

MVN University, Palwal (Haryana)

Scheme of Studies & Syllabus Jan to June 2016 (A-scheme)

Four year Regular Course: B.Tech. (ME)

Semester : IV

S. No	Course Title	Course Code	Teaching Schedule			Total Hours	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Fluid Machine	MEL-202-A	3	1	0	4	4	40	60	100
2	Machine Design-I	MEL-204-A	3	2	0	5	5	40	60	100
3	Kinematics of Machine	MEL-206-A	3	1	0	4	4	40	60	100
4	Strength of Material-I	MEL-214-A	3	1	0	4	4	40	60	100
5	Production Planning and Control	MEL- 216-A	3	0	0	3	3	40	60	100
6	Principal of Management.	MSL -212-A	3	0	0	3	3	40	60	100
7	VAC-I/Professional Communication - III	MEV-200-A/AHP-200-A	0	0	2	2	1	20	30	50
8	Fluid Machine Lab	MEP-202-A	0	0	2	2	1	20	30	50
9	Kinematics of Machine Lab	MEP-206-A	0	0	2	2	1	20	30	50
10	Strength of Material-I Lab	MEP-214-A	0	0	2	2	1	20	30	50
Total			18	5	8	31	27	320	480	800

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Scheme of Studies & Syllabus Jan to June 2016 (A-scheme)

Four year Regular Course: B.Tech. (ME)

Semester : VI

S.No	Course Title	Course Code	Teaching Schedule			Total Hours	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Internal Combustion Engine	MEL 302-A	3	1	0	4	4	40	60	100
2	Manufacturing Technology-II	MEL 304-A	3	0	0	3	3	40	60	100
3	Heat Transfer	MEL 306-A	3	1	0	4	4	40	60	100
4	Steam Power Generation	MEL 308-A	3	1	0	4	4	40	60	100
5	Metrology & Control	MEL 310-A	3	1	0	4	4	40	60	100
6	CNC Machine and Automation	MEL 312-A	3	1	0	4	4	40	60	100
7	VAC –III	MEV 302-A	0	0	2	2	0	20	30	50
8	Internal Combustion Engine Lab	MEP 302-A	0	0	2	2	1	20	30	50
9	Manufacturing Technology Lab-II	MEP 304-A	0	0	2	2	1	20	30	50
10	Heat Transfer Lab	MEP 306-A	0	0	2	2	1	20	30	50
11	Steam Power Generation Lab	MEP 308-A	0	0	2	2	1	20	30	50
Total			18	5	10	33	27	340	510	850

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Scheme of Studies & Syllabus Jan to June 2016

Four year Regular Course: B.Tech. (ME)

Semester : VIII

S.No	Course Code	Course Title	Teaching Schedule			Total Hours	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	MEL 402	Operations Research	3	1	0	4	4			
2	MED 420	Major Project	0	0	12	12	6			
3	MEC 422	Independent Seminar	0	0	2	2	1			
4		Elective 4*	3	1	0	4	4			
5		Elective 5*	3	1	0	4	4			
6	MEV 402	VAC-III	0	0	2	2	0			
Total			12	4	18	34	24			

MEL-414 Total Quality Management
MEL-408 Supply Chain Management

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Scheme of Studies & Syllabus 2016-18-(16-scheme)

Two year Regular Course: M.Tech. (ME) Production Technology

Semester : I

S. No	Course Title	Paper Code	Teaching Schedule			Total	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Advanced Computer Aided Design and Manufacturing	MEL-551-16	4	0	0	4	4	40	60	100
2	Advanced Metal Cutting	MEL -553-16	4	0	0	4	4	40	60	100
3	Advanced Metal Forming	MEL- 555-16	4	0	0	4	4	40	60	100
4	Advanced Metal Casting	MEL -557-16	4	0	0	4	4	40	60	100
5	Elective-I	*****	3	0	0	3	3	40	60	100
6	Advanced Computer Aided Design and Manufacturing Lab	MEP- 551-16	0	0	2	2	1	20	30	50
7	Advanced Metal Cutting Lab	MEP- 553-16	0	0	2	2	1	20	30	50
	Total		19	0	4	23	21	240	360	600

***6 Elective-I**

MEL -559-16 : Advanced Welding Technology

MEL -561-16 : Robotics Technology

MEL -563-16 : Industrial Tribology

MEL - 565-16 : Relability Engineering

MEL- 567-16 : Diagnostic Maintenance and Monitoring.

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Scheme of Studies & Syllabus 2016-18-(16-scheme)

Two year Regular Course: M.Tech. (ME) Production Technology

Semester : II

S. No	Course Title	Paper Code	Teaching Schedule			Total	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Non Conventional Machining Process	MEL 552-16	4	0	0	4	4	40	60	100
2	Jig, Fixtues & Die Design	MEL 554-16	4	0	0	4	4	40	60	100
3	Production, Planning & Control	MEL 556-16	4	0	0	4	4	40	60	100
4	Cutting Tool Design	MEL 558-16	4	0	0	4	4	40	60	100
5	Elective 2	*****	3	0	0	3	3	40	60	100
6	Non Conventional Machining Process Lab	MEP 552-16	0	0	2	2	1	20	30	50
7	Jig, Fixtues & Die Design Lab	MEP 554-16	0	0	2	2	1	20	30	50
	Total		19	0	4	23	21	240	360	600

***7 Elective-II**

MEL -560-16 : Advanced Operation Research

MEL -562-16 : Simulation of Industrial Systems

MEL -564-16 : Management of Production Systems

MEL -566-16 : Materials Technology

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Scheme of Studies & Syllabus 2016-18-(16-scheme)

Two year Regular Course: M.Tech. (ME) Production Technology

Semester : III

S. No	Course Title	Paper Code	Teaching Schedule			Total	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Management of Production Systems	MEL-517-16	4	0	0	4	4	40	60	100
2	Computer Aided Process Planning	MEL-519-16	4	0	0	4	4	40	60	100
3	Elective-III	*8	3	0	0	3	3	40	60	100
4	Seminar	MEC-521-16	0	0	2	2	1	40	*****	40
5	Dissertation Phase-I	MED-525-16	0	0	4	4	2	40	****	40
6	Computer Aided Process Planning	MEP-519-16	0	0	2	2	1	20	30	50
	Total		11	0	8	19	15	220	210	430

***8 Elective-III**

MEL- 527-16 :-Robotics and Industrial Automation

MEL -529-16 :-Metrology & Industrial Inspection

MEL -531-16 :-Methods Engineering and Ergonomics

MEL -533-16 :-Product Design And Development

MVN University, Palwal (Haryana)**Scheme of Studies & Syllabus 2016-18-(16-scheme)****Two year Regular Course: M.Tech. (ME) Production Technology****Semester : IV**

S. No	Course Title	Paper Code	Teaching Schedule			Total	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Dissertation	MED-522-16	0	0	20	20	10	120	180	300
	Total		0	0	20	20	10	120	180	300

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Scheme of Studies & Syllabus 2016-18-(16-scheme)

Two year Regular Course: M.Tech. (ME) Thermal Engineering

Semester : I

Sr. no	Course title	Paper code	Teaching schedule			Total hours	credit	Evaluation scheme		
			L	T	P			Internal	External	Total
1	Numerical techniques	AHL- 501-16	4	0	0	4	4	40	60	100
2	Advanced Fluid Mechanics	MEL -501-16	4	0	0	4	4	40	60	100
3	Advanced Heat Transfer – I (Conduction and Radiation)	MEL -503-16	4	0	0	4	4	40	60	100
4	Advanced Refrigeration Engineering	MEL- 505-16	4	0	0	4	4	40	60	100
5	Elective –I	*****	4	0	0	4	4	40	60	100
6	Advanced Heat Transfer – I Lab	MEP-503-16	0	0	2	2	1	20	30	50
7	Advanced Refrigeration Engineering Lab	MEP-505-16	0	0	2	2	1	20	30	50
	Total		20	0	4	24	22	240	360	600

Sr. no

Elective I

- | | | |
|---|------------------------------------|------------|
| 1 | Internal Combustion Engines | MEL 515-16 |
| 2 | Energy Conservation and Management | MEL 517-16 |
| 3 | Hydel Power and Wind Energy | MEL 519-16 |

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Scheme of Studies & Syllabus 2016-18-(16-scheme)

Two year Regular Course: M.Tech. (ME) Thermal Engineering

Semester : II

Sr. no	Course title	Paper code	Teaching schedule			Total hours	credit	Evaluation scheme		
			L	T	P			Internal	External	Total
1	Fuels, Combustion and Environment	MEL-502-16	4	0	0	4	4	40	60	100
2	Computational Fluid Dynamics	MEL-504-16	4	0	0	4	4	40	60	100
4	Thermal and Nuclear Power Plant	MEL-506-16	4	0	0	4	4	40	60	100
3	Energy Management	MEL-508-16	4	0	0	4	4	40	60	100
5	Elective-II	*****	4	0	0	4	4	40	60	100
6	Computational Fluid Dynamics Lab	MEP- 504-16	0	0	2	2	1	20	30	50
7	Thermal and Nuclear Power Plant Lab	MEP- 506-16	0	0	2	2	1	20	30	50
	Total		20	0	4	24	22	240	360	600

Sr. no **Elective-II**

1	Turbo-Machines	MEL 514-16
2	Thermal Measurements and Process controls	MEL 516-16
3	Jet Propulsion & Rocketry	MEL 518-16

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Scheme of Studies & Syllabus 2016-18-(16-scheme)

Two year Regular Course: M.Tech. (ME) Thermal Engineering

Semester : III

S.No	Course Title	Course Code	Teaching Schedule			Total Hours	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Convective Heat Transfer	MEL 507-16	4	0	0	4	4	40	60	100
2	Advanced Thermodynamics	MEL 509-16	4	0	0	4	4	40	60	100
3	Elective III	MEL 511-16	4	0	0	4	4	40	60	100
4	Seminar	MEC 511-16	0	0	2	2	1	50	*****	50
5	Dissertation Phase-I	MED 513-16	0	0	4	4	2	50	****	50
	Total		12	0	6	18	15	220	180	400

S.no. Elective III

1	Power Plant Practice and Control	MEL 526-16
2	SOLAR ENGINEERING	MEL 527-16
3	Boiling, Condensation and Two-phase Flow	MEL 528-16

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Scheme of Studies & Syllabus 2016-18-(16-scheme)

Two year Regular Course: M.Tech. (ME) Thermal Engineering

Semester : IV

S.No	Course Title	Course Code	Teaching Schedule			Total Hours	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Dissertation	MED 512-16	0	0	20	20	10	180	120	300
	Total		0	0	20	20	10	180	120	300

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Scheme of Studies & Syllabus --Jan to June 2016 (A-scheme)

Three year Regular Course: Diploma (ME)

Semester : IV

Sr. no	Course title	Paper code	Teaching schedule			Total hours	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Engineering Materials	MEL-032-A	3	0	0	3	3	40	60	100
2	Fluid Mechanics & Machines	MEL-034-A	3	1	0	4	4	40	60	100
3	Internal Combustion Engines	MEL-036-A	3	1	0	4	4	40	60	100
4	Manufacturing Technology-II	MEL-038-A	3	0	0	3	3	40	60	100
5	Strength of Materials	MEL-030-A	3	1	0	4	4	40	60	100
6	CAD Lab	MEP-042-A	0	0	2	2	1	20	30	50
7	Language Communication - IV	AHP- 032-A	1	0	2	3	NC	50	0	50
8	Basics Of EVS	AHL- 034-A	2	0	0	2	2	40	60	100
9	Engineering Materials Lab	MEP-032-A	0	0	2	2	1	20	30	50
10	Fluid Mechanics & Machines Lab	MEP-034-A	0	0	2	2	1	20	30	50
11	Internal Combustion Engines Lab	MEP-036-A	0	0	2	2	1	20	30	50
12	Manufacturing Technology-II Lab	MEP-038-A	0	0	2	2	1	20	30	50
13	Strength of Material Lab	MEP-030-A	0	0	2	2	1	20	30	50
	Total		18	3	14	35	26	410	540	950

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Scheme of Studies & Syllabus --Jan to June 2016 (A-scheme)

Three year Regular Course: Diploma (ME)

Semester : VI

S. No	Course Title	Paper Code	Teaching Schedule			Total	Credit	Evaluation Scheme		
			L	T	P			Internal	External	Total
1	Industrial Management	MEL-062-A	3	0	0	3	3	40	60	100
2	Automobile Engineering	MEL-066-A	3	0	0	3	3	40	60	100
3	Enterpreneurship Development and Management	MEL-068-A	3	0	0	3	3	40	60	100
4	Inspection Quality Control	MEL-074-A	3	0	0	3	3	40	60	100
5	Machine Design-II	MEL-064-A	4	0	0	4	4	40	60	100
6	Automobile Engineering Lab	MEP-066-A	0	0	2	2	1	20	30	50
7	Inspection Quality Control Lab	MEP-074-A	0	0	2	2	1	20	30	50
8	Major Project	MED-072-A	0	0	12	12	6	40	60	100
9	Language Communication - VI	AHP- 062-A	0	0	2	2	NC	50	0	50
	Total		16	0	18	34	24	330	420	750