SVKM's NMIMS

School Name: Mukesh Patel School of Technology Management & Engineering

Teaching Scheme for Academic Year: 2019-20

(As approved in the Academic Council)

Name of the Programme: B. Tech. (Computer Engineering)   Year of the Programme: First year   Semester: I & II

Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Tutorials Hours per week	Practicals Hours per week	Total no. of hours for the subject	Credit/s	Credit/s types	Term End Examination (Hrs)	Continuous Evaluation (Hrs)	Mode of Exam (Written / OffLine/Online/Computer based / Practical/Viva /Jury/ Presentation)	Test I	Test II	Term work *	Total Marks	Scaled to (Marks)	Marks (Question Paper)	Scaled to (Marks)	Marks (Continuous Evaluation+TEE)	Weightage %	Template Codes	GR applicable (Yes / No)	Remark
Semester - I																							
1	BTDS01002	Mathematics-I	3	1	0	4	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	#
2	BTDS01003	Basic Electrical Engineering	3	1	2	6	5	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	##
3	BTDS01004	Physics	3	1	2	6	5	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	##
4	BTDS01005	Engineering Graphics & Design	1	0	4	5	3	full credit	3	--	Practical	10	10	30	50	50	100	50	100	100	7031	Yes	NUE
5	BTDS01006	Constitution of India	2	0	0	2	0	non credit	--	Continuous Evaluation	--	10	10	30	50	50	--	--	50	100	7032	No	
		Total	**12**	**3**	**8**	**23**	**17**	--	**12**	--	--	**50**	**50**	**150**	**250**	**250**	**400**	**200**	**450**				
Semester - II																							
1	BTDS02008	Mathematics-II	3	1	0	4	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	#
2	BTDS02009	Programming for Problem Solving	3	0	4	7	5	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	##
3	BTDS02010	Chemistry	3	1	2	6	5	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	##
4	BTDS02011	Workshop / Manufacturing Practices	1	0	4	5	3	full credit	--	Continuous Evaluation	--	--	--	50	50	50	--	--	50	100	7032	No	
5	BTDS02012	English	2	0	2	4	3	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	##
		Total	**12**	**2**	**12**	**26**	**20**	--	**12**	--	--	**40**	**40**	**170**	**250**	**250**	**400**	**200**	**450**				

School Name: Mukesh Patel School of Technology Management & Engineering

Teaching Scheme for Academic Year: 2019-20

(As approved in the Academic Council)

Name of the Programme: B. Tech. Computer Engg.   Year of the Programme: Second year   Semester: III & IV

Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Tutorials Hours per week	Practicals Hours per week	Total no. of hours for the subject	Credit/s	Credit/s types	Duration of Examination (Hrs) Term End Examination	Duration of Examination (Hrs) Only ICA	Mode of Exam Written / OffLine/On line/Computer based / Practical/Viva /Jury/ Presentation	ICA Test I	ICA Test II	ICA Term work *	ICA Total Marks	ICA Scaled to (Marks)	TEE Marks (Question Paper)	TEE Scaled to (Marks)	Total Marks (ICA+TEE)	Total Weightage %	Template Codes	GR applicable (Yes / No)	Remark
Semester - III																							
1	BTCO03009	Mathematics III	3	1	0	4	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
2	BTCO03004	Digital Logic Design	3	0	2	5	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
3	BTCO03010	Discrete Mathematics	3	1	0	4	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
4	BTCO03002	Data Structures	3	0	2	5	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
5	BTCO03011	Computer Organization and Architecture	3	0	0	3	3	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
6	BTCO0312	Object Oriented Programming	3	0	2	5	4	full credit	3	--	Written	10	10	30	50	50	100	50	50	100	7031	Yes	
7	BTCO03013	Presentation and Communication Techniques	2	0	0	2	2	full credit	2	--	Written	10	10	30	50	50	50	50	100	100		No	
		Total	**20**	**2**	**6**	**28**	**25**	--	**20**	--	--	**70**	**70**	**210**	**350**	**350**	**650**	**350**	**650**				
Semester - IV																							
1		Elements of Biology	3	1	0	4	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100		Yes	
2	BTCO04003	Operating System	3	0	2	5	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
3	BTCO04010	Theoretical Computer Science	3	1	0	4	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
4	BTCO04012	Database Management System	3	0	2	5	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
5	BTCO04018	Principles of Economics and Management	3	0	0	3	3	full credit	3	--	Written	10	10	30	50	50	50	50	100	100		Yes	
6	BTCO04013	Programming Language	2	0	2	4	3	full credit	--	Only ICA	--	10	10	30	50	50	--	--	50	100	7032	No	
7	BTCO04014	Essence of Indian Traditional Knowledge	2	0	0	2	0	Non credit	-	Only ICA	--	10	10	30	50	50	--	--	50	100	7032	No	
		Total	**19**	**2**	**6**	**27**	**22**	--	**15**	--	--	**70**	**70**	**210**	**350**	**350**	**450**	**250**	**600**				

SVKM's NMIMS

School Name: Mukesh Patel School of Technology Management & Engineering

Teaching Scheme for Academic Year: 2020-21

(As approved in the Academic Council)

Name of the Programme: B. Tech. Computer Engg. Year of the Programme: Third Year Semester: V & VI

Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Tutorials Hours per week	Practicals Hours per week	Total no. of hours for the subject	Credit/s	Credit/s types	Duration of Examination (Hrs) Term End Examination	Duration of Examination (Hrs) Only ICA	Mode of Exam Written / OffLine/On line/Computer based / Practical/Viva /Jury/ Presentation	Test I	Test II	Term work *	Total Marks	Scaled to (Marks)	Marks (Question Paper)	Scaled to (Marks)	Marks (ICA+TEE)	Weightage %	Template Codes	GR applicable (Yes / No)	Remark
Semester - V																							
1	MCNB02004	Design and Analysis of Algorithms	3	0	2	5	4	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
2	BTCO06002	Image Processing	3	0	2	5	4	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
3	BTICO06004	Computer Networks	3	0	2	5	4	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
4	BTCO05012	Data Mining	3	0	2	5	4	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
5	BTIT03010	Web Programming	2	0	2	4	3	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
6	MBAB06107	Management Accounting for Engineers	2	0	0	2	2	Full Credit	--	--	Written	10	10	30	50	50	50	50	100	100		Yes	
7	MBCI03012	Environmental Studies	2	0	0	2	0	Non Credit	--	Only ICA	--	10	10	30	50	50	0	0	50	100		No	
		Total	18	0	10	28	21	--	15	--	--	70	70	210	350	350	550	300	650				
Semester - VI																							
1		Artificial Intelligence	3	0	2	5	4	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
2		Unix Programming	3	0	2	5	4	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
3		Software Engineering	3	0	2	5	4	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
4		Department Elective-I	3	0	2	5	4	Full Credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
5		Programming for Data Analysis	3	0	0	3	3	Full Credit	--	Only ICA	--	10	10	30	50	50	0	0	50	100	7032	No	
6		Professional Ethics and Leagal Aspects	0	2	0	2	2	Full Credit	--	Only ICA	--	10	10	30	50	50	0	0	50	100		No	
7		Technical Paper Reading and Writing Skills	0	0	2	2	1	Full Credit	--	Only ICA	--	10	10	30	50	50	0	0	50	100		No	
		Total	15	2	10	27	22	--	12	--	--	70	70	210	350	350	400	200	550				

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

syllabus common for different streams/ Programme can use common question paper. (for eg : B.TECH(Stream) & MBA.TECH (Stream))

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

Dept. Elective - I	
Code	**Subject**
BTCO06007	Advanced Computer Networks
BTCO06021	Soft Computing
BTCO06008	Advanced Database Management System
BTCO06022	Advanced Web Programming
BTCO06023	Object Oriented Software Engineering
BTCO06024	Web Security
BTCO06025	Advanced Image Processing
BTCO06013	Human Computer Interface

Pls. Note :-Any approval/change should be hlighlighted in gray as per academic councils meeting, dated

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SVKM's NMIMS

School Name: Mukesh Patel School of Technology Management & Engineering

Teaching Scheme for Academic Year: 2021-22

(As approved in the Academic Council)

Name of the Programme: B. Tech. Computer Engg.   Year of the Programme: Fourth year   Semester: VII & VIII

Sr. No.	Module / Subject Code	Name of the Module	Theory Hours per week	Tutorials Hours per week	Practicals Hours per week	Total no. of hours for the subject	Credit/s	Credit/s types	Term End Examination	Only ICA	Written / OffLine/Online/Computer based / Practical/Viva /Jury/ Presentation	Test I	Test II	Term work *	Total Marks	Scaled to (Marks)	Marks (Question Paper)	Scaled to (Marks)	Marks (ICA+TEE)	Weightage %	Template Codes	GR applicable (Yes / No)	Remark
Semester - VII																							
1		Department Elective-II	3	0	2	5	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
2		Open Elective -I	2	0	2	4	3	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
3		Business Visualization	2	0	0	2	2	full credit	--	Only ICA	--	10	10	30	50	50	0	0	50	100		No	
4	BTCO07014	Project Phase-I	0	0	8	8	4	full credit	--	Only ICA	--	0	0	100	100	100	0	0	100	100	7032	No	NUE
		Total	**7**	**0**	**12**	**19**	**13**	**--**	**6**	**--**	**--**	**30**	**30**	**190**	**250**	**250**	**200**	**100**	**350**				
Semester - VIII																							
1		Department Elective -III	3	0	2	5	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
2		Department Elective -IV	3	0	2	5	4	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
3		Open Elective - II	2	0	2	4	3	full credit	3	--	Written	10	10	30	50	50	100	50	100	100	7031	Yes	
4	BTCO08012	Project Phase-II	0	0	12	12	6	full credit	--	Only ICA	--	0	0	100	100	100	0	0	100	100	7032	No	NUE
		Total	**8**	**0**	**18**	**26**	**17**	**--**	**9**	**--**	**--**	**30**	**30**	**190**	**250**	**250**	**300**	**150**	**400**				

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

 # syllabus common for different streams/ Programme can use common question paper. (for eg : B.TECH(Stream) & MBA.TECH (Stream))

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

Dept. Elective - II	
Code	Subject
BTCO07015	Mobile Computing
BTCO07016	Machine Learning
BTCO07017	Software Architecture
BTCO07018	Database Security
BTCO07019	Computer Vision
BTCO07020	Fundamentals of Blockchain
BTCO07021	Information Storage and Management
BTCO07011	Advanced Computer Architecture

Dept. Elective - III	
Code	Subject
BTCO08013	Network Infrastructure Management
BTCO08014	Deep Learning
BTCO08015	Embedded System
BTCO08010	Software Quality Assurance & Testing
BTCO08016	Network Security
BTCO08017	Biometrics
BTCO08018	Cloud Computing and IoT
BTCO08019	Multimedia Computing

Dept. Elective - IV	
Code	Subject
BTCO08020	Bioinformatics
BTCO08021	Robotics
BTCO08022	Distributed Computing
BTCO08023	Software Project Management
BTCO08024	Cyber Security and Ethical Hacking
BTCO08025	Image and Video Analytics
BTCO08026	Natural Language Processing
BTCO08027	Parallel Programming

Open Elective - I	
Code	Subject
BTCO07022	Object Oriented Programmimg (Not for IT)
BTCO07023	Data Structure & Algorithms (Not for IT)
BTCO07024	Fundamentals of Computer Science (Not for IT)
BTCO07025	Human Computer Interface (Not for IT)

Open Elective - II	
Code	Subject
BTCO08028	Python Programming (Not for IT)
BTCO08029	Principles of Software Engineering (Not for IT)
BTCO08030	Introduction to Artificial Intelligence (Not for IT)
BTCO08031	Fundamentals of Machine Learning

Pls. Note :-Any approval/change should be hlighlighted in gray as per academic councils meeting, dated _____