

## University of Technology & Management

### B.TECH(MECHANICAL ENGINEERING)

SEMESTER I			SEMESTER II		
Subject Code	Subject	Credits	Subject Code	Subject	Credits
PHYS101	Physics I	4	PHYS102	Physics II	4
CHEM103	Chemistry	4	MATH102	Mathematics II	4
MATH101	Mathematics I	4	GNEG232	Material Science	3
GNEG121	Engineering Mechanics	3	GNEG101	Workshop Technology	2
GNEG111	Engineering Graphics-I	2	COMM112	Communication Workshop 1.2	2
INFO103	Computer Science	2	ENVO101	Environmental Studies	2
COMM111	Communication Workshop 1.1	2	GNEG280	Basic Electrical and Electronics Engineering	4
<b>PRACTICAL</b>			<b>PRACTICAL</b>		
COMM113	Language Lab	1	GNEG102	Engineering Workshop Lab I	1
PHYS103	Physics Lab I	1	PHYS104	Physics Lab II	1
CHEM106	Chemistry Lab	1	GNEG283	Electrical and Electronics Lab	1
GNEG112	Engineering Graphics Lab I	1	COMM114	Language through Literature	1
INFO102	Computer Lab	1			
<b>TOTAL</b>		<b>26</b>	<b>TOTAL</b>		<b>25</b>
SEMESTER III			SEMESTER IV		
Subject Code	Subject	Credits	Subject Code	Subject	Credits
MATH201	Mathematics III	4	MATH302	Applied Numerical Techniques and FEM	4
GNEG241	Thermodynamics and Heat Engines	4	MHEG241	Refrigeration and Air Conditioning	3
GNEG227	Strength of Materials	3	INFO201	Programming Language and DBMS	3
GNEG223	Fluid Mechanics	4	MHEG242	Design of Machine Elements	4
MHEG231	Manufacturing Technology I	3	MHEG243	Measurement, Metrology and Control	3
COMM211	Communication Workshop 2.0	2	MHEG244	Kinematics of Machines	4
<b>PRACTICAL</b>			<b>PRACTICAL</b>		
GNEG211	Engineering Graphics Lab II	1	MHEG245	Machine Drawing Lab	2
MHEG232	Manufacturing Technology Lab I	1	MHEG246	Measurement & Metrology Lab	1
GNEG224	Fluid Mechanics Lab	1	GNEG222	Material Testing Lab	1
			INFO202	Programming Language and DBMS Lab	1
<b>TOTAL</b>		<b>23</b>	<b>TOTAL</b>		<b>26</b>

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SEMESTER V			SEMESTER VI		
SubjectCode	Subject	Credits	SubjectCode	Subject	Credits
BBCG120	Production and Operation Management	3	IMGT301	Industrial Management	3
MHEG352	Advanced Machine Design	4	MHEG361	Fluid and Turbo Machi	4
MHEG353	I.C Engines	4	MHEG362	Dynamic of Machines	4
MHEG355	Manufacturing Technology II	3	MHEG363	Automobile Engineering	3
GNEG351	Heat Transfer Processes	4	MTEG371	Quality, Reliability and Safety	3
ADEG342	Micro Processor Based Control System	3	COMM311	Communication Workshop 3.0	1
PRACTICAL			PRACTICAL		
MHEG356	Manufacturing Technology Lab II	1	MHEG364	Fluid Machinery Lab	1
ADEG321	Engine Testing & Emission Measurement Lab	1	MHEG365	Automobile Engineering Lab	1
GNEG352	Heat Transfer Lab	1	MHEG366	Theory of Machines Lab	1
PROJ301	Minor Project I	2	PROJ302	Minor Project II	4
MHEG354	RAC Lab	1	VIVA301	Comprehensive Viva I	2
			INDT301	Industrial Visit	1
	<b>TOTAL</b>	<b>27</b>		<b>TOTAL</b>	<b>28</b>
SEMESTER VII			SEMESTER VIII		
SubjectCode	Subject	Credits	SubjectCode	Subject	Credits
MATH401	Operation Research	4	ADEG331	Alternate Energy Sources	3
GNEG363	CAD/CAM	3	MHEG481	Mechanical Vibrations	4
PSEG301	Power Plant Engineering	3	BBCG119	Entrepreneurship Development	2
	Elective I (Any One)	3		Elective II (Any One)	4
ASEG483	Finite Element Analysis		MTEG451	Tribology	
PSEG442	Energy Management		ASEG431	Computational Fluid Dynamics	
ADEG702	Advanced Manufacturing Technology		MHEG482	Product Design and Development	
PRACTICAL			PRACTICAL		
GNEG364	CAD/CAM Lab	1	PROJ402	Major Project II	8
SEMI403	Seminar	1			
PROJ401	Major Project I	4			
INDT401	Industrial Training	2			
VIVA401	Comprehensive Viva II	2			
	<b>TOTAL</b>	<b>23</b>		<b>TOTAL</b>	<b>21</b>
<b>Total Credits</b>		<b>198</b>			