

SVKM'S NMIMS
Mukesh Patel School of Technology Management & Engineering
 Course Structure: Academic Year 2017-18
 Teaching Scheme: B. Tech. (1st Year)
 (As approved in the Academic Council)

Name of the Programme : B. Tech. (Common for all branches)							Year: 2017 - 18					Semester : I/II							
Sr.No.	Module / Course Code	Name of the Module/ Course	Theory (Hours per week)	Practical (Hours per week)	Tutorials (Hours per week)	Total Hours per week	Total Credits	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)								Template Codes	
								Written	Only ICA	*ICA				TEE		Total			
										Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)	Marks		Weightage %
Semester - I																			
1	BTAB01001	Engineering Mathematics - I	3	0	2	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
2	BTAB01002	Engineering Physics	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
3	BTAB01003	Basic Electrical Engineering	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
4	BTAB01004	Engineering Drawing	3	4	0	7	5	Practical/ 3 hrs.	-	10	10	30	50	30	70*	70	100	100	7008
5	BTAB01005	Engineering Mechanics-I	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
6	BTAB01006	Computer Programming-I	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
7	BTAB01007	Communication Skills	2	0	2	4	3	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
Total			20	12	4	36	28	21		70	70	210	350	210	490	490	700		

*Practical/TEE examination to be conducted at School level

Semester - II																			
1	BTME02001	Engineering Mathematics-II	3	0	2	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
2	BTME02002	Engineering Chemistry	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
3	BTME02003	Basic Electronics	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
4	BTME02004	Engineering Mechanics -II	3	0	2	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
5	BTME02005	Computer Programming-II	3	2	0	5	4	Written/ 3 hrs.		10	10	30	50	30	70	70	100	100	7008
6	BTME02006	Workshop Practice	0	4	0	4	2	-	Only ICA	-	-	50	50	50	-	-	50	100	7003
7	BTME02007	Constitution of India	2	0	0	2	0	-	Only ICA	10	10	30	50	50	-	-	50	100	7003
Total			17	10	4	31	22	15		60	60	230	350	250	350	350	600		

Name of the Programme: B.TECH MECHANICAL							Year: 2017-18					Semester: III/IV							
Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Practicals Hours per week	Tutorials Hours per week	Total no. of hours for the subject	Credit/s	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)								Template Codes	
								Written	Only ICA	*ICA			TEE		Total				
										Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)	Marks		Weight age %
Semester - III																			
1	BTME03001	Engineering Mathematics - III	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
2	BTME03002	Engineering Thermodynamics	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
3	BTME03003	Strength of Materials	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
4	BTME03004	Fluid Mechanics	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
5	BTME03005	Theory of Machines - I	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
6	BTME03106	Manufacturing Processes - I	3	0	0	3	3	3	-	15	15	20	50	30	70	70	100	100	7008
7	BTME03007	Machine Shop - I	0	2	0	2	1	-	Only ICA	-	-	50	50	50	-	-	50	100	7003
Total			18	6	6	30	24	18	0	90	90	170	350	230	420	420	650		
Semester - IV																			
1	BTME04001	Engineering Mathematics - IV	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
2	BTME04102	Machine Drawing **	2	4	0	6	4	Practical / 3	-	15	15	20	50	30	70	70	100	100	7008
3	BTME04003	Fluid Machinery	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
4	BTME04004	Materials Engineering	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
5	BTME04005	Environmental Engineering and Management Systems	3	0	0	3	3	3	-	15	15	20	50	30	70	70	100	100	7008
6	BTME04006	Theory of Machines - II	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
7	BTME04007	Industrial Electronics	2	2	0	4	3	3	-	15	15	20	50	30	70	70	100	100	7008
Total			19	12	2	33	26	21	0	105	105	140	350	210	490	490	700		
** Practical examination to be conducted at school level																			

(As approved in the Academic Council)

Name of the Programme: B.TECH MECHANICAL																			
								Year: 2017-18				Semester: V/VI							
Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Practicals Hours per week	Tutorials Hours per week	Total no. of hours for the subject	Credit/s	Term End Exam Duration (Hrs)		Examination Scheme (Weightage)								Template Codes	
								Written	Only ICA	*ICA				TEE		Total			
										Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)	Marks		Weight age %
Semester - V																			
1	BTME05001	Thermal Engineering	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
2	BTME05002	Manufacturing Processes - II	3	0	0	3	3	3	-	15	15	20	50	30	70	70	100	100	7008
3	BTME05003	Design of Machine Elements - I	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
4	BTME05004	Mechatronics and Controls	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
5	BTME05005	Mechanical Measurement and Metrology	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
6	BTME05006	Machine Shop - II	0	2	0	2	1	0	Only ICA	-	-	50	50	50	-	-	50	100	7003
7	BTME05007	Industrial Engineering	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
Total			18	10	2	30	24	18	0	90	90	170	350	230	420	420	650		
Semester - VI																			
1	BTME06001	Heat Transfer	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
2	BTME06002	I. C. Engines	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
3	BTME06003	Design of Machine Elements - II	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
4	BTME06004	Vibration Engineering	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
5	BTME06005	Manufacturing Management	3	0	2	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
6	BTME06006	Presentation and Communication Techniques	2	0	2	4	3	3	-	15	15	20	50	30	70	70	100	100	7008
7	BTME06007	CAD/CAM/CIM	3	2	0	5	4	3	-	15	15	20	50	30	70	70	100	100	7008
Total			20	10	4	34	27	21	0	105	105	140	350	210	490	490	700		

SVKM's NMIMS
School Name: **MUKESH PATEL SCHOOL OF TECHNOLOGY MANAGEMENT & ENGINEERING**
Course Structure for Academic Year: 2018-19
(As approved in the Academic Council)

Name of the Programme: B.TECH MECHANICAL							Year: 2018-19					Semester: VII/VIII												
Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Practicals Hours per week	Tutorials Hours per week	Total no. of hours for the subject	Credit/s	Credit/s types	Term End Exam Duration (Hrs)		Mode of Exam Written / OffLine/ On line/ Computer based / Practical/ Viva /Jury/ Presentation	Examination Scheme (Weightage)								Templ ate Codes	GR Appli cable (Yes/ No)	Remar k		
									Written	Only ICA		ICA				TEE		Total						
												Test I	Test II	Term work *	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)	Marks				Weight age %	
Semester - VII																								
1	BTME07001	Design of Mechanical Systems	3	2	0	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes		
2	BTME07002	Refrigeration and Air Conditioning	3	2	0	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	#	
3	BTME07003	Finite Element Analysis	3	2	0	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes		
4	BTME07004	Project Part - I	0	6	0	6	3	full credit	0	Only ICA	Viva & Presentation	-	-	50	50	50	-	-	50	100	7003	No		
5		Elective I	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes		
Total			12	12	2	26	19		12	0		60	60	130	250	170	280	280	450					
Semester - VIII																								
1	BTME08001	Total Quality Management	3	0	0	3	3	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes		
2	BTME08007	Additive Manufacturing	3	2	0	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes	#	
3	BTME08004	Engineering Economics, Costing and Accounting	3	0	0	3	3	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes		
4	BTME08005	Project Part - II	0	8	0	8	4	full credit	0	Only ICA	Viva & Presentation	-	-	100	100	100	-	-	100	100	7003	No		
5		Elective II	3	0	2	5	4	full credit	3	-	Written	15	15	20	50	30	70	70	100	100	7008	Yes		
6	BTME08012	Elements of Biology	3	0	2	5	4	full credit	3	--	Written	15	15	20	50	30	70	70	100	100	7008	Yes	NUE	
7	BTME08013	Numerical Methods	3	0	2	5	4	full credit	3	--	Written	15	15	20	50	30	70	70	100	100	7008	Yes	NUE	
Total			18	10	6	34	26	0	18	0		60	90	220	400	280	420	420	700					

* Term Work = Viva / Presentations/ Journals/ assignments/ quizzes / MCQs/Business plans/Role plans etc.

Syllabus common for B.Tech (Mechanical) and MBA(Tech) Mechanical, can use common question paper.

NUE = Non University Examination (examination conducted at school level)

Elective I		
Code	Subject	Remark
BTME07005	Tribology	
BTME07007	Advanced Turbomachinery	#
BTME07008	Automobile Engineering	#
BTME07009	Introduction to Nano-Technology	#
BTME07010	Project Management	
BTME07011	Renewable Energy Sources	#

Elective II		
Code	Subject	Remark
BTME08006	Dynamic System Modeling and Analysis	
BTME08002	Product Design and Development	
BTME08008	Reliability Engineering	#
BTME08009	Computational Fluid Dynamics	#
BTME08010	Robotics	#
BTME08011	Operations Research	