## Department of Production Engineering GURU NANAK DEV ENGINEERING COLLEGE, LUDHIANA MASTER OF TECHNOLOGY (PRODUCTION ENGINEERING) 2019

## Syllabus Scheme for Mast of Technology Production Engine ing 2019 onwards Total Credits: 19+18+16+16=69

1st Semeste	-1	ŕ
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Sr. No.	Code	Course Type			Feachi Schem		Credits	Type of	Marks		
NO.		and type	Course Name	1.	T	p		Subject	int	Ext.	Total
1	MPE-101	Core Course	Advanced Metal Forming	3	0	0	3	Theory	50	100	150
2	MPE-102	Core Course	Advanced Metal Casting	3	0	0	3	Theory	50	100	150
	MPE-XXX		Program Elective I (Any one)		2 1						
3	MPE-105	Program	Entrepreneurship		3 0	0	3	Theory	50	100	150
	MPE-106	Elective	Jig Fixture and Press Design	.3				*******	15.55	(358)	250
	MPE-107		Advanced Plant Layout Design								
	MPE-XXX		Program Elective II (Any one)								
4	MPE-108		Product Design and Development	3	Theory	50	100	150			
*	MPE-109	Elective	Additive Manufacturing Process and Applications	3	0	0	3	Theory	0.0.	3.00	11.55-511.5
	MPE-110		Flexible Manufacturing Systems								
5	LMPE-101	Core Course	Advanced Manufacturing processes Laboratory	0	0	4	2	Practical	50	50	100
6	LMPE-102	Core Course	Advanced Machining and Casting processes Laboratory	.0	0	4	2	Practical	50	50	100
7	MRM-101	Core Course	Research Methodology and IPR	3	0	0.	3	Theory	50	100	150
8	MAC-105	Audit Course 1	Constitution of India	.2	0	0	.0	Theory	50	-	50
	A STATE OF THE PARTY OF THE PAR		Total	17	0	12	19		40	600	1000

2nd Semester

Sr.	Code	Course Type	Course Name		Teaching Scheme		Credits	Type of	Marks		
No.	Code	Course type	Comservance	L.	T	P		Subject	Int.	Ext.	Total
1	MPE-103	Core Course	Advanced Welding Processes	3	0		-3	Theory	50	100	150
2	MPE-104	Core Course	Advanced Metal Cutting	3	0		3	Theory	50	100	150
	MPE-XXX		Program Elective III (Any one)		3 0						
20	MPE-111	Program	Production and Inventory Control	3			3	Theory	50	100	150
3	MPE-112	Elective	Quality Assurance		1			1,000.7		200	100
	MPE-113		Advanced Industrial Tribology							-	
_	MPE-XXX		Program Elective IV (Any one)								
	MPE-114	Program	Industrial Robotic Design	3	0		3	Theory	50	100	150
4	MPE-115	Elective	Non-Conventional Machining Process				1 350			200	
	MPE-116		Computer Aided Design							1	-
5	LMPE-103	Core Course	Advanced Welding Process Laboratory	0	0	4	2	Practical	50	50	100
6	LMPE-104	Core Course	Mechanical and Morphological characterization Laboratory	0	0	4	2	Practical	50	50	100
7	LMPPE-101	Core Course	Project	0	0	4	2	Practical	50	50	100
8	MAC-106	Audit Course 2	Pedagogy Studies	2	0	0	0	Theory	50		50
	J PING-100	Trum Course &	Total	14	0	12	18		40	550	950

3rd Semeste	r	
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Sr. No.	Code	Course Type	Course Name	Teaching Scheme			Credits	Type of	Marks		
		1,110		1	T	P	Cicara	Subject	Int	Ext	Total
	MPE-XXX		Program Elective V (Any one)	-14	0	-					
1	MPE-117	Program	Operations Management			1 2	20	73	50	100	150
•	MEP-118	Elective	Materials Management	3		0	3	Theory	30	100	0900
	MPE-119	90,000,000	Advance Operations Research								
2	MOZZ-XXX	Open Elective	Open Elective 1	3	0	0	3	Theory	50	100	150
3	MPTPE-101	Pre-thesis	Formulation of research problem	0	0	20	10	Practical	10	100	200
			Total	6	0	20	16		20	300	500

## 4th Semester

Sr. No.	Code	Course Type	urse Type Course Name	Teaching Scheme			Credits	Type of	Marks		
No.		STEP CONTROL FOR SEC.		I.	T	P		Subject	Int.	Ext.	Total
1	MTPE-101	Thesis	Thesis work	Ð	0	32	16	Practical	10	200	300
			Total	0	0	32	16		10	200	300

## List of Electives

Audit course 1 & 2	List of Open Elective	Open Elective offered by Production Engineering
MAC-101 English for Research Paper Writing MAC-102 Disaster Management MAC-103 Sanskrit for Technical Knowledge MAC-104 Value Education MAC-105 Constitution of India MAC-106 Pedagogy Studies MAC-107 Stress Management by Yoga MAC-108 Personality Development through Life Enlightenment Skills.	Business Analytics     Industrial Safety     Operations Research     Cost Management of Engineering Projects     Composite Materials     Waste to Energy	MPE-120 Industrial Safety MPE-121 Operations Research MPE-122 Composite Materials

Note: Eight questions out of entire syllabus and well-distributed are to be set; students are required to attempt 5 questions.