

# Punjab Tianjin University of Technology

## Curriculum - Bachelor in Mechanical Engineering Technology

Semester I				
No.	Subject	Theory	Practical	Credit hours
1	Advance Mathematics - I	4	0	4
2	Computing Applications	3	1	4
3	Functional English	3	0	3
4	Technical Drawing – I	3	1	4
5	Applied Chemistry	3	0	3
6	Compendium of Mechanical Engineering	2	0	2
<b>Total Credit Hours</b>				<b>20</b>
Semester II				
No.	Subject	Theory	Practical	Credit hours
1	Advance Mathematics – II	4	0	4
2	Physics - I	3	1	4
3	Engineering Mathematics - I	3	0	3
4	Technical Drawing – II	3	1	4
5	Theory Mechanics	4	0	4
6	Course Project on Measuring and Drawing of Mechanical Parts	0	2	2
7	Engineering Material & Heat-treatment	3	0	3
<b>Total Credit Hours</b>				<b>24</b>
Semester III				
No.	Subject	Theory	Practical	Credit hours
1	Physics - II	3	1	4
2	Engineering Mathematics - II	3	0	3
3	English Comprehension & Composition	3	0	3
4	Engineering mechanics- I	4	0	4
5	Theory of Machine and Mechanisms Design	4	0	4
6	Virtual Design & Application	3	0	3
7	Engineering Training- I	1	3	4
<b>Total Credit Hours</b>				<b>25</b>
Semester IV				
No.	Subject	Theory	Practical	Credit hours
1	Mould design	2	1	3
2	Electrical Engineering & Electron Technology	4	0	4
3	Mechanical Design	4	0	4
4	Precision Design & Measuring Technology	2	1	3
5	Mechanical Manufacture Engineering	2	1	3
6	Course Project on Mechanical Design	0	2	2
<b>Total Credit Hours</b>				<b>19</b>

<b>Semester V</b>				
<b>No.</b>	<b>Subject</b>	<b>Theory</b>	<b>Practical</b>	<b>Credit hours</b>
1	CNC Machine & CAM programming	2	1	3
2	Digitized design for Automotive die	2	2	4
3	C++ Programming & Application	3	1	4
4	Mechanical Manufacture Engineering 2	3	1	4
5	Power Control of Machine Tool & PLC	3	1	4
6	Hydraulic & Pneumatic Control	3	1	4
7	Advanced Manufacturing Technology	2	1	3
8	Mechanical Equipment Design	3	1	4
9	Course Project on Mechanical CAD/CAM	0	2	2
10	Intensive Training on 3D Modeling	0	3	3
11	Inspection & Quality Control	0	2	2
<b>Total Credit Hours</b>				<b>37</b>
<b>Semester VI</b>				
<b>No.</b>	<b>Subject</b>	<b>Theory</b>	<b>Practical</b>	<b>Credit hours</b>
1	Skill Training for mid-level	0	12	12
2	Training on Mechanical Equipment Design	0	2	2
3	Training on Mechanical Design Engineer	0	4	4
4	Engineering Management	2	0	2
<b>Total Credit Hours</b>				<b>20</b>
<b>Semester VII</b>				
<b>No.</b>	<b>Subject</b>	<b>Theory</b>	<b>Practical</b>	<b>Credit hours</b>
1	Simulating & Application on Mechanical System	2	0	2
2	Fluid Mechanics	2	0	2
3	Thermodynamics	2	0	2
4	Sensor & Testing Technology	2	1	3
5	Robot technology	2	1	3
6	VC Programming & Application	3	0	3
7	Data Structure & Algorithm	2	0	2
8	FEM & Application	3	1	4
9	Intensive Skill Training	0	9	9
<b>Total Credit Hours</b>				<b>30</b>
<b>Semester VIII</b>				
<b>No.</b>	<b>Subject</b>	<b>Theory</b>	<b>Practical</b>	<b>Credit hours</b>
1	Graduation Fieldwork	0	4	4
2	Project Design	0	10	10
<b>Total Credit Hours</b>				<b>14</b>
<b>Program Total Credit Hours</b>				