# **Choice Based Credit System SCHEME** M. Tech, Production Engineering



Department of Mechanical Engineering UIET

Sant Baba Bhag Singh University

# Course Scheme, M.Tech Mechanical Engineering **General Course Structure**

Course Code	e and Definition
Course Code	Definition
PC	Program Core
PE	Program Elective
OE	Open Elective
Audit	Audit Courses

Sant Baba Bhag Singh University
Vill-Khiala Jalandhar 4

#### SEMESTER I

### Scheme for M. Tech. 1st Year

#### I. Theory Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1			Advanced Computer	4:0:0	4:0:0	4	4
	PC	ME 501-19	Aided Design &				
			Manufacturing	4 17 74		4	4
2	D.C.	) (F) (500 10	Jig, Fixtures & Die	4:0:0	4:0:0	4	4
	PC	ME503-19	Design		<b>一种</b>		4
3	PE	The state of the s	Professional Elective-I	4:0:0	4:0:0	4	
4	- 300	A STATE OF THE PARTY OF THE PAR	Professional Elective	4:0:0	4:0:0	4	4
	PE		-II				-
5	100		Research Methodology	3:0:0	3:0:0	3	3
3		MAT524-19	and IPR	1		4 1	
6	Audit**		FAIR BAR	2:0:0	2:0:0	2	0

#### Practical Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PC lab	ME505-19	Computer Aided	0:0:4	0:0:4	4	2
			Engineering Lab				

## III. Professional Elective-I

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S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME507-19	Cutting Tool Design	4:0:0	4:0:0	4	4
2	PE	ME509-11	Industrial Tribology	4:0:0	4:0:0	4	4
3	PE	ME511-19	Machine Tool Design	4:0:0	4:0:0	4	4
4	PE	ME513-19	Total Quality Control	4:0:0	4:0:0	4	4

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#### IV. Professional Elective-II

S. No.	Type	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME515-19	Mechatronic	4:0:0	4:0:0	4	4
2	PE	ME517-19	Simulation of Industrial Systems	4:0:0	4:0:0	4	4
3	PE	ME519-19	Methods of Engineering & Ergonomics	4:0:0	4:0:0	4	4
4.	PE	ME521-19	Flexible Manufacturing System	4:0:0	4:0:0	4	4

Total Contact Hours: 25 Total Credit Hours: 21

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#### SEMESTER II

Scheme for M. Tech. 2nd Semester

I. Theory Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PC	ME502-19	Modern Welding and Casting Technique	4:0:0	4:0:0	4	4
2	PC	ME504-19	Metal Forming	4:0:0	4:0:0	4	4
3	PE	All Parts	Professional Elective-III	4:0:0	4:0:0	4	4
4	PE		Professional Elective-IV	4:0:0	4:0:0	4	4
5	Audit**	Train a	S called the transfer of	2:0:0	2:0:0	2	0

II Practical Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	Ele	ME506-19	Mini project with seminar	0:0:4	0:0:2	4	2
2	E for	ME508-19	Modern Welding and Casting Process	0:0:4	0:0:2	4	2

III. Professional Elective-III

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME510-19	Metal Cutting	4:0:0	4:0:0	4	4
2	PE	ME512-19	Industrial Automation	4:0:0	4:0:0	4	4
3	PE	ME514-19	Metrology and industrial Inspection	4:0:0	4:0:0	4	4
4	PE	ME516-19	Hybrid Manufacturing	4:0:0	4:0:0	4	4
5	PE	ME518-19	Entrepreneurship	4:0:0	4:0:0	4	4

IV. Professional Elective-IV

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME520-19	Product Design& Development	4:0:0	4:0:0	4	4
2	PE	ME522-19	Supply Chain Management	4:0:0	4:0:0	4	4
3	PE	ME524-19	Statistics & Reliability Engineering	4:0:0	4:0:0	4	4
4	PE	ME 526-19	Production & Operation Management	4:0:0	4:0:0	4	4

Total contact Hours :26 Total Credit Hours :20

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## SEMESTER III

Scheme for M. Tech. 3rd Semester

Theory Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Credit Hours
140.			1 Election V		4:0:0	4	4
1	PE		Professional Elective-V	4:0:0	4:0:0	4	4
	OE		Open Elective -I	4.0.0			

II. Practical Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Credit Hours	
	PC lab	ME601-19	Dissertation-I	0.0.20	Tel 12 W.	1 1 THE		

# III. Professional Elective-V

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
	B. Brook	A RUTH	Materials Technology	4:0:0	4:0:0	4	4
1	PE	ME603	Materials Technology	4:0:0	4:0:0	4	4
2	PE	ME605	Non Conventional Machining	1.0.0	661		
			Process	4:0:0	4:0:0	4	4
3	PE	ME607	Computer Aided Process Planning	1.0.0		選得	
	DE	ME609	Lean Manufacturing	4:0:0	4:0:0	4	4
4	PE	MEOUS	Duni	THE RESERVE AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF TH			

Total Contact Hours: 28 Total Credit Hours: 18

# **List of Open Electives**

S. No	Code	Course Title	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	CE611-19	Introduction to Rural Technology and Community Development	4:0:0	4:0:0	4	4
2	ME 611-19	Industrial Safety Engineering	4:0:0	4:0:0	4	4
3	ME 613-19	Composite Materials	4:0:0	4:0:0	4	4
4	ME615-19	Renewable Energy Resources	4:0:0	4:0:0	4	4
5	EE611-19	Waste to Energy Technology	4:0:0	4:0:0	4	4
6	COM223- 19-	Business Analytics	4:0:0	4:0:0	4	4
7	CSE611-19	Introduction to Internet of things	4:0:0	4:0:0	4	4
8	CSE613-19	Software Project Planning and Management	4:0:0	4:0:0	4	4

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#### SEMESTER IV

Scheme for M. Tech. 4th Semester

#### I. Theory Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	Thesis	ME602-19	Dissertation-II	0:0:32	0:0:16	32	16
			LAR	-			

Total Contact Hours: 32 Total Credit Hours: 16

Audit courses:

COURSE CODE: CSEA501-19. English for Research Paper Writing

A502-19. Disaster Management

A504-19. Sanskrit for Technical Knowledge

A504-19. Value Education

A505-19. Constitution of India

A506-19. Pedagogy Studies

A507-19. Stress Management by Yoga

A508-19. Personality Development through Life Enlightenment Skills

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## PROGRAM OUTCOMES OF M.TECH (ME)

- 1. Apply advanced level Knowledge, techniques, skills and modern tools of Production Engineering
- 2. Develop management control System to Provide the right kind of assistance in financial planning ,cost analysis, and production Planning for the physical distribution of goods and services.
- 3. Function on multidisciplinary teams ,working cooperatively, respectfully and responsible as a member of a team.
- 4. Identify, formulate, and solve industrial Productivity related problems using advanced level computing techniques
- 5. Communicate effectively by oral, written, computing and graphical means.
- 6. Understand the impact of production engineering solution in a global ,economic environment and societal context.
- 7. Recognize the need to engage in lifelong learning through continuing education and research
- 8. Demonstrate knowledge of contemporary issues in the area of Production engineering
- 9. Manage projects related to production engineering in multidisciplinary environment.
- 10. To develop an ability to work as an effective member or leader of engineering team to achieve goals.
- 11. To develop an ability to recognize the need for, and have the preparation and ability to engage in independent and life-long learning.
- 12. . To demonstrate independent learning and scholarship by adopting research pursuits

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#### **COURSE SCHEME SUMMARY**

Sem	L	Т	Р	Contact hrs/wk	Credits	PC	PE	OE	Add on/ Audit Courses	Project/ Trg/Semi nar/ Term Paper
1	21	-	4	25	21	10	11			-
2	18	-	8	26	18	10	8		-	2(mini project with seminar)
3	8	-	20	28	17	18	4	4	-	Dissertatio n-I- 10 Training (through MOOC Certificati on)
4				32	16	-	-		-	Dissertati on-16
Total	47	0	32	111	75	36	20	4	-	28

# **Choice Based Credit System** SCHEME M. Tech, Production Engineering



Department of Mechanical Engineering UIET

Sant Baba Bhag Singh University

2020

# Course Scheme, M.Tech Mechanical Engineering **General Course Structure**

Course Code	e and Definition
Course Code	Definition
PC	Program Core
PE	Program Elective
OE	Open Elective
Audit	Audit Courses

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#### SEMESTER I

Scheme for M. Tech. 1st Year

#### I. Theory Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PC	ME 501	Advanced Computer Aided Design & Manufacturing	4:0:0	4:0:0	4	4
2	PC	ME503	Jig, Fixtures & Die Design	4:0:0	4:0:0	4	4
3	PE	1/10/19	Professional Elective-I	4:0:0	4:0:0	4	4
4	PE	PROM	Professional Elective -II	4:0:0	4:0:0	4	4
5	MA	MAT524	Research Methodology and IPR	3:0:0	3:0:0	3	3
6	Audit**	B 20 9 9	THE RESIDENCE	2:0:0	2:0:0	2	0

### **Practical Subjects**

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PC lab	ME505	Computer Aided Engineering Lab	0:0:4	0:0:4	4	2

## III. Professional Elective-I

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME507	Cutting Tool Design	4:0:0	4:0:0	4	4
2	PE	ME509-11	Industrial Tribology	4:0:0	4:0:0	4	4
3	PE	ME511	Machine Tool Design	4:0:0	4:0:0	4	4
4	PE	ME513	Total Quality Control	4:0:0	4:0:0	4	4

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#### IV. Professional Elective-II

S. No.	Type	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME515	Mechatronic	4:0:0	4:0:0	4	4
2	PE	ME517	Simulation of Industrial Systems	4:0:0	4:0:0	4	4
3	PE	ME519	Methods of Engineering & Ergonomics	4:0:0	4:0:0	4	4
4.	PE	ME521	Flexible Manufacturing System	4:0:0	4:0:0	4	4

Total Contact Hours: 25 Total Credit Hours: 21

#### SEMESTER II

Scheme for M. Tech. 2nd Semester

I. Theory Subjects

s. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PC	ME502	Modern Welding and Casting Technique	4:0:0	4:0:0	4	4
2	PC	ME504	Metal Forming	4:0:0	4:0:0	4	4
3	PE	1	Professional Elective-III	4:0:0	4:0:0	4	4
4	PE	1000	Professional Elective-IV	4:0:0	4:0:0	4	4
5	Audit**	100 mm		2:0:0	2:0:0	2	0

**II Practical Subjects** 

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	打印	ME506	Mini project with seminar	0:0:4	0:0:2	4	2
2		ME508	Modern Welding and Casting Process	0:0:4	0:0:2	4	2

III. Professional Elective-III

S. No.	Type	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME510	Metal Cutting	4:0:0	4:0:0	4	4
2	PE	ME512	Industrial Automation	4:0:0	4:0:0	4	4
3	PE	ME514	Metrology and industrial Inspection	4:0:0	4:0:0	4	4
4	PE	ME516	Hybrid Manufacturing	4:0:0	4:0:0	4	4
5	PE	ME518	Entrepreneurship	4:0:0	4:0:0	4	4

IV. Professional Elective-IV

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME520	Product Design& Development	4:0:0	4:0:0	4	4
2	PE	ME522	Supply Chain Management	4:0:0	4:0:0	4	4
3	PE	ME524	Statistics & Reliability Engineering	4:0:0	4:0:0	4	4
4	PE	ME 526	Production & Operation Management	4:0:0	4:0:0	4	4

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Total contact Hours :26

Total Credit Hours :26
Sant Baba Bhag Singh University Vill-Khiala, Jalandhar-144030

#### SEMESTER III

Scheme for M. Tech. 3rd Semester

#### I. **Theory Subjects**

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE		Professional Elective-V	4:0:0	4:0:0	4	4
	OE	1	Open Elective -I	4:0:0	4:0:0	4	4

#### II. Practical Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PC lab	ME601	Dissertation-I	0:0:20	0:0:10	20	10

#### III. Professional Elective-V

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME603	Materials Technology	4:0:0	4:0:0	4	4
2	PE	ME605	Non Conventional Machining Process	4:0:0	4:0:0	4	4
3	PE	ME607	Computer Aided Process Planning	4:0:0	4:0:0	4	4
4	PE	ME609	Lean Manufacturing	4:0:0	4:0:0	4	4

Total Contact Hours: 28 Total Credit Hours: 18

# **List of Open Electives**

S. No	Code	Course Title	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	CE611	Introduction to Rural Technology and Community Developmen	4:0:0	4:0:0	4	4
2	ME 611	Industrial Safety Engineering	4:0:0	4:0:0	4	4
3	ME 613	Composite Materials	4:0:0	4:0:0	4	4
4	ME615	Quality Engineering	4:0:0	4:0:0	4	4
5	EE611	Waste to Energy Technology	4:0:0	4:0:0	4	4
6	COM223-	Business Analytics	4:0:0	4:0:0	4	4
7	CSE611	Introduction to Internet of things	4:0:0	4:0:0	4	4
8	CSE613	Software Project Planning and Management	4:0:0	4:0:0	4	4

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#### SEMESTER IV

Scheme for M. Tech. 4th Semester

#### I. Theory Subjects

S. No.	Type	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	Thesis	ME602	Dissertation-II	0:0:32	0:0:16	32	16
		A. C.	45.00		33%		

Total Contact Hours: 32 Total Credit Hours: 16

\*\* \*\* Audit courses:

COURSE CODE: ENGO01: English for Research Paper Writing

EVS501: Disaster Management

CSE001 . Value Education

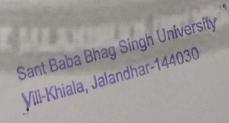
LAW001. Constitution of India

EDU001. Pedagogy Studies

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## PROGRAM OUTCOMES OF M.TECH (ME)

- 1. Apply advanced level Knowledge, techniques, skills and modern tools of Production Engineering
- 2. Develop management control System to Provide the right kind of assistance in financial planning, cost analysis, and production Planning for the physical distribution of goods and services.
- 3. Function on multidisciplinary teams ,working cooperatively, respectfully and responsible as a member of a team.
- 4. Identify ,formulate, and solve industrial Productivity related problems using advanced level computing techniques
- 5. Communicate effectively by oral, written, computing and graphical means.
- 6. Understand the impact of production engineering solution in a global ,economic ,environment and societal context.
- 7. Recognize the need to engage in lifelong learning through continuing education and research
- 8. Demonstrate knowledge of contemporary issues in the area of Production engineering
- 9. Manage projects related to production engineering in multidisciplinary environment.
- 10. To develop an ability to work as an effective member or leader of engineering team to achieve goals.
- 11. To develop an ability to recognize the need for, and have the preparation and ability to engage in independent and life-long learning.
- 12. . To demonstrate independent learning and scholarship by adopting research pursuits



## COURSE SCHEME SUMMARY

Sem	L	Т	P	Contact hrs/wk	Credits	PC	PE	OE	Add on/ Audit Courses	Project/ Trg/Semi nar/ Term Paper
1	21	-	4	25	21	10	11			-
2	18	-	8	26	20	10	8			2(mini project with seminar)
3	8	-	20	28	18	-	4	4		Dissertatio n-I- 10 Training (through MOOC Certificati on)
					16				-	Dissertati on-16
4				32	16				_	28
Total	47	0	32	111	75	20	23	4	18 18	

**Choice Based Credit System** M. Tech, Production Engineering Program Code: PG021



Department of Mechanical Engineering UIET Sant Baba Bhag Singh University 2021

# Course Scheme, M.Tech Mechanical Engineering **General Course Structure**

Course Code	e and Definition
Course Code	Definition
PC	Program Core
PE	Program Elective
OE	Open Elective
Audit	Audit Courses

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#### SEMESTER I

#### Scheme for M. Tech. 1st Year

#### I. Theory Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PC	ME 501	Advanced Computer Aided Design & Manufacturing	4:0:0	4:0:0	4	4
2	PC	ME503	Jig, Fixtures & Die Design	4:0:0	4:0:0	4	4
3	PE	Part -	Professional Elective-I	4:0:0	4:0:0	4	4
4	PE	19 19	Professional Elective-II	4:0:0	4:0:0	4	4
5	PE	MAT524	Research Methodology and IPR	3:0:0	3:0:0	3	3
6	Audit Co	urse	A PROPERTY AND ADDRESS OF THE PARTY ADDRESS OF THE PARTY ADDRESS OF THE PARTY AND ADDRESS OF THE PARTY ADDRESS	2:0:0	2:0:0	2	0

#### Practical Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PC lab	ME505	Computer Aided Engineering Lab	0:0:4	0:0:4	4	2

#### III. Professional Elective-I

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
L	PE	ME507	Cutting Tool Design	4:0:0	4:0:0	4	4
2	PE	ME509-11	Industrial Tribology	4:0:0	4:0:0	4	4
3	PE	ME511	Machine Tool Design	4:0:0	4:0:0	4	4
4	PE	ME513	Total Quality Control	4:0:0	4:0:0	4	4

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#### IV. Professional Elective-II

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME515	Mechatronic	4:0:0	4:0:0	4	4
2	PE	ME517	Simulation of Industrial Systems	4:0:0	4:0:0	4	4
3	PE	ME519	Methods of Engineering & Ergonomics	4:0:0	4:0:0	4	4
4.	PE	ME521	Flexible Manufacturing System	4:0:0	4:0:0	4	4

Total Contact Hours: 25 Total Credit Hours: 21

Sant Baba Bhag Singh University Vill-Khiala, Jalandhar-144030

#### SEMESTER II

Scheme for M. Tech. 2nd Semester

S. No.	Type	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1			Modern Welding and	4:0:0	4:0:0	4	-
	PC	ME502	Casting Technique	***	4:0:0	4	4
2	PC	ME504	Metal Forming	4:0:0	4:0.0		4
		IVILIO	Professional Elective-III	4:0:0	4:0:0	4	4
3	PE	A Para		4:0:0	4:0:0	4	4
4	PE	A COLUMN	Professional Elective-IV	2:0:0	2:0:0	2	0
5	Audit Cou	irse	4	2.0.0	A STREET		

II Practical Subjects

S. No.	Туре	Subject Code	Subject Name		Credits (L:T:P)	Contact Hours	Credit Hours
1		ME506	Mini project with seminar	0:0:4	0:0:2	4	2
2	PC	ME508	Modern Welding and Casting Process	0:0:4	0:0:2	4	2

III. Professional Elective-III

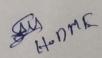
S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	(L:T:P)	Contact Hours	Credit Hours
		710	Metal Cutting	4:0:0	4:0:0	4	4
1	PE	ME510	Industrial Automation	4:0:0	4:0:0	4	4
2	PE PE	ME512 ME514	Metrology and industrial	4:0:0	4:0:0	4	4
3	The same	ME516	Inspection Hybrid Manufacturing	4:0:0	4:0:0	4	4
5	PE PE	ME518	Entrepreneurship	4:0:0	4:0:0	4	4

IV. Professional Elective-IV

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	PE	ME520	Product Design& Development	4:0:0	4:0:0	4	4
2	PE	ME522	Supply Chain Management	4:0:0	4:0:0	4	4
3	PE	ME524	Statistics & Reliability Engineering	4:0:0	4:0:0	4	4
4	PE	ME 526	Production & Operation Management	4:0:0	4:0:0	4	4

Total Credit Hours :26 Total Credit Hours :20

Sant Baba Bhag Singh University Vill-Khiala, Jalandhar-144030



#### SEMESTER III

Scheme for M. Tech. 3rd Semester

**Theory Subjects** 

S. No.	Type	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Credit Hours
1	PE		Professional Elective-V	4:0:0	4:0:0	4	4
1	OE	- 10	Open Elective -I	4:0:0	4:0:0	4	10
3	PC	ME601	Dissertation-I	0:0:20	0:0:10	20	10

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# III. Professional Elective-V

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Contact Hours	Credit Hours
	23 B 14 2		No de Cala Tachnology	4:0:0	4:0:0	4	4
1	PE	ME603	Materials Technology	4:0:0	4:0:0	4	4
2	PE	- mcos	Non Conventional Machining	1.0.0	THE PARTY	中世界日	
	四 图 平 产	ME605	Process		1.0.0	1	4
	DE		Computer Aided Process	4:0:0	4:0:0		
3	PE	ME607	Planning	10 15			
1	The Parties	THE PERSON NAMED IN	Lean Manufacturing	4:0:0	4:0:0	4	4
4	PE	ME609	Lean Manufacturing	100	THE RESERVE	THE COL	

Total Contact Hours: 28 Total Credit Hours: 18

## **List of Open Electives**

S. No	Code	Course Title	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
1	CE611	Introduction to Rural Technology and Community Developmen	4:0:0	4:0:0	4	4
2	ME 611	Industrial Safety Engineering	4:0:0	4:0:0	4	4
3	ME 613	Composite Materials	4:0:0	4:0:0	4	4
4	ME615	Quality Engineering	4:0:0	4:0:0	4	4
5	EE611	Waste to Energy Technology	4:0:0	4:0:0	4	4
6	COM223-	Business Analytics	4:0:0	4:0:0	4	4
7	CSE611	Introduction to Internet of things	4:0:0	4:0:0	4	4
8	CSE613	Software Project Planning and Management	4:0:0	4:0:0	4	4

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#### SEMESTER IV

Scheme for M. Tech. 4th Semester

## I. Theory Subjects

S. No.	Туре	Subject Code	Subject Name	Contact Hours (L:T:P)	Credits (L:T:P)	Total Contact Hours	Total Credit Hours
		ME602	Dissertation-II	32	0:0:16	32	16
			RR	i man	deterv		

4BBSU

Minimum 4 hour weekly discussion with the supervisor is mandatory

Total Credit Hours: 16

Audit courses:

ENG001: English for Research Paper Writing COURSE CODE:

EVS004: Disaster Management

LAW006: Constitution of India

EDU002: Personality Development through Life Enlightenment Skills

EDU003. Pedagogy Studies

EDU004: Social and Value Education

EDU005: Stress Management for yoga

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## COURSE SCHEME SUMMARY

Sem	L	Т	P	Contact hrs/wk	Credits	PC	PE	OE	Audit Course s	Project/ Trg/Semin ar/ Term Paper
1	21	-	4	25	21	10	11		-	-
2	18		8	26	20	10	8		-	2 (mini project with seminar)
3	8	-	20	28	18	-	4	4		Dissertation-I
4				32	16	-	-		-	Dissertation -II -16
Total	47	0	32	111	75	20	23	4		28

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