b>02</b>	<b>06</b>	<b>26</b>	<b>23</b>	<b>--</b>	<b>300</b>	<b>250</b>	<b>50</b>	<b>600</b>

**CIA: Continuous Internal Assessment**  
**L: Theory Lecture**  
**T: Tutorial**  
**P: Practical**

**TH: Theory Exam.**  
**\*: Oral Examination**  
**PC: Programme Core**  
**PE: Programme Elective**

<b>Elective-I (any one)</b>
1. Composite Structures
2. Theory of Elasticity and Plasticity
3. Tribology in Design and Manufacturing

#### Details of Continuous Internal Assessment (CIA)

<b>CIA</b>	<b>Weightage</b>	<b>Description</b>
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Presentation by students
CIA 4	10%	Research Based Activity
<b>TOTAL</b>	<b>50%</b>	



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**School of Engineering and Technology**  
**Course Structure for Post Graduate Programme of Master of Technology (Design Engineering)**

**Semester-II**

Sr. No	Code	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1.	PC	PDE201	Quality Control & Reliability	04	--	--	04	4	3	50	50	--	100
2.	PC	PDE202	Advanced Vibration & Noise Control	03	01	--	04	4	3	50	50	--	100
3.	PC	PDE203	Optimization Techniques for Engineering Design	04	--	--	04	4	3	50	50	--	100
4.	PC	PDE204	Kinematics & Dynamics of Machines	03	01	--	04	4	3	50	50	--	100
5.	PC	PDE211	Computation Laboratory-II	--	--	04	04	2	2	25	--	25	50
6.	PC	PDE212	Seminar-II	--	--	02	02	1	2	25	--	25*	50
7.	PE	PDE205	Elective-II	04	--	--	04	4	3	50	50	--	100
<b>Total</b>				<b>18</b>	<b>02</b>	<b>06</b>	<b>26</b>	<b>23</b>	<b>--</b>	<b>300</b>	<b>250</b>	<b>50</b>	<b>600</b>

CIA: Continuous Internal Assessment

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PC: Programme Core

PE: Programme Elective

<b>Elective-II (any one)</b>
1. Fracture Mechanics
2. Acoustic and Noise Control
3. Advanced Engineering Materials

**Details of Continuous Internal Assessment (CIA)**

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Presentation by students
CIA 4	10%	Research Based Activity
<b>TOTAL</b>	<b>50%</b>	



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**Semester– III**

Sr. No	Code	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
1.	PC	PDE311	Dissertation Stage -I	--	--	40	40	20		50	--	50*	100
<b>Total</b>								<b>20</b>					

**CIA: Continuous Internal Assessment**  
**L: Theory Lecture**  
**T: Tutorial**  
**P: Practical**

**TH: Theory Exam.**  
**\*: Oral Examination**  
**PC: Programme Core**

**Details of Continuous Internal Assessment (CIA)**

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Presentation by students
CIA 4	10%	Research Based Activity
<b>TOTAL</b>	<b>50%</b>	



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**Course Structure for Post Graduate Programme of Master of Technology (Design Engineering)**  
**Semester– IV**

Sr. No	Code	Course Code	Theory Paper/Practical	Teaching Scheme (Hrs/Week)				C	Duration of University Exam. (Hrs.)	Formative CIA	Summative		Total Marks
				L	T	P	Total				TH	OR / PR	
2.	PC	PDE411	Dissertation Stage -II	--	--	40	40	20		50	--	100*	150
<b>Total</b>								<b>20</b>					

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**\*: Oral Examination**  
**PC: Programme Core**

**Details of Continuous Internal Assessment (CIA)**

CIA	Weightage	Description
CIA 1	10%	Home Assignment
CIA 2	20%	Mid-Term Exam (MTE)
CIA 3	10%	Presentation by students
CIA 4	10%	Research Based Activity
<b>TOTAL</b>	<b>50%</b>	