

School of Mechanical Engineering, MVN UNIVERSITY PALWAL

SCHEME & SYLLABUS

B.Tech. for the batch 2013-14 & lateral entry 2014-15 & BEFORE

Semester - III

S.No	Course Title	Course Code	Teaching Schedule				Total Hours	Credit	Weightage (%)		
			L	T	P	CW*			MTE**	ETE	
1	Mathematics-III	AHL-211	3	1	0	4	4	10	40	50	
2	Engineering Mechanics	MEL 205	3	1	2	6	5	10+20	40	50+30	
3	Strength of Materials	MEL 207	3	1	2	6	5	10+20	40	50+30	
4	Machine Drawing	MEL 209	1	0	3	4	3	10	40	50	
5	Engineering Thermodynamics	MEL 211	3	1	0	4	4	10	40	50	
6	Managerial Economics	MSL 503	4	0	0	4	4	10	40	50	
7	Professional Communication	AHP 201	1	0	2	3	0	10	40	50	
<b>Total</b>			<b>18</b>	<b>4</b>	<b>9</b>	<b>31</b>	<b>25</b>				

SEMESTER – IV

S. No	Course Title	Course Code	Teaching Schedule			Total Hours	Credit	Weightage (%)		
			L	T	P			CW*	MT** E	ET E
1	Fluid Mechanics	MEL 202	3	1	2	6	5	CW*	MT** E	ET E
2	Machine Design-I	MEL 204	3	2	0	5	5	10+20	40	50+30
3	Kinematics of Machine	MEL 206	3	1	2	6	5	10	40	50
4	Material Science	MEL 208	3	0	2	5	4	10+20	40	50+30
5	Numerical Methods	AHL 208	3	1	2	6	5	10+20	40	50+30
6	Management Concept & Application	MSL 500	3	0	0	3	3	10+20	40	50+30
7	VAC-I	MEV 202	0	0	2	2	0	10	40	50
<b>Total</b>			<b>18</b>	<b>5</b>	<b>10</b>	<b>33</b>	<b>27</b>			

**Note:** Training period after fourth semester shall be of 4-6 weeks duration. However, viva-voce shall be conducted in the fifth semester.

Semester - V

S.No	Course Title	Course Code	Teaching Schedule			Total Hours	Credit	Weightage (%)		
			L	T	P			CW*	MT** E	ET E
1	Dynamics of Machines	MEL 301	3	1	2	6	5	10+20	40	50+30
2	Machine Design – II	MEL 303	3	1	0	4	4	10	40	50
3	Measurement and Instrumentation	MEL 305	3	0	2	5	4	10+20	40	50+30
4	Fluid Machines	MEL 307	3	1	2	6	5	10+21	41	50+31
5	Manufacturing Technology	MEL 309	3	1	2	6	5	10+20	40	50+30
6	Industrial Engineering	MEL 311	3	0	0	3	3	10	40	50
7	Practical Training – I	MET 325	0	0	2	2	0	20		30
8	VAC-II	MEV 301	0	0	2	2	0	20		30

<b>Total</b>			<b>18</b>	<b>4</b>	<b>12</b>	<b>34</b>	<b>26</b>				
<b>Semester - VI</b>											
<b>S.No</b>	<b>Course Title</b>	<b>Course Code</b>	<b>Teaching Schedule</b>				<b>Total Hours</b>	<b>Credit</b>	<b>Weightage (%)</b>		
			<b>L</b>	<b>T</b>	<b>P</b>	<b>CW *</b>			<b>MT** E</b>	<b>ET E</b>	
1	Internal Combustion Engine	MEL 302	3	0	2	5	4	10+20	40	50+30	
2	Manufacturing Technology	MEL 304	3	0	2	5	4	10+20	40	50+30	
3	Heat Transfer	MEL 306	3	1	2	6	5	10+20	40	50+30	
4	Steam Power Generation	MEL 308	3	1	2	6	5	10+20	40	50+30	
5	Metrology & Control	MEL 310	3	1	0	4	4	10+20	40	50+30	
6	CNC Machine and Automation	MEL 312	3	1	0	4	4	10	40	50	
7	VAC –III	MEV 302	0	0	2	2	0	20		30	
<b>Total</b>			<b>18</b>	<b>4</b>	<b>10</b>	<b>32</b>	<b>26</b>				
<b>Semester - VII</b>											
<b>S.No</b>	<b>Course Title</b>	<b>Course Code</b>	<b>Teaching Schedule</b>				<b>Total Hours</b>	<b>Credit</b>	<b>Weightage (%)</b>		
			<b>L</b>	<b>T</b>	<b>P</b>	<b>CW *</b>			<b>MTE** E</b>	<b>ETE</b>	
1	Refrigeration & Air Conditioning	MEL 401	3	1	2	6	5	10+20	40	50+30	
2	Mechanical Vibration	MEL 403	3	1	0	6	5	10	40	50	
3	Computer Aided Design and	MEL-405	3	1	0	6	5	10	40	50	
4	Minor Project (Including Seminar)	MED 419	0	0	4	4	2		50		
5	Practical Training - II	MET 425	0	0	2	2	1		50		
6	Elective 2*		3	1	0	4	4	10	40	50	
7	Elective 3*		3	1	0	4	4	10	40	50	
8	Professional Communication	AHL 400	0	0	2	2	0	10	40	50	
<b>Total</b>			<b>17</b>	<b>5</b>	<b>12</b>	<b>34</b>	<b>26</b>				
<b>Semester - VIII</b>											
<b>S.No</b>	<b>Course Title</b>	<b>Course Code</b>	<b>Teaching Schedule</b>				<b>Total Hours</b>	<b>Credit</b>	<b>Weightage (%)</b>		
			<b>L</b>	<b>T</b>	<b>P</b>	<b>CW *</b>			<b>MTE** E</b>	<b>ETE</b>	
1	Operations Research	MEL 402	3	1	0	4	4	10	40	50	
2	Major Project (Including Seminar)	MED 420	0	0	12	12	6	50		250	
3	Independent Seminar	MEC 422	0	0	2	2	1		50		
4	Elective 4*		3	1	0	4	4	10	40	50	
5	Elective 5*		3	1	0	2	4	10	40	50	
6	VAC-III	MEV 402	0	0	2	24	0		50		
<b>Total</b>			<b>9</b>	<b>3</b>	<b>16</b>		<b>19</b>				

School of Mechanical Engineering, MVN UNIVERSITY PALWAL  
**SCHEME & SYLLABUS**  
 DIPLOMA for the batch 2013-14 & lateral entry 2014-15 & BEFORE  
 MVN University, Palwal  
**Scheme of Studies, Syllabus & Examinations**  
**Integrated B.Tech(M.E) 2nd Year**  
**Semester - III**

Sr. no	Course title	Paper code	Teaching schedule			Total hours	Credit	CW *	MT** E	ET E
			L	T	P					
1	Math-III	AHL033	3	1	0	4	4	10	40	50
2	Thermodynamics	MEL 033	3	1	0	4	4	10	40	50
3	Applied Mechanics	MEL 035	3	1	2	6	5	10+20	40	50+30
4	Manufacturing Technology - I	MEL 037	3	0	2	5	4	10+20	40	50+30
5	Machine Drawing	MEL 039	1	0	4	5	3	20		30
6	Language Communication -	AHP 031	1	0	2	3	0		50	
7	Electrical Machines	EEL 039	3	1	2	6	5	10+20	40	50+30
	Total		17	4	12	33	25			

**SEMESTER - IV**

Sr. no	Course title	Paper code	Teaching schedule			Total hours	Credit	CW *	MT** E	ET E
			L	T	P					
1	Engineering Materials	MEL 032	3	0	2	5	4	10+20	40	50+30
2	Fluid Mechanics & Machines	MEL 034	3	0	2	5	4	10+20	40	50+30
3	Internal Combustion Engines	MEL 036	3	0	2	5	4	10+20	40	50+30
4	Manufacturing Technology II	MEL 038	3	0	2	5	4	10+20	40	50+30
5	Strength of Material	MEL 031	3	1	2	5	5	10+20	40	50+30
6	CAD Lab	MEP 042	0	0	2	2	1		20	30
7	Language Communication -	AHP 032	1	0	2	3	0		50	
8	Basics of EVS	AHL 034	2	0	0	2	2	10	40	50
	Total		18	2	12	32	24			

**Semester-V**

Sr. no	Course title	Paper code	Teaching schedule			Total hours	credit	CW *	MT** E	ET E
			L	T	P					
1	Theory of Machine	MEL-061	3	1	2	6	5	10+20	40	50+30
2	Refrigeration and Air-Conditioning	MEL-063	3	1	2	6	5	10+20	40	50+30
3	Industrial Engineering	MEL-065	3	0	0	3	3	10+20	40	50+30
4	Manufacturing Science	MEL-067	3	0	0	3	3	10	40	50
5	Machine Design -I	MEL-073	3	2	0	5	5	10	40	50

6	CNC Machine and automation	MEL-069	3	0	0	3	3	10	40	50
7	Minor Project	MED-071	0	0	4	4	2		50	
8	Language Communication -	AHP- 061	2	0	0	2	0		50	
	Total		20	4	8	32	26			

Semester-VI

S. No	Course Title	Paper Code	Teaching Schedule				TOTAL	CREDIT	CW *	MT** E	ET E
			L	T	P						
1	Industrial Management	MEL-062	3	0	0	3	3	10	40	50	
2	Automobile Engineering	MEL-066	3	1	2	6	5	10+20	40	50+30	
3	Departmental Elective	*****	3	0	0	3	3	10	40	50	
4	Inspection and Quality Control	MEL-074	3	0	2	5	4	10	40	50	
5	Machine Design-II	MEL-064	3	2	0	5	5	10	40	50	
6	Major Project	MED-072	0	0	6	6	3		25	75	
7	Language Communication - VI	AHP- 062	1	0	2	3	NC		50		
	Total		16	3	12	31	23				

\*1 Departmental Elective

**MEL-068**

MEL-076

MEL-078

MEL-082

MEL-084

**Entrepreneurship Development and Management**

Total Quality Controls

Power Plant Engineering.

Robotics

Foundry Technology

MVN UNIVERSITY PALWAL  
SCHEME & SYLLABUS EVEN SEM  
B.Tech. for the batch 2014-15 & lateral entry 2015-16

**SEMESTER – III**

S.No	Course Title	Course Code	Teaching Schedule			Total Hours	Credit	Evaluation Scheme		
			L	T	P			CW*	MT** E	ET E
1	Mathematics-III	AHL-211-A	3	1	0	4	4	10	30	60
2	Engineering Mechanics	MEL 205-A	3	1	0	4	4	10	30	60
3	Strength of Materials	MEL 207-A	3	1	0	4	4	10	30	60
5	Engineering Thermodynamics	MEL 211-A	3	1	0	4	4	10	30	60
6	Managerial Economics	MSL 503-A	3	0	0	3	3	10	30	60
7	Professional Communication - III	AHP 201-A	1	0	2	3	1		20	30
8	Engineering Mechanics Lab	MEP 205-A	0	0	2	2	1		20	30
9	Strength of Materials Lab	MELP 207-A	0	0	2	2	1		20	30
10	Machine Drawing Lab	MEP 209-A	0	0	3	3	1		20	30
<b>Total</b>			<b>16</b>	<b>4</b>	<b>9</b>	<b>29</b>	<b>23</b>	<b>50</b>	<b>230</b>	<b>420</b>

**Note:** Training period after fourth semester shall be of 4-6 weeks duration. However, viva-voce shall be conducted in the fifth semester.

**SEMESTER - IV**

S. No	Course Title	Course Code	Teaching Schedule			Total Hours	Credit	Evaluation Scheme		
			L	T	P			CW*	MT** E	ET E
1	Fluid Mechanics	MEL-202-A	3	1	0	4	4	10	30	60
2	Machine Design-I	MEL-204-A	3	2	0	5	5	10	30	60
3	Kinematics of Machine	MEL-206-A	3	1	0	4	4	10	30	60
4	Material Science	MEL-208-A	3	0	0	3	3	10	30	60
5	Numerical Methods	AHL- 208-A	3	1	0	4	4	10	30	60
6	Principles of Management	MSL -212-A	3	0	0	3	3	10	30	60
7	VAC-I/Professional Comm	MEV-200-A	0	0	2	2	1		20	30
8	Fluid Mechanics Lab	MEP-202-A	0	0	2	2	1		20	30
9	Kinematics of Machine Lab	MEP-206-A	0	0	2	2	1		20	30
10	Material Science And Tes	MEP-208-A	0	0	2	2	1		20	30
11	Numerical Methods Lab	AHP-208-A	0	0	2	2	1		20	30
<b>Total</b>			<b>18</b>	<b>5</b>	<b>10</b>	<b>33</b>	<b>28</b>	<b>60</b>	<b>280</b>	<b>510</b>

MVN UNIVERSITY PALWAL  
SCHEME & SYLLABUS  
Diploma for the batch 2014-15 & lateral entry 2015-16

**Semester III**

Sr. no	Course title	Paper code	Teaching schedule			Total hours	Credit	Evaluation Scheme		
			L	T	P			CW*	MT** E	ET E
1	Mathematics -III	AHL- 033-A	4	1	0	5	5	10	40	50
2	Thermodynamics	MEL-033-A	3	1	0	4	4	10	40	50
3	Applied Mechanics	MEL-035-A	3	1	0	4	4	10	40	50
4	Manufacturing Technology-I	MEL-037-A	3	1	0	4	3	10	40	50
5	Machine Drawing	MEL-039-A	1	0	4	5	3		20	30
6	Electrical Machine	EEL-039-A	3	1	0	4	4		20	30
7	Language Communication	AHP- 031-A	1	0	2	3	NC		20	30
8	Applied Mechanics Lab	MEP-035-A	0	0	2	2	1		20	30
9	Manufacturing Technology	MEP-037-A	0	0	2	2	1		20	30
10	Electrical Machine Lab	EEL-039-A	0	0	2	2	1		20	30
<b>Total</b>			<b>18</b>	<b>5</b>	<b>12</b>	<b>35</b>	<b>26</b>			

**SEMESTER - IV**

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