

## B.E. Mechanical Engineering

Sr. No.	Course code	Course Name	Teaching			Credits (C)	Examination Scheme					Category
			Scheme				Theory Marks		Tutorials/		Total	
			(Hours)						Practical Marks		Marks	
			L	T	P		E	Mi	I	V		
<b>B.E. 1st Year: Semester 1&amp;2</b>												
1	3110002	English	2	0	2	3	70	30	20	30	150	HSS
2	3110003	Programming for Problem Solving	3	0	2	4	70	30	20	30	150	ES
3	3110004	Basic Civil Engineering	3	0	2	4	70	30	20	30	150	ES
4	3110005	Basic Electrical Engineering	3	0	2	4	70	30	20	30	150	ES
5	3110006	Basic Mechanical Engineering	3	0	2	4	70	30	20	30	150	ES
6	3110007	Environmental Sciences	2	2	0	0	70	30	0	0	100	M
7	3110011	Physics	3	0	2	4	70	30	20	30	150	BS
8	3110012	Workshop/ Manufacturing Practices	0	0	4	2	0	0	20	80	100	ES
9	3110013	Engineering Graphics & Design	2	0	4	4	70	30	20	30	150	ES
10	3110014	Mathematics – I	3	2	0	5	70	30	0	0	100	BS

<b>11</b>	3110015	Mathematics –2	3	2	0	5	70	30	0	0	100	BS
<b>12</b>	3110017	Induction Program	0	0	0	0	0	0	0	0	0	M
<b>B.E. 2nd Year: Semester 3</b>												
<b>13</b>	3130004	Effective Technical Communication	2	0	2	3	70	30	20	30	150	HSS
<b>14</b>	3130005	Complex Variables and Partial Differential Equations	3	2	0	5	70	30	0	0	100	BS
<b>15</b>	3130007	Indian Constitution	2	0	0	0	50	0	0	0	50	M
<b>16</b>	3130008	Design Engineering - I A	0	0	2	1	0	0	20	80	100	PW
<b>17</b>	3131904	Material Science and Metallurgy	3	0	2	4	70	30	20	30	150	ES
<b>18</b>	3131905	Engineering Thermodynamics	4	0	2	5	70	30	20	30	150	PC
<b>19</b>	3131906	Kinematics and Theory of Machines	4	0	2	5	70	30	20	30	150	PC
<b>B.E. 2nd Year: Semester 4</b>												
<b>20</b>	3140005	Design Engineering 1 B	0	0	2	1	0	0	20	80	100	PW
<b>21</b>	3141901	Mechanical Measurement and Metrology	4	0	2	5	70	30	20	30	150	BS
<b>22</b>	3141906	Fluid Mechanics and Hydraulics Machines	4	0	2	5	70	30	20	30	150	PC
<b>23</b>	3141907	Fundamentals of Machine Design	4	0	2	5	70	30	20	30	150	PC
<b>24</b>	3141908	Manufacturing Processes	3	0	2	4	70	30	20	30	150	PC
<b>25</b>	3141909	Organisational Behaviour	3	0	0	3	70	30	0	0	100	HSS
<b>B.E. 3rd Year: Semester 5</b>												
<b>26</b>	3150001	Design Engineering - II A	0	0	2	1	0	0	20	80	100	PW

<b>27</b>	3150005	Integrated Personality Development Course	2	0	0	2	70	30	20	30	150	PDE
<b>28</b>	3151909	Heat Transfer	4	0	2	5	70	30	20	30	150	PC
<b>29</b>	3151910	Operation Research	3	0	0	3	70	30	0	0	100	HSS
<b>30</b>	3151911	Dynamics of Machinery	4	0	2	5	70	30	20	30	150	PC
<b>31</b>	3151912	Manufacturing Technology	3	0	2	4	70	30	20	30	150	PC
<b>32</b>	3151913	Oil Hydraulics And Pneumatics	3	0	0	3	70	30	0	0	100	OE
<b>B.E. 3rd Year: Semester 6</b>												
<b>33</b>	3160001	Design Engineering II B	0	0	2	1	0	0	20	80	100	PW
<b>34</b>	3160003	Integrated Personality Development Course	2	0	0	2	70	30	20	30	150	PDE
<b>35</b>	3161903	Computer Aided Design Professional Elective - I	3	0	2	4	70	30	20	30	150	PE
<b>36</b>	3161910	Applied Thermodynamics	4	0	2	5	70	30	20	30	150	PC
<b>37</b>	3161917	Computer Aided Manufacturing Professional Elective - II	3	0	2	4	70	30	20	30	150	PE
<b>38</b>	3161923	Non-destructive Testing Professional Elective - III	3	0	2	4	70	30	20	30	150	PE
<b>39</b>	3161924	Entrepreneurship and E-business Open elective - II	3	0	0	3	70	30	0	0	100	OE
<b>B.E. 4th Year: Semester 7</b>												
<b>40</b>	3170001	Summer Internship	0	0	0	2	0	0	20	80	100	PW
<b>41</b>	3171910	Power Plant Engineering	3	0	0	3	70	30	0	0	100	PC
<b>42</b>	3171917	Design of Machine Elements	3	0	2	4	70	30	20	30	150	PC
<b>43</b>	3171922	Automation in Manufacturing Professional Elective - IV	3	0	2	4	70	30	20	30	150	PE

<b>44</b>	3171923	Internal Combustion Engine Professional Elective - V	3	0	2	4	70	30	20	30	150	PE
<b>45</b>	3171929	Quality and Reliability Engineering Professional Elective - VI	3	0	2	4	70	30	20	30	150	PE
<b>46</b>	3171931	Nanotechnology and surface Engineering Open Elective - III	3	0	0	3	70	30	0	0	100	OE
<b>B.E. 4th Year: Semester 8</b>												
<b>47</b>	3181901	Internship/Project	0	0	24	12	0	0	100	100	200	PW

<b>Sr. No.</b>	<b>Category</b>	<b>Total number of courses</b>
1	HSS - Humanities and Social Sciences	4
2	BS - Basic Science	5
3	ES - Engineering Science	7
4	PC - Professional core	11
5	PE - Professional Elective	6
6	OE - Open Elective	3
7	PW - Project Work	6
8	M - Mandatory	3
9	PDE - Personality Development Elective	2