

STRUCTURE OF THE SYLLABUS FOR 2 YEAR PG PROGRAMME

ROYAL SCHOOL OF INFORMATION TECHNOLOGY

MCA

Semester-I					
S.N	Subject Code	Names of subjects	LEVEL	C	L-T-P
1	CAP054C101	Mathematical Foundation for Computer Science	400	4	3-1-0
2	CAP054C102	Advanced Data Structures and Algorithms	499	3	3-0-0
3	CAP054C103	Database Management and Data Warehousing	400	3	3-0-0
4	CAP054C112	Advanced Data Structures and Algorithms Lab	499	1	0-0-2
5	CAP054C113	Database Management and Data Warehousing Lab	400	1	0-0-2
6	CAP054C104 / CAP054C105/ CAP054C106/	Artificial Intelligence/ Data Mining / Digital Image Processing	500	4	4-0-0
7	CAP054C107 / CAP054C108 / CAP054C109/	Introduction to Deep Learning / Statistical Computing /Machine Learning Applications	500	4	4-0-0
8	MOOCS	One 8-Week Course from SWAYAM /MOOCS as per the Department Directives	400	2	-
TOTAL				22	

Semester-II					
S.N	Subject Code	Names of subjects	LEVEL	C	L-T-P
1	CAP054C201	Web Technology	499	3	3-0-0
2	CAP054C202	System Administration	499	3	3-0-0
3	CAP054C203	Internet Protocols and Network Design	500	3	3-0-0
4	CAP054C211	Web Technology Lab	499	1	0-0-2
5	CAP054C212	System Administration Lab	499	1	0-0-2
6	CAP054C213	Internet Protocols and Network Design Lab	500	1	0-0-2
7	CAP054C204/ CAP054C205/ CAP054C206	Natural Language Processing / Big Data Analytics / Remote Sensing and GIS	500	4	4-0-0
8	CAP054C207/ CAP054C208/ CAP054C209	Computer Vision / Cloud Computing for Big Data/ Machine Vision	500	4	4-0-0
6	MOOCS	One 8-Week Course from SWAYAM /MOOCS as per the Department Directives	400	2	-
TOTAL				22	

2nd Year Course Structure (Course Work + Research)

Semester-III					
S.N	Subject Code	Names of subjects	Level	C	L-T-P
1.	CAP054C301	Software Project Management	600	3	3-0-0
2.	CAP054C302	Network Security and Cryptography	600	3	3-0-0
3.	CAP054C311	Software Project Management Lab	600	1	0-0-2
4.	CAP054C312	Network Security and Cryptography Lab	600	1	0-0-2
5.	CAP054C303/ CAP054C304	Internet of Things /Embedded Systems	600	4	3-1-0
5.	MOOCS	One 8-Week Course from SWAYAM /MOOCS as per the Department Directives	600	2	-
6.	CAP054C321	Dissertation-I	600	8	-
TOTAL				22	

Semester-IV					
S.N	Subject Code	Names of subjects	Level	C	L-T-P
1.	CAP054C401/ CAP054C402	Quantum Computing / Blockchain Technologies	600	4	3-1-0
2.	CAP054C403/ CAP054C404	Soft Computing / Edge Computing	600	4	3-1-0
3.	MOOCS	One 8-Week Course from SWAYAM /MOOCS as per the Department Directives	600	2	-
4.	CAP054C421	Dissertation-II	600	12	-
TOTAL				22	

2nd Year Course Structure (Only Research Work)

Semester-III					
S.N	Subject Code	Names of subjects	Level	C	L-T-P
1.	MOOCS	One 8-Week Course from SWAYAM /MOOCS as per the Department Directives	600	2	-
2.	CAP054C321	Dissertation-I	600	20	-
TOTAL				22	

Semester-IV					
S.N	Subject Code	Names of subjects	Level	C	L-T-P
1.	MOOCS	One 8-Week Course from SWAYAM /MOOCS as per the Department Directives	600	2	-
2.	CAP054C421	Dissertation-II	600	20	-
TOTAL				22	