

Graphic Era Hill University, Dehradun
B.Tech (Computer Science and Engineering-Core)

SEMESTER: III

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE : EVALUATION			
COURSE			Credits	L	T	P		CIE	MS E	ESE	Total
Code	Title	Component									
TCS-308	Logic Design and Computer Organization	DSC	3	3	-	-	3	25	25	50	100
TCS-302	Data Structures with C	DSC (PBL)	3	3	-	-	3				150
TCS-307	Object Oriented Programming with C++	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-I	DSE (PBL)	3	3	-	-	3				150
TMA-316	Discrete Structures and Combinatorics	DSC	3	3	-	-	3	25	25	50	100
PCS-308	Logic Design and Computer Organization Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-302	Data Structures Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-307	OOPS with C++ Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-301	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-300	Practical for Employability Skill Enhancement	SEC	1	-	-	2	2	25	25	100	100
SCS-301	MOOCS Seminar	VAC	1	-	-	-	-	-	-	100	100
GP-301	General Proficiency	SEC	1	-	-	-		100	-	-	100

DISCIPLINE SPECIFIC ELECTIVE-I

COURSE CODE	COURSE NAME
TCS-351	Fundamental of Cloud Computing and Bigdata
TCS-392	Introduction to Cryptography
TCS-331	Fundamental of IoT
TCS-346	Python Programming
TCS-332	Fundamentals of Information Security and Block Chain

B.Tech (Computer Science and Engineering-Core)
(If Student Chooses Elective Through Swayam)

SEMESTER: III

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE : EVALUATION			
COURSE			Credits	L	T	P		CIE	MS E	ESE	Total
Code	Title	Component									
TCS308	Logic Design and Computer Organization	DSC	3	3	-	-	3	25	25	50	100
TCS302	Data Structures with C	DSC (PBL)	3	3	-	-	3				150
TCS307	Object Oriented Programming with C++	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-I	DSE (PBL)	3	-	-	-	3				100
TMA-316	Discrete Structures and Combinatorics	DSC	3	3	-	-	3	25	25	50	100
PCS308	Logic Design and Computer Organization Lab	DSC	1	-	-	2	2	25	25	50	100
PCS302	Data Structures Lab	DSC	1	-	-	2	2	25	25	50	100
PCS307	OOPS with C++ Lab	DSC	1	-	-	2	2	25	25	50	100
XCS301	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE300	Practical for Employability Skill Enhancement	SEC	1	-	-	2	2	25	25	100	100
SCS301	MOOCS Seminar	VAC	1	-	-	-	-	-	-	100	100
GP-301	General Proficiency	SEC	1	-	-	-		100	-	-	100

COURSE CODE	COURSE NAME
TCS-333	Cyber Security and Privacy
TCS-334	Introduction to Internet of Things
TCS-335	Cloud Computing

B.Tech (Computer Science and Engineering-AI/ML Specialization)

SEMESTER: III

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE : EVALUATION			
COURSE			Credits	L	T	P		CIE	MSE	ESE	Total
Code	Title	Component									
TCS-308	Logic Design and Computer Organization	DSC	3	3	-	-	3	25	25	50	100
TCS-302	Data Structures with C	DSC (PBL)	3	3	-	-	3				150
TCS-346	Python Programming	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-I	DSE (PBL)	3	3	-	-	3				150
TCS-364	Fundamentals of AI and ML	DSC	3	3	-	-	3	25	25	50	100
PCS-308	Logic Design and Computer Organization Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-302	Data Structures Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-364	AI and ML Lab using Python	DSC	1	-	-	2	2	25	25	50	100
XCS-301	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE300	Practical for Employability Skill Enhancement	SEC	1	-	-	2	2	25	25	100	100
SCS301	MOOCS Seminar	VAC	1	-	-	-	-	-	-	100	100
GP-301	General Proficiency	SEC	1	-	-	-		100	-	-	100

DISCIPLINE SPECIFIC ELECTIVE-I

COURSE CODE	COURSE NAME
TCS-344	Probability and Random Process
TCS-351	Fundamental of Cloud Computing and Bigdata
TCS-392	Introduction to Cryptography
TCS-331	Fundamental of IoT
TCS-332	Fundamentals of Information Security and Block Chain

B.Tech (Computer Science and Engineering-AI/DS Specialization)

SEMESTER: III

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE : EVALUATION			
COURSE			Credits	L	T	P		CIE	MSE	ESE	Total
Code	Title	Component									
TCS-308	Logic Design and Computer Organization	DSC	3	3	-	-	3	25	25	50	100
TCS-302	Data Structures with C	DSC (PBL)	3	3	-	-	3				150
TCS-307	Object Oriented Programming with C++	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-I	DSE (PBL)	3	3	-	-	3				150
TCS-343	Mathematical Foundations for Artificial Intelligence	DSC	3	3	-	-	3	25	25	50	100
PCS-308	Logic Design and Computer Organization Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-302	Data Structures Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-307	OOPS with C++ Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-301	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-300	Practical for Employability Skill Enhancement	SEC	1	-	-	2	2	25	25	100	100
SCS301	MOOCS Seminar	VAC	1	-	-	-	-	-	-	100	100
GP-301	General Proficiency	SEC	1	-	-	-		100	-	-	100
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DISCIPLINE SPECIFIC ELECTIVE-I

COURSE CODE	COURSE NAME
TCS-342	Introduction to Statistical Data Science
TCS-346	Python Programming
TCS-392	Introduction to Cryptography
TCS-331	Fundamental of IoT
TCS-332	Fundamentals of Information Security and Block Chain

B.Tech (Computer Science and Engineering-Cyber Security Specialization)

SEMESTER: III

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE : EVALUATION			
COURSE			Credits	L	T	P		CIE	MSE	ESE	Total
Code	Title	Component									
TCS-308	Logic Design and Computer Organization	DSC	3	3	-	-	3	25	25	50	100
TCS-302	Data Structures with C	DSC (PBL)	3	3	-	-	3				150
TCS-307	Object Oriented Programming with C++	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-I	DSE (PBL)	3	3	-	-	3				150
TMA-316	Discrete Structures and Combinatorics	DSC	3	3	-	-	3	25	25	50	100
PCS-308	Logic Design and Computer Organization Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-302	Data Structures Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-307	OOPS with C++ Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-301	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-300	Practical for Employability Skill Enhancement	SEC	1	-	-	2	2	25	25	100	100
SCS-301	MOOCS Seminar	VAC	1	-	-	-	-	-	-	100	100
GP-301	General Proficiency	SEC	1	-	-	-		100	-	-	100

DISCIPLINE SPECIFIC ELECTIVE-I

COURSE CODE	COURSE NAME
TCS-332	Fundamentals of Information Security and Block Chain
TCS-324	Information Security Foundations
TCS-351	Fundamental of Cloud Computing and Bigdata
TCS-392	Introduction to Cryptography
TCS-331	Fundamental of IoT
TCS-346	Python Programming

B.Tech (Computer Science and Engineering-Core)

SEMESTER: V

COURSE MODULE				TEACHING PERIODS				WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P	Contact Hours	CIE	MSE	SEE	Total
Code	Title	Component									
TCS-509	Machine Learning	DSC	3	3	-	-	3	25	25	50	100
TCS-502	Operating Systems	DSC (PBL)	3	3	-	-	3				150
TCS-503	Data Base Management Systems	DSC (PBL)	3	3	-	-	3				150
TCS-514	Computer Networks-I	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-III	DSE	3	3	-	-	3	25	25	50	100
PCS-502	Operating Systems Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-503	DBMS Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-514	Computer Networks-I Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-501	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-500	Practical for Employability Skill Development	SEC	1	-	-	2	2	25	25	50	100
SCS-501	MOOCS Seminar	VAC	1	-	-	-		-	-	100	100
GP-501	General Proficiency	SEC	1	-	-	-		-	-	100	100
Mandatory Non-Graded Course											
	Indian Knowledge System	MNG	2	2	-	-	2	-	-	100	100
								Qualified / Non-Qualified			

DISCIPLINE SPECIFIC ELECTIVE-III

COURSE CODE	COURSE NAME
TCS-584	Foundations of Quantum Computing
TCS-552	Cloud Based Application Development and Management
TCS-571	Bigdata Visualization
TCS-531	Communication Model and Protocols
TCS-521	User Interface Design
TCS-591	Computer System Security
TCS-593	Deep Learning Fundamentals
TCS-595	Security Audit and Compliance-I

B.Tech (Computer Science and Engineering-Core)
(If Student Chooses Elective Through Swayam)

SEMESTER: V

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P		CIE	MSE	SEE	Total
Code	Title	Component									
TCS-509	Machine Learning	DSC	3	3	-	-	3	25	25	50	100
TCS-502	Operating Systems	DSC (PBL)	3	3	-	-	3				150
TCS-503	Data Base Management Systems	DSC (PBL)	3	3	-	-	3				150
TCS-514	Computer Networks-I	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-III	DSE	3	3	-	-	-	-	-	-	100
PCS-502	Operating Systems Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-503	DBMS Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-514	Computer Networks-I Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-501	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-500	Practical for Employability Skill Development	SEC	1	-	-	2	2	25	25	50	100
SCS-501	MOOCS Seminar	VAC	1	-	-	-		-	-	100	100
GP-501	General Proficiency	SEC	1	-	-	-		-	-	100	100
Mandatory Non-Graded Course											
	Indian Knowledge System	MNG	2	2	-	-	2	-	-	100	100
											Qualified / Non-Qualified

COURSE CODE	COURSE NAME
TCS-581	Big Data Computing
TCS-582	Ethical Hacking
TCS-583	Deep Learning

B.Tech (Computer Science and Engineering-AI/ML Specialization)

SEMESTER: V

COURSE MODULE				TEACHING PERIODS				WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P	Contact Hours	CIE	MSE	SEE	Total
Code	Title	Component									
TCS-564	Natural Language Processing and Computer Vision	DSC	3	3	-	-	3	25	25	50	100
TCS-502	Operating Systems	DSC (PBL)	3	3	-	-	3				150
TCS-503	Data Base Management Systems	DSC (PBL)	3	3	-	-	3				150
TCS-511	Computer Networks	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-III	DSE	3	3	-	-	3	25	25	50	100
PCS-564	Natural Language Processing and Computer Vision Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-503	DBMS Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-511 (S)	Operating System and Computer Networks Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-501	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-500	Practical for Employability Skill Development	SEC	1	-	-	2	2	25	25	50	100
SCS-501	MOOCS Seminar	VAC	1	-	-	-		-	-	100	100
GP-501	General Proficiency	SEC	1	-	-	-		-	-	100	100
Mandatory Non-Graded Course											
	Indian Knowledge System	MNG	2	2	-	-	2	-	-	100	100
								Qualified / Non-Qualified			

DISCIPLINE SPECIFIC ELECTIVE-III

COURSE CODE	COURSE NAME
TCS-584	Foundations of Quantum Computing
TCS-545	Reinforcement Learning
TCS-543	Knowledge Representation
TCS-552	Cloud Based Application Development and Management
TCS-571	Bigdata Visualization
TCS-531	Communication Model and Protocols
TCS-521	User Interface Design
TCS-591	Computer System security
TCS-595	Security Audit and Compliance-I

B.Tech (Computer Science and Engineering-AI/DS Specialization)

SEMESTER: V

COURSE MODULE				TEACHING PERIODS			WEIGHTAGE:EVALUATION				
COURSE			Credits	L	T	P	Contact Hours	CIE	MSE	SEE	Total
Code	Title	Component									
TCS-562	Introduction to Artificial Intelligence and Data Science	DSC	3	3	-	-	3	25	25	50	100
TCS-502	Operating Systems	DSC (PBL)	3	3	-	-	3				150
TCS-503	Data Base Management Systems	DSC (PBL)	3	3	-	-	3				150
TCS-511	Computer Networks	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-III	DSE	3	3	-	-	3	25	25	50	100
PCS-562	Introduction to Artificial Intelligence and Data Science Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-503	DBMS Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-511 (S)	Operating System and Computer Networks Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-501	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-500	Practical for Employability Skill Development	SEC	1	-	-	2	2	25	25	50	100
SCS-501	MOOCS Seminar	VAC	1	-	-	-		-	-	100	100
GP-501	General Proficiency	SEC	1	-	-	-		-	-	100	100
Mandatory Non-Graded Course											
	Indian Knowledge System	MNG	2	2	-	-	2	-	-	100	100
								Qualified / Non-Qualified			

DISCIPLINE SPECIFIC ELECTIVE-III

COURSE CODE	COURSE NAME
TCS-584	Foundations of Quantum Computing
TCS-563	Multi-Modal Data Processing and Learning
TCS-549	Data Science: Visualization with Tableau Specialization
TCS-552	Cloud Based Application Development and Management
TCS-571	Bigdata Visualization
TCS-531	Communication Model and Protocols
TCS-521	User Interface Design
TCS-591	Computer System Security
TCS-546	Advanced Python Programming
TCS-595	Security Audit and Compliance-I

B.Tech (Computer Science and Engineering-Cyber Security Specialization)

SEMESTER: V

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P		CIE	MSE	SEE	Total
Code	Title	Component									
TCS-597	Computer System Security	DSC	3	3	-	-	3	25	25	50	100
TCS-502	Operating Systems	DSC (PBL)	3	3	-	-	3				150
TCS-503	Data Base Management Systems	DSC (PBL)	3	3	-	-	3				150
TCS-511	Computer Networks	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective-III	DSE	3	3	-	-	3	25	25	50	100
PCS-597	Computer System Security Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-503	DBMS Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-511 (S)	Operating System and Computer Networks Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-501	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-500	Practical for Employability Skill Development	SEC	1	-	-	2	2	25	25	50	100
SCS-501	MOOCS Seminar	VAC	1	-	-	-		-	-	100	100
GP-501	General Proficiency	SEC	1	-	-	-		-	-	100	100
Mandatory Non-Graded Course											
	Indian Knowledge System	MNG	2	2	-	-	2	-	-	100	100
								Qualified / Non-Qualified			

DISCIPLINE SPECIFIC ELECTIVE-III

COURSE CODE	COURSE NAME
TCS-584	Foundations of Quantum Computing
TCS-592	Blockchain Technology and its application
TCS-509	Machine Learning
TCS-552	Cloud Based Application Development and Management
TCS-571	Bigdata Visualization
TCS-531	Communication Model and Protocols
TCS-521	User Interface Design
TCS-595	Security Audit and Compliance-I

B. Tech (Computer Science and Engineering - Core)

SEMESTER: VII

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE: EVALUATION			
COURSE			Credits	L	T	P		CWA	MSE	ESE	Total
Code	Title	Component									
TIT-704	Cryptography and Network Security	CC	3	3	-	-	3	25	25	50	100
TCS-703	Computer Networks-II	CC	3	3	-	-	3	25	25	50	100
TCS-704	Advanced Computer Architecture	CC	3	3	-	-	3	25	25	50	100
	Elective-V	CC	3	3	-	-	3	25	25	50	100
TCS-756	Human computer Interaction	DE/ IE	3	-	-	-	iLearn	25	25	50	100
SCS-701	Seminar on Industrial Interaction	SM	1	-	-	-		-	-	100	100
CSP-701	Major Project- Phase 1	PJ	2	-	-	-		-	-	100	100
GP-701	General Proficiency	GP	1	-	-	-		-	-	100	100
	Total		19	15	-	-		125	125	550	800

ELECTIVE-V

COURSE CODE	COURSE NAME
TCS-706	Artificial Intelligence
TCS-795	Security Audit and Compliance-II
Swayam Course	
TCS-711	Introduction to Quantum Computing: Quantum Algorithms and Qiskit
TCS-712	Programming with Generative AI
TCS-713	Deep Learning for Computer Vision

B.Tech (Computer Science and Engineering-AI/MLSpecialization)

SEMESTER: VII

COURSE MODULE				TEACHING PERIODS			Contact Hours	WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P		CWA	MSE	ESE	Total
Code	Title	Component									
TIT-704	Cryptography and Network Security	CC	3	3	-	-	3	25	25	50	100
TCS-703	Computer Networks-II	CC	3	3	-	-	3	25	25	50	100
TCS-704	Advanced Computer Architecture	CC	3	3	-	-	3	25	25	50	100
TCS-756	Human Computer Interaction	CC	3	3	-	-	Online	25	25	50	100
	Elective-V	DE/ IE	3	3	-	-	3	25	25	50	100
SCS-701	Seminar on Industrial Interaction	SM	1	-	-	-		-	-	100	100
CSP-701	Major Project- Phase 1	PJ	2	-	-	-		-	-	100	100
GP-701	General Proficiency	GP	1	-	-	-		-	-	100	100
Total			19	15	-	-		125	125	550	800

ELECTIVE-V

Course Code	Course Name
TCS-722	Data Warehousing and Data Mining
TCS-795	Security Audit and Compliance-II
Swayam Course	
TCS-711	Introduction to Quantum Computing: Quantum Algorithms and Qiskit
TCS-712	Programming with Generative AI
TCS-713	Deep Learning for Computer Vision

B.Tech (Computer Science and Engineering-Integrated)

SEMESTER: IX

COURSE MODULE				TEACHING PERIODS				WEIGHTAGE:EVALUATION			
COURSE			Credits	L	T	P	Contact Hours	CIE	MSE	SEE	Total
Code	Title	Component									
TCS-509	Machine Learning	DSC	3	3	-	-	3	25	25	50	100
TCS-502	Operating Systems	DSC (PBL)	3	3	-	-	3				150
TCS-503	Data Base Management Systems	DSC (PBL)	3	3	-	-	3				150
TCS-514	Computer Networks-I	DSC	3	3	-	-	3	25	25	50	100
	Discipline Specific Elective	DSE	3	3	-	-	3	25	25	50	100
PCS-506	Operating Systems Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-503	DBMS Lab	DSC	1	-	-	2	2	25	25	50	100
PCS-514	Computer Networks-I Lab	DSC	1	-	-	2	2	25	25	50	100
XCS-501	Career Skills	SEC	1	1	-	-	2	25	25	50	100
PESE-500	Practical for Employability Skill Development	SEC	1	-	-	2	2	25	25	50	100
SCS-901	MOOCS Seminar	VAC	1	-	-	-		-	-	100	100
GP-901	General Proficiency	SEC	1	-	-	-		-	-	100	100
Mandatory Non-Graded Course											
	Indian Knowledge System	MNG	2	2	-	-	2	-	-	100	100
								Qualified / Non-Qualified			

DISCIPLINE SPECIFIC ELECTIVE

COURSE CODE	COURSE NAME
TCS-584	Foundations of Quantum Computing
TCS-552	Cloud Based Application Development and Management
TCS-571	Bigdata Visualization
TCS-531	Communication Model and Protocols
TCS-521	User Interface Design
TCS-591	Computer System security
TCS-593	Deep Learning Fundamentals
	Swayam Course

Diploma (CS)

Semester-III

S.NO.	SUB CODE	SUBJECT	L	T	P	C	Contact Hours	MTE	TA	ESE	Total
	Theory										
1.	DTCS301	Object Oriented Programming	3	0	0	3	3	25	25	50	100
2.	DTCS302	Digital Logic	3	0	0	3	3	25	25	50	100
3.	DTCS303	Relational Database Management Systems	3	0	0	3	3	25	25	50	100
4.	DTCS304	Software Engineering	3	0	0	3	3	25	25	50	100
5.	DTMA305	Applied Mathematics	3	0	0	3	3	25	25	50	100
	Labs										
6.	DPCS301	Object Oriented Programming Lab	0	0	4	2	4	25	25	50	100
7.	DPCS303	Relational Database Management Systems Lab	0	0	4	2	4	25	25	50	100
8.	DPDP314	Development of Life Skills-II	0	0	4	2	4	25	25	50	100
9.	DSCS301	Seminar	0	0	1	1	1		-	100	100
10.	DGP301	General Proficiency	-	-	-	1	-	-	100	-	100
		Grand Total	15	00	11	23	28	200	300	500	1000

Diploma (CSE)
SEMESTER V

S.NO.	SUB CODE	SUBJECT	L	T	P	C	Contact Hours	MTE	TA	ESE	Total
		Theory									
1.	DTCS501	Microprocessor and Programming	3	0	0	3	3	25	25	50	100
2.	DTCS502	Multimedia and Animation Technique	3	0	0	3	3	25	25	50	100
3.	DTCS503	Network management and administration	3	0	0	3	3	25	25	50	100
4.	DTCS504	Operating System	3	0	0	3	3	25	25	50	100
5.	DTCS505	Java Programming	3	0	0	3	3	25	25	50	100
		Labs									
6.	DPCS501	Microprocessor and Programming Lab	0	0	4	2	4	25	25	50	100
7.	DPCS503	Network Management and Administration Lab	0	0	4	2	4	25	25	50	100
8.	DPCS505	Java Programming Lab	0	0	4	2	4	25	25	50	100
9.	DSCS501	Seminar	0	0	1	1	1		-	100	100
10.	DGP501	General Proficiency	-	-	-	1	-	-	100	-	100
		Grand Total	15	00	13	23	28	200	300	500	1000

M. Tech (Computer Science and Engineering)

SEMESTER: I

COURSE MODULE			TEACHING PERIODS			WEIGHTAGE:EVALUATION			
COURSE		Credits	L	T	P	CWA	MSE	ESE	Total
Code	Title								
MCS-141	Data Structures and Algorithms	3	3	-	-	25	25	50	100
MCS-142	Cryptography and Network Security	3	3	-	-	25	25	50	100
MCS-143	Artificial Intelligence	3	3	-	-	25	25	50	100
	Discipline Specific Elective I/ Generic Elective I	3	3	-	-	25	25	50	100
	Discipline Specific Elective II	3	3	-	-	25	25	50	100
MCS-164	Computing Lab-I	2	-	-	4	25	25	50	100
MCS-114	Seminar	2	-	-	-	-	-	100	100
GP-101	General Proficiency	1	-	-	-	-	-	-	100
	Total	20							

DISCIPLINESPECIFIC ELECTIVE COURSES:

ELECTIVE NO.	ELECTIVES (CODE WITH SUBJECT NAME)	
Discipline Specific Elective-I	MCS-124	Data Ware Housing and Data Mining
	MCS-125	Cloud Computing
	MCS-134	Internet of Things
	MCS-141	Wireless Sensor Networks
Discipline Specific Elective-II	MCS-131	Applied Data Science
	MCS-132	Applied Cyber Security
	MCS-129	Big Data Analytics

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SEMESTER: III

COURSE MODULE			TEACHING PERIODS			WEIGHTAGE:EVALUATION			
COURSE		Credits	L	T	P	CWA	MSE	ESE	Total
Code	Title								
MCS-301	Soft Computing	3	3	-	-	25	25	50	100
MCS-300	Dissertation-Phase I	8	-	-	-	50	-	50	100
MCS-311	Seminar	1	-	-	-	-	-	100	100
GP-301	General Proficiency	1	-	-	-	-	-	-	100