

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. (Computer Engineering)							Year: 2017 - 18							Semester : I					
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 (University / School examination)		Total		
										Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)	Marks		Weight age %
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

Name of the Programme : B. Tech. (Computer Engineering)							Year: 2017 - 18							Semester : 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 (University / School examination)		Total		
										Test I	Test II	Term work	Total Marks	Scaled to (Marks)	Marks	Scaled to (Marks)	Marks		Weight age %
Semester - II																			
1	BTCO02001	Engineering Mathematics-II	3	0	2	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
2	BTCO02002	Engineering Chemistry	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
3	BTCO02003	Basic Electronics	3	2	0	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
4	BTCO02004	Engineering Mechanics -II	3	0	2	5	4	Written/ 3 hrs.	-	10	10	30	50	30	70	70	100	100	7008
5	BTCO02005	Computer Programming-II	3	2	0	5	4	Written/ 3 hrs.		10	10	30	50	30	70	70	100	100	7008
6	BTCO02006	Workshop Practice	0	4	0	4	2	-	Only ICA	-	-	50	50	50	-	-	50	100	7003
7	BTCO02007	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 Computer Engineering								Semester:III				Year: 2017-18								
Sr. No.	SAP Module Code	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		Examination Scheme (Weightage)								Template Codes	
									Write n	Only ICA	*ICA				TEE		Total			
											Test I	Test II	Term work	Total Marks	Scaled to (marks)	Marks	Scaled to (marks)	Marks		Weightage%
1	BTCO03001	BTCO03001	Engineering Mathematics III	3	0	2	5	4	3		15	15	20	50	30	70	70	100	100	7008
2	BTCO03002	BTCO03002	Data Structures	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7008
3	BTCO03003	BTCO03003	Discrete Structures	3	0	2	5	4	3		15	15	20	50	30	70	70	100	100	7008
4	BTCO03004	BTCO03004	Digital Logic Design	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7008
5	BTCO03005	BTCO03005	Numerical Techniques	2	2	0	4	3	0	2	15	15	20	50	50	0	0	50	100	7003
6	BTCO03006	BTCO03006	Database Management System	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7008
7	BTCO03008	BTCO03008	Programming Laboratory- I	1	2	0	3	2	0	2	15	15	20	50	50	0	0	50	100	7003
				18	10	4	32	25			105	105	140	350	250	350	350	600		

Name of the Programme: B.Tech Computer Engineering								Semester:IV				Year: 2017-18								
Sr. No.	SAP Module Code	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		Examination Scheme (Weightage)								Template Codes	
									Write n	Only ICA	*ICA				TEE		Total			
											Test I	Test II	Term work	Total Marks	Scaled to (marks)	Marks	Scaled to (marks)	Marks		Weightage%
1	BTAB04001	BTCO04001	Engineering Mathematics IV	3	0	2	5	4	3		15	15	20	50	30	70	70	100	100	7008
2	BTCO04002	BTCO04002	Computer Organization and Architecture	3	0	0	3	3	3		15	15	20	50	30	70	70	100	100	7008
3	BTCO04003	BTCO04003	Operating System	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7008
4	BTCO04004	BTCO04004	Computer Networks	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7008
5	BTCO04010	BTCO04010	Theoretical Computer Science	3	0	2	5	4	3		15	15	20	50	30	70	70	100	100	7005
6	BTCO04006	BTCO04006	Analog & Digital Communications	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7008
7	BTCO04007	BTCO04007	Environmental Studies	2	0	0	2	0	0	Only ICA	15	15	20	50	50	0	0	50	100	7003
8	BTCO04011	BTCO04011	Programming Laboratory- II	1	2	0	3	2	0	2	15	15	20	50	50	0	0	50	100	7003
9	BTCO04009	BTCO04009	Professional Ethics	2	0	0	2	2	0	Only ICA	15	15	20	50	50	0	0	50	100	7003
				23	8	4	35	27			135	135	180	450	330	420	420	750		

* ICA Component may vary from programme to programme, therefore changes to be made accordingly.

Name of the Programme: B.Tech Computer Engineering								Semester:V				Year: 2017-18								
Sr. No.	SAP Module Code	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		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%
1	BTCO05002	BTCO05002	Software Engineering	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
2	BTCO05003	BTCO05003	Microprocessor & Microcontroller	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
3	BTCO05004	BTCO05004	Design & Analysis of Algorithms	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
4	BTCO05005	BTCO05005	Computer Graphics	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
5	BTCO05006	BTCO05006	Digital Signal Processing	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
6	BTCO05007	BTCO05007	Research Methodology	2	2	0	4	3	0	1	15	15	20	50	50	0	0	50	100	7003
7	BTCO05008	BTCO05008	Programming for Analytics	3	0	0	3	3	0	1	15	15	20	50	50	0	0	50	100	7003
				20	12	0	32	26			105	105	140	350	250	350	350	600		

Name of the Programme: B.Tech Computer Engineering								Semester:VI				Year: 2017-18								
Sr. No.	SAP Module Code	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		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%
1	BTCO06001	BTCO06001	Object Oriented Software Engineering	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
2	BTCO06002	BTCO06002	Image Processing	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
3	BTCO06003	BTCO06003	Fundamentals of Web Technology	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
4	BTCO06004	BTCO06004	Industrial Economics and Management	3	0	0	3	3	3		15	15	20	50	30	70	70	100	100	7005
5	BTCO06015	BTCO06015	Programming Laboratory- III	1	2	0	3	2	0	2	15	15	20	50	50	0	0	50	100	7003
6	BTCO06007	BTCO06014	Business Visualization	2	0	0	2	2	0	1	15	15	20	50	50	0	0	50	100	7003
7	BTCO06016	BTCO06016	Theoretical computer Science	3	0	2	5	4	3		15	15	20	50	30	70	70	100	100	7005
8			Elective-I	3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
				21	10	2	33	27			120	120	160	400	280	420	420	700		

	Elective-I (Any One)
BTCO06007	Advanced Computer Networks
BTCO06008	Advanced Database Management System
BTCO06009	Unix Programming
BTCO06010	Information Storage and Management
BTCO06012	Operation Research
BTCO06013	Human Computer Interface

Name of the Programme: B.Tech Computer Engineering									Semester:VII				Year: 2018-19								
Sr. No.	SAP Module Code	Module / Subject Code	Name of the Module	No. of Students booked for module	Theory(Hours per week)	Practicals (Hours per week)	Tutorial s(Hours per week)	Total no. of hours for the subject	Credit/ s	Term End Exam		Examination Scheme (Weightage)								Template Codes	
										Writt en	Only ICA	*ICA				TEE		Total			
												Test I	Test II	Term work	Total Marks	Scaled to (marks)	Marks	Scaled to (marks)	Marks		Weightag e%
1	71102D008	BTCCO07001	Distributed Computing		3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
2	71102I004	BTCCO07013	Artificial Intelligence		3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
3	71102D013	BTCCO07003	Data Warehousing and Mining		3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
4	71102P008	BTCCO07004	Project-I		0	8	0	8	4	0	Only ICA	0	0	100	100	100	0	0	100	100	7003
5			Elective-II		3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
					12	16	0	28	20			60	60	180	300	220	280	280	500		

Elective-II (Any One)		
71102I007	BTCCO07005	Introduction to Cloud Computing
71102E004	BTCCO07006	Embedded System
71102A008	BTCCO07007	Advanced Image Processing
71102S005	BTCCO07008	Software Architecture
71102E003	BTCCO07009	E-Commerce
71102A002	BTCCO07010	Advanced Computer Architecture
	BTCCO07011	Principles of Compiler Design

Name of the Programme: B.Tech Computer Engineering									Semester:VIII				Year: 2018-19								
Sr. No.	SAP Module Code	Module / Subject Code	Name of the Module	No. of Students booked for module	Theory(Hours per week)	Practicals (Hours per week)	Tutorial s(Hours per week)	Total no. of hours for the subject	Credit/ s	Term End Exam		Examination Scheme (Weightage)								Template Codes	
										Writt en	Only ICA	*ICA				TEE		Total			
												Test I	Test II	Term work	Total Marks	Scaled to (marks)	Marks	Scaled to (marks)	Marks		Weightag e%
1	71102S008	BTCCO08001	System Security		3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
2	71102S010	BTCCO08002	Soft Computing		3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
3	71102M002	BTCCO08003	Mobile Computing		3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
4	71102P009	BTCCO08004	Project - II		0	8	0	8	4	0	Only ICA	0	0	100	100	100	0	0	100	100	7003
5	71102P012	BTCCO08011	Predictive Modeling		3	0	0	3	3	0	1	15	15	20	50	50	0	0	50	100	7003
6			Elective-III		3	2	0	5	4	3		15	15	20	50	30	70	70	100	100	7005
					15	16	0	31	23			75	75	200	350	270	280	280	550		

Elective-III (Any One)		
71102R001	BTCCO08005	Robotics
71102B003	BTCCO08006	Biometrics
71102P011	BTCCO08007	Parallel Computing
71102M003	BTCCO08008	Multimedia Systems
71102S011	BTCCO08009	Software Quality Assurance & Testing