Department of Computer Science

School of Engineering & Technology
Islamic University of Science & Technology
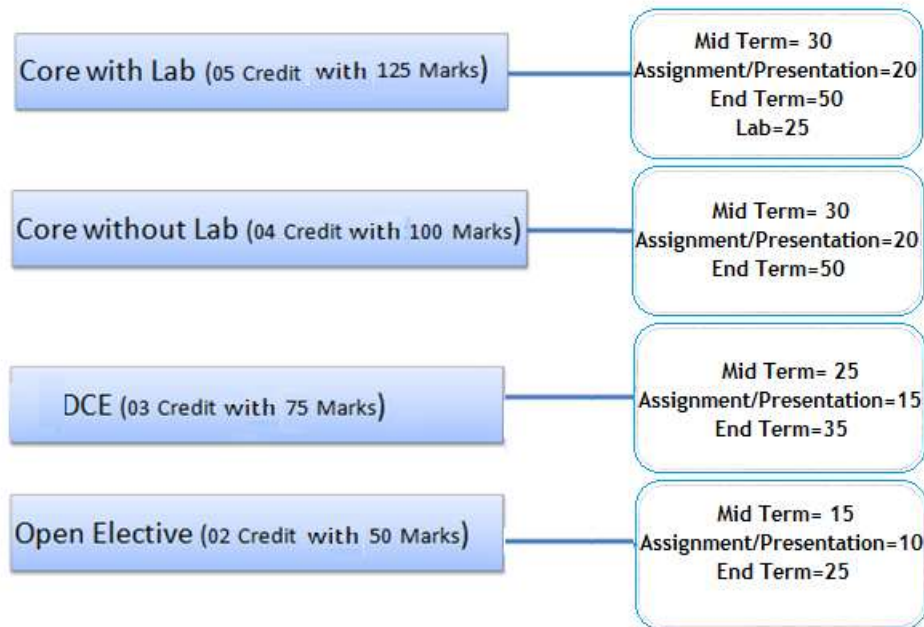Kashmir, J&K – 192122

Examination Overview

MCA & M.Sc. IT

Fig.1.0: Examination Overview

Continuous assessment (Internal) comprises of two components i.e. Midterm and Assignment/Presentation. Midterm component is Multiple Choice Question (MCQ) based examination conducted after the completion of minimum 40% of the syllabus in each course. The Assignment/presentation component is based on assignment, presentation, viva, and attendance distributed proportionately.

For the End Term examination, the question paper is arranged externally or the course instructor is asked to submit two sets of question papers confidentially in the department out of which one is being selected by the examination wing.

The marks breakup for each semester courses (active) has been given below. Note that the qualifying percentage for Mid-Term Exam and Assignment/presentation in aggregate is 50% and that for End Term is 40%.

Department of Computer Science

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Masters in Information Technology (M.Sc. IT)

MSc IT- 1st Semester

Course Code	Course Name	Course Category	Credit	Course Max Marks	Component Name	Max Marks	Component Category
MIT_1T2_C	Database Management System	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
					PRACTICAL	25	EXTERNAL
MIT_1T3_C	Discrete Mathematics	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MIT_1E3_DCE	E-Commerce	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_1E1_DCE	Digital Electronics	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_1T1_C	Programming Concepts in C/C++	Core	5	125	PRACTICAL	25	EXTERNAL
					MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MIT_1T4_C	Technical Communication	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MIT_1E4_DCE	Fundamentals of IT	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL

Department of Computer Science

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Kashmir, J&K – 192122

Masters in Information Technology (M.Sc. IT)

MSc IT 2nd Semester

Course Code	Course Name	Course Category	Credit	Course Max Marks	Component Name	Max Marks	Component Category
MIT-2T1-C	Data Structures	Core	5	125	PRACTICAL	25	EXTERNAL
					MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MIT-2T2-C	Computer Graphics	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
					PRACTICAL	25	EXTERNAL
MIT-2T3-C	Software Engineering	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MIT-2T4-C	Computer Organization and Architecture	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MIT-2E1-DCE	Operational Research	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT-2E2-DCE	Open Source Data Analysis Technologies	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT-2E3-DCE	Information Systems	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT-2E4-DCE	Elements of Business Management	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL

Department of Computer Science

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Kashmir, J&K – 192122

Masters in Information Technology (M.Sc. IT)

MSc IT 3rd Semester

Course Code	Course Name	Course Category	Credit	Course Max Marks	Component Name	Max Marks	Component Category
MIT_3T1_C	Java Programming	Core	5	125	Mid_Term	30	INTERNAL
					Assgn_Attd	20	
					End_Term	50	EXTERNAL
					Practical_Exam	25	EXTERNAL
MIT_3E3_DCE	Soft Computing	Discipline centric Elective	3	75	ASST_PRESEN	15	INTERNAL
					MID_TERM_I	25	
					END_TERM_NEW	35	EXTERNAL
MIT_3E4_DCE	Parallel and Distributed Computing	Discipline centric Elective	3	75	END_TERM_NEW	35	EXTERNAL
					ASST_PRESEN	15	INTERNAL
					MID_TERM_I	25	
MIT_3T2_C	Design and Analysis of Algorithm	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					PRACTICAL	25	EXTERNAL
					END_TERM_NEW	50	EXTERNAL
MIT_3E1_DCE	Programming Languages and Paradigms	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_3E3_DCE	Soft Computing	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM	35	EXTERNAL
MIT_3T3_C	Data Communication and Computer Networks	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL

Department of Computer Science

School of Engineering & Technology
Islamic University of Science & Technology
Kashmir, J&K – 192122

Masters in Information Technology (M.Sc. IT)

MSc IT 3rd Semester (Continued)

Course Code	Course Name	Course Category	Credit	Course Max Marks	Component Name	Max Marks	Component Category
MIT_3T4_C	Operating System	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MIT_3E6_DCE	Wireless Communication	Discipline centric Elective	3	75	ASST_PRESEN	15	INTERNAL
					MID_TERM_I	25	
					END_TERM	35	EXTERNAL
MIT_3E2_DCE	Open Source Web Technology	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_3E5_DCE	Multimedia & Image Authoring	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL

MSc IT Semester 4th

Course Code	Course Name	Course Category	Credit	Course Max Marks	Component Name	Max Marks	Component Category
MIT_4T1_C	Research Methodology	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM	50	EXTERNAL
MIT_4T2_C	Theory of Computation & Formal Languages.	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM	50	EXTERNAL
MIT_4T3_C	Major Project Work	Core	10	250	INTERNAL	150	INTERNAL
					LAB_ PRACTICAL_ VIVA_ THESIS	100	EXTERNAL

Department of Computer Science

School of Engineering & Technology
Islamic University of Science & Technology
Kashmir, J&K – 192122

Masters in Information Technology (M.Sc. IT)

MSc IT 4th Semester (Continued)

Course Code	Course Name	Course Category	Credit	Course Max Marks	Component Name	Max Marks	Component Category
MIT_4E1_DCE	Bio Informatics	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_4T1_C	Cloud and Grid Computing	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_4E3_DCE	Information Security and Networks	Discipline centric Elective	3	75	END_TERM	35	EXTERNAL
					MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
MIT_4E4_DCE	Pattern Recognition	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_4E8_DCE	Dot Net	Discipline centric Elective	3	75	ASST_PRESEN	15	INTERNAL
					MID_TERM_I	25	
					END_TERM_NEW	35	EXTERNAL
MIT_4E10_DCE	Advanced Java	Discipline centric Elective	3	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM	50	EXTERNAL
MIT_4E5_DCE	Data Warehousing	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_4E6_DCE	Organizational Behavior	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_4E7_DCE	Machine Learning	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MIT_4E9_DCE	Data Mining	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL

Masters in Computer Application (MCA)

MCA- 1st Semester

Course Code	Course Name	Course Category	Credit	Course Max Marks	Component Name	Max Marks	Component Category
MCA_1T1_C	Programming Concepts in C/C++	Core	5	125	PRACTICAL	25	EXTERNAL
					MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MCA_1T2_C	Technical Communication	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
					PRACTICAL	25	EXTERNAL
MCA_1T3_C	Discrete Mathematics	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MCA-1B1-BC	Computer Fundamentals	Bridge Course	2	50	MID_TERM_I	15	INTERNAL
					ASST_PRESEN	10	
					END_TERM_NEW	25	EXTERNAL
DOCS_OE_02	Programming Concepts in C	Open Elective	2	50	MID_TERM_I	15	INTERNAL
					ASST_PRESEN	10	
					END_TERM_NEW	25	EXTERNAL
DOCS_OE_03	Computer Networks	Open Elective	2	50	ASST_PRESEN	10	INTERNAL
					MID_TERM_I	15	
					END_TERM_NEW	25	EXTERNAL
DOCS_OE_04	Information Management	Open Elective	2	50	ASST_PRESEN	10	INTERNAL
					MID_TERM_I	15	
					END_TERM_NEW	25	EXTERNAL

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School of Engineering & Technology
Islamic University of Science & Technology
Kashmir, J&K – 192122

Masters in Computer Application (MCA)

MCA- 1st Semester (Continued)

Course Code	Course Name	Course Category	Credit	Course Max Marks	Component Name	Max Marks	Component Category
MCA_1T4_C	Computer Organization and Architecture	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MCA_1E4_DCE	E Commerce	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA_1E3_DCE	Web technologies	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA_1E2_DCE	Management Information System	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA_1E1_DCE	Programming Languages & Paradigms	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL

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MCA- 2nd Semester

Course Code	Course Name	Course Category	Credit	Course M.Marks	Component Name	Max Marks	Component Category
MCA_2T1_C	Data Structures	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
					Practical	25	EXTERNAL
MCA_2T2_C	Database Management System	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
					Practical	25	EXTERNAL
MCA_2T3_C	Software Engineering	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM	50	EXTERNAL
MCA_2T4_C	Operating System	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MCA-2E1-DCE	Advanced Computer Organization & Architecture	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-2E2-DCE	Operation Research	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-2E3-DCE	Microprocessor and Assembly Language Programming	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-2E4-DCE	Modelling and Simulation	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-2E5-DCE	Computer Graphics	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-2E6-DCE	Numerical And Statistical Computing	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-2E7-DCE	Java Programming	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL

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Masters in Computer Application (MCA)

MCA 3rd Semester

Course Code	Course Name	Course Category	Credit	Course M.Marks	Component Name	Max Marks	Component Category
MCA_3T1_C	Analysis and Design of Algorithms	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM	50	EXTERNAL
					Practical	25	EXTERNAL
MCA_3T2_C	Object Oriented Analysis and Design	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM	50	EXTERNAL
					Practical	25	EXTERNAL
MCA_3T3_C	Data communication and Computer Networks	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM	50	EXTERNAL
MCA_3T4_C	Artificial Intelligence	Core	4	100	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MCA-3E1-DCE	Advanced Operating System	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-3E4-DCE	Softcomputing	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-3E9-DCE	Data Warehousing	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-3E10-DCE	Open Source technologies	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL

Masters in Computer Application (MCA)

MCA 4ᵗʰ Semester

Course Code	Course Name	Course Category	Credit	Course M.Marks	Component Name	Max Marks	Component Category
MCA_4T1_C	Theory of Formal Languages	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MCA_4T2_C	Big data Analysis	Core	5	125	MID_TERM_I	30	INTERNAL
					ASST_PRESEN	20	
					END_TERM_NEW	50	EXTERNAL
MCA_4T3_C	Major Project Work	Core	10	250	INTERNAL	150	INTERNAL
					LAB_PRACTICAL_VIVA_THESIS	100	EXTERNAL
MCA-4E1-DCE	Wireless Communication	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-4E2-DCE	Cloud and Grid Computing	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-4E3-DCE	Information Security and Networks	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-4E6-DCE	Machine Learning /Data Science	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL
MCA-4E8-DCE	Advanced Java	Discipline centric Elective	3	75	MID_TERM_I	25	INTERNAL
					ASST_PRESEN	15	
					END_TERM_NEW	35	EXTERNAL