



Course Code: B504

Course Name: M.Sc. - Computer Science

Course Structure (2016-17)

Faculty of Physical Sciences
Department of Computer Science
M.Sc. - Computer Science

Scheme of Studies and Examination

1st Semester

S No	Course Title	Course Code	Core/ Elective	Teaching Schedule Per Week				Credits	Evaluation Scheme		
				L	T	P	Total		Int.	Ext.	Total
1	Software Engineering Principles	COMP5001	Core	4	1	0	5	4.5	30	70	100
2	Software Architecture	COMP5002	Core	4	1	0	5	4.5	30	70	100
3	Operating Systems & Design	COMP5003	Core	4	1	0	5	4.5	30	70	100
4	Programming Languages	COMP5004	Core	4	1	0	5	4.5	30	70	100
5	Software Engineering Lab	COMP5005	Core	0	0	6	6	3.0	30	70	100
6	Operating System & Design Lab	COMP5006	Core	0	0	6	6	3.0	30	70	100
Total				16	4	12	32	24	180	420	600

2nd Semester

S No	Course Title	Course Code	Core/ Elective	Teaching Schedule Per Week				Credits	Evaluation Scheme		
				L	T	P	Total		Int.	Ext.	Total
1	Object Oriented Software Engineering	COMP5007	Core	4	1	0	5	4.5	30	70	100
2	Design and Analysis of Computer Algorithm	COMP5008	Core	4	1	0	5	4.5	30	70	100
3	Advanced Computer Networks	COMP5009	Core	4	1	0	5	4.5	30	70	100
4	Advanced Database Management Systems	COMP5010	Core	4	1	0	5	4.5	30	70	100
5	Computer Network Lab	COMP5011	Core	0	0	6	6	3.0	30	70	100
6	Advanced DBMS Lab	COMP5012	Core	0	0	6	6	3.0	30	70	100
Total				16	4	12	32	24	180	420	600

3rd Semester

S No	Course Title	Course Code	Core/ Elective	Teaching Schedule Per Week				Credits	Evaluation Scheme		
				L	T	P	Total		Int.	Ext.	Total
1	Software Testing	COMP5013	Core	4	1	0	5	4.5	30	70	100
2	Software Project Management	COMP5014	Core	4	1	0	5	4.5	30	70	100
3	Elective 1	COMP5101 – COMP5107	Elective	4	1	0	5	4.5	30	70	100
4	Elective 2	COMP5108 – COMP5114	Elective	4	1	0	5	4.5	30	70	100
5	Software Testing & Validation Lab	COMP5015	Core	0	0	6	6	3.0	30	70	100
6	Seminar	COMP5115	Elective	0	0	6	6	3.0	30	70	100
Total				16	4	0	32	24	180	420	600

Elective - 1

Code	Subject
COMP5101	Software Reliability
COMP5102	Human Interface Design
COMP5103	Cryptography & Network Security
COMP5104	Data Warehouse & Data Mining
COMP5105	Real Time Systems
COMP5106	Software Reuse
COMP5107	Software Metrics

Elective - 2

Code	Subject
COMP5108	Team Management & Personal Software Process
COMP5109	E-Commerce & ERP
COMP5110	Electronic Data Interchange
COMP5111	E-Business
COMP5112	Decision Support Systems
COMP5113	Client Server Based IT Solutions
COMP5114	Management Information Systems

4th Semester

S No	Course Title	Course Code	Core/ Elective	Teaching Schedule Per Week				Credits	Evaluation Scheme		
				L	T	P	Total		Int.	Ext.	Total
1	Key Topics in Software Engineering	COMP5016	Core	4	1	0	5	4.5	30	70	100
2	Research Methodology	COMP5017	Core	4	1	0	5	4.5	30	70	100
3	Major Project / Dissertation	COMP5116	Elective	0	0	20	20	10	100	300	400
Total				8	2	20	30	19	160	440	600
Grand Total								91			2400