

**B. Tech. Production Engineering**  
**Course Structure for Semester III [Second Year] w.e.f. 2018-2019**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTBSC301	BSC 7	Engineering Mathematics-III	3	1	--	20	20	60	100	4
BTMEC302	ESC 11	Materials Science and Metallurgy	3	1	--	20	20	60	100	4
BTMEC303	PCC 1	Fluid Mechanics	3	1	--	20	20	60	100	4
BTMEC304	PCC 2	Machine Drawing and CAD	2	--	--	20	20	60	100	2
BTPRC305	PCC 3	Theory of Machines	2	1	--	20	20	60	100	3
BTHM3401	HSMC 3	Basic Human Rights	2	--	--	50	--	--	50	Audit (AU/NP)
BTPRL307	ESC 12	Materials Science and Metallurgy Lab	--	--	2	60	--	40	100	1
BTPRL308	PCC 4	Fluid Mechanics Lab	--	--	2	60	--	40	100	1
BTPRL309	PCC 5	Machine Drawing and CAD Lab	--	--	4	60	--	40	100	2
BTPRL310	PCC 6	Theory of Machines Lab	--	--	2	60	--	40	100	1
BTPRF311	Project 1	Field Training /Internship/Industrial Training I	--	--	--	--	--	50	50	1
Total			15	4	10	390	100	510	1000	23

**B. Tech. Production Engineering**  
**Course Structure for Semester IV [Second Year] w.e.f. 2018-2019**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTPRC401	PCC 7	Casting & Moulding Technology	2	1	--	20	20	60	100	3
BTPRC402	PCC 8	Engineering Thermodynamics & Heat Transfer	3	1	--	20	20	60	100	4
BTMEC403	PCC 9	Strength of Materials	3	1	--	20	20	60	100	4
BTMEC404	BSC 8	Numerical Methods in Mechanical Engineering	2	1	--	20	20	60	100	3
BTID405	PCC 10	Product Design Engineering - I	1	--	2	60	--	40	100	2
BTBSE406A	OEC 1	Physics of Engineering Materials	3	--	--	20	20	60	100	3
BTBSE3405A		Advanced Engineering Chemistry								
BTHM3402		Interpersonal Communication Skill & Self Development								
BTPRL407	PCC 11	Production Processes Lab - I	--	--	2	60	--	40	100	1
BTPRL408	PCC 12	Engineering Thermodynamics & Heat Transfer Lab	--	--	2	60	--	40	100	1
BTPRL409	PCC 13	Strength of Materials Lab	--	--	2	60	--	40	100	1
BTPRL410	BSC 9	Numerical Methods Lab	--	--	2	60	--	40	100	1
Total			14	4	10	400	100	500	1000	23
Minimum 4 weeks training which can be completed partially in third and fourth semester or in at one time.										

**B. Tech. Production Engineering**  
**Course Structure for Semester V [Third Year] w.e.f. 2019-2020**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTPRC501	PCC 14	Design of Machine Elements	3	1	--	20	20	60	100	4
BTPRC502	PCC 15	Joining Technology	2	1	--	20	20	60	100	3
BTPRC503	PCC 16	Metal Forming Processes	2	1	--	20	20	60	100	3
BTPRC504	PCC 17	Machine Tools and Metal Cutting	3	1	--	20	20	60	100	4
BTMEC505	PCC 18	Metrology and Quality Control	2	1	--	20	20	60	100	3
BTID506	PCC 19	Product Design Engineering - II	1	--	2	60	--	40	100	2
BTMEC506A	OEC 2	Automobile Engineering	3	--	--	--	--	--	--	Audit (AU/NP)
BTMEC506B		Nanotechnology								
BTMEC506C		Energy Conservation and Management								
BTPRL507	PCC 20	Machine Design Practice	--	--	2	30	--	20	50	1
BTPRL508	PCC 21	Production Processes Lab - II	--	--	2	30	--	20	50	1
BTPRL509	PCC 22	Mechanical Measurement & Metrology Lab	--	--	2	30	--	20	50	1
BTPRF510	Project 2	Field Training /Internship/Industrial Training II	--	--	--	--	--	50	50	1
Total			16	5	8	250	100	450	800	23

**B. Tech. Production Engineering**  
**Course Structure for Semester VI [Third Year] w.e.f. 2019-2020**

Course Code	Type of Course	Course Title	Weekly Teaching Scheme			Evaluation Scheme				Credits
			L	T	P	CA	MSE	ESE	Total	
BTPRC601	PCC 23	CAD/CAM/CIM	3	1	--	20	20	60	100	4
BTPRC602	PCC 24	CNC Machines & Programming	2	1	--	20	20	60	100	3
BTPRC603	PCC 25	Industrial Engineering & Management	2	1	--	20	20	60	100	3
BTPRC604A	PEC 1	Flexible Manufacturing Systems	2	1	--	20	20	60	100	3
BTPRC604B		Production Planning and Control								
BTPRC604C		Assembly Planning & Management								
BTPRC604D		Supply Chain Management								
BTMEC605A	OEC 3	Quantitative Techniques in Project Management	3	--	--	20	20	60	100	3
BTMEC605B		Sustainable Development								
BTMEC605C		Renewable Energy Sources								
BTMEC606A	OEC 4	Biology for Engineers	3	--	--	--	--	--	--	Audit (AU/NP)
BTMEC606B		Solar Energy								
BTMEC606C		Human Resource Management								
BTPRL607	PCC 26	Metal Cutting Lab	--	--	2	30	--	20	50	1
BTPRL608	PCC 27	CAD/CAM/CIM Lab	--	--	2	30	--	20	50	1
BTPRL609	PCC 28	CNC Machines & Programming Lab	--	--	2	30	--	20	50	1
BTPRM610	Project 3	Technical Project for Community Services	--	--	4	30	--	20	50	2
Total			15	4	10	220	100	380	700	21