



**SCHOOL OF ENGINEERING**  
**SISTER NIVEDITA UNIVERSITY**

**DIPLOMA IN MECHANICAL ENGINEERING**

**COURSE DURATION – 3 YEARS**

**6 SEMESTERS**

Definition of Category	Code	Credit
Basic Science	BS	21
Engineering Science	ES	30
Professional Core	PC	73
Professional Elective (Discipline Specific)	PE	6
Humanities & Social Science including Management	HSM	12
Project Work / Seminar / Internship / Entrepreneurship	PSE	12
Mandatory / University Specified (Environmental Sc. / Induction Training / Indian Constitution / Foreign language)	MUS	8
<b>Total</b>		<b>162</b>

COURSE CODE	SEMESTER 1		SEMESTER 2		SEMESTER 3		SEMESTER 4		SEMESTER 5		SEMESTER 6	
	NO.	CREDIT										
BS	3	11	3	10	-	-	-	-	-	-	-	-
ES	4	12	4	10	1	4	1	4	-	-	-	-
PC	-	-	-	-	5	19	4	16	4	16	5	19
PE	-	-	-	-	-	-	-	-	1	4	1	3
HSM	1	3	2	6	-	-	1	3-	-	-	-	-
PSE	-	-	-	-	-	-	-	-	1	5	2	7
MUS	1	2	1	2	1	2	1	2	-	-	-	-

**SEMESTER 1**

S. No.	Subject	Course Code	Credit Theory	Credit Practical	Credit Tutorial	Total Credit
1	Communication Skill	HSM	3	-	-	3
2	Basic Physics	BS	2	1	-	3
3	Basic Chemistry	BS	2	1	-	3
4	Mathematics	BS	4	-	1	5
5	Engineering Mechanics	ES	3	-	1	4
6	Technical Drawing	ES	2	2	-	4
7	Computer Fundamentals	ES	-	2	-	2
8	Workshop Practice -I	ES	-	2	-	2
9	Foreign Language	MUS	2	-	-	2
	<b>Total</b>					<b>28</b>

## SEMESTER 2

S. No.	Subject	Course Code	Credit Theory	Credit Practical	Credit Tutorial	Total Credit
1	Business Economics & Accountancy	HSM	3	-	-	3
2	Applied Physics	BS	2	1	-	3
3	Applied Chemistry	BS	2	1	-	3
4	Engineering Mathematics	BS	4	-	-	4
5	Strength of Materials	ES	3	-	-	3
6	Electrical Technology	ES	2	-	-	2
7	Engineering Drawing	ES	1	2	-	3
8	Workshop Practice -II	ES	-	2	-	2
9	Development of Life Skill -I	HSM	3	-	-	3
10	Foreign Language	MUS	2	-	-	2
	<b>Total</b>					<b>28</b>

## SEMESTER 3

S. No.	Subject	Course Code	Credit Theory	Credit Practical	Credit Tutorial	Total Credit
1	Advanced Strength of Materials	PC	2	1	-	3
2	Fundamentals of Electronics	ES	3	1	-	4
3	Manufacturing Process I	PC	3	2	-	5
4	Mechanical Engineering Drawing	PC	3	2	-	5
5	Mechanical Engineering Materials	PC	3	-	-	3
6	Thermal Engineering - I	PC	2	1	-	3
7	Foreign Language	MUS	2	-	-	2
	<b>Total</b>					<b>25</b>

## SEMESTER 4

S. No.	Subject	Course Code	Credit Theory	Credit Practical	Credit Tutorial	Total Credit
1	Thermal Engineering - II	PC	3	1	-	4
2	Manufacturing Process II	PC	3	2	-	5
3	Elements of Electrical Engineering	ES	3	1	-	4
4	Engineering Metrology	PC	2	1	-	3
5	Theory of Machines and Mechanism	PC	3	1	-	4
6	Development of Life Skill -II	HSM	3	-	-	3
7	Foreign Language	MUS	2	-	-	2
	<b>Total</b>					<b>25</b>

**SEMESTER 5**

S. No.	Subject	Course Code	Credit Theory	Credit Practical	Credit Tutorial	Total Credit
1	Fluid Mechanics & Machinery	PC	3	1	-	4
2	Advanced Manufacturing Process	PC	2	2	-	4
3	Measurement & Control	ES	2	1	-	3
4	Power Engineering	PC	3	1	-	4
5	Tool Engineering	PC	3	1	-	4
6	Automobile Engineering	PE	3	1	-	4
	Power Plant Engineering				-	
7	Industrial Project & Entrepreneurship Development	PSE	-	5	-	5
<b>Total</b>						<b>28</b>

**SEMESTER 6**

S. No.	Subject	Course Code	Credit Theory	Credit Practical	Credit Tutorial	Total Credit
1	Design of Machine Elements	PC	4	1	-	5
2	Industrial Management	PC	3	-	-	3
3	Fluid Power	PC	3	1	-	4
4	Production Management	PC	3	-	-	3
5	Alternate Energy Sources and Management	PC	3	1	-	4
5	Refrigeration and Air Conditioning	PE	2	1		3
6	CAD-CAM and Automation					
7	Industrial Project	PSE	-	-	4	4
8	General Viva-Voce	PSE	-	3	-	3
<b>Total</b>						<b>29</b>