Post Graduate Department of Computer Sciences

University of Kashmir, Srinagar-190006

Notes

Minutes of the BOS meeting held on 10-11-2018 at 11:30 AM

A Board of Studies (BOS) meeting was held on November 10, 2018 at 11:30 AM under the chairmanship of the Head of the Department of Computer Science and following were present.

1.	Prof. M. Arif Wani ...in chair	HOD Computer Science
2.	Dr. Javed Parvez	Faculty, Main Campus
3.	Dr. Manzoor Chachoo	Faculty, Main Campus
4.	Dr. Muheet Butt	Faculty Main Campus
5.	Dr. Javaid Iqbal	Faculty Main Campus
6.	Dr. Rana Hashmy	Faculty Main Campus
7.	Dr. Sajad M Khan	Faculty Main Campus
8.	Dr. Wasim Bhat	Faculty North Campus
9.	Dr. Fasel Qadir	Faculty North Campus
10.	Dr. Umar Farooq	Faculty North Campus
11.	Dr. Faheem Masoodi	Faculty Main Campus
12.	Dr. Sajid Yousuf Bhat	Faculty Main Campus
13.	Mr. Abid Wani	Faculty South Campus
14.	Mr. Mohsin Altaf Wani	Faculty South Campus
15.	Mr. Hilal Khanday	Faculty South Campus
16.	Mr. Mudasir	Faculty South Campus

At the outset the HOD, Department of Computer Sciences welcomed all the members. The following agenda was put on the table:

1. Course Structure of MCA in light of changes made to CBCS by the University
2. Course Structure of MTech in light of changes made to CBCS by the University

ITEM I

Regarding the marks distribution of MCA and MTech programmes, it was resolved that the department will adopt the university policy of having 20% marks for internal assessment and 80% marks for end semester assessment. This change will be effective from this semester for all batches.

ITEM II

The members discussed threadbare the course structure of MCA degree programme and the following was resolved.

1. In view of the requirement that the number of total core credits units for the MCA programme are to be increased by eight credits units, the members resolved that two credit courses be added to the core component of each of the first four semesters for MCA batch 2018 and onwards.
2. As per new requirement only 8 credit units need to be covered for GE/OE instead of 16 credit units. This requires number of OE & GE courses for the first four semesters to be reduced to only one GE course per semester only.
3. Based on the above decissions, a new course structure and syllabus of MCA degree programme was drafted and approved. The new course structure will be applicable to students of 2018 batch and onwards.

ITEM III

The following two new subjects were added:

a. Multimedia Systems (two credit units) added to core component of MCA 4th semester

b. Wireless and Mobile Computing (four credit units) added to DCE component of MCA 5th semester

ITEM IV

The following three elective subjects were added to M. Tech. degree programme:

1. Embedded Systems (four credit units) for 1st semester
2. Software Reliability Engineering (four credit units) for 2nd semester
3. Network Security (four credit units) for 3rd semester

Meeting ended with vote of thanks to the chair.

Prof. M. Arif Wani
HOD

Dr. Muheet Butt
Scientist-D

Dr. Sajad M Khan
Scientist-B

Dr. Umar Farooq
Assistant Professor

Mr. Abid Wani
Assistant Professor

Mr. Mudasir
Assistant Professor

Dr. Javed Parvez
Assistant Professor

Dr. Javaid Iqbal
Assistant Professor

Dr. Wasim Bhat
Assistant Professor

Dr. Faheem Masoodi
Assistant Professor

Mr. Mohsin Altaf Wani
Assistant Professor

Dr. Manzoor Chachoo
Scientist-D

Dr. Rana Hashmy
Scientist-C

Dr. Fasel Qadir
Assistant Professor

Dr. Sajid Yousuf Bhat
Assistant Professor

Mr. Hilal Khanday
Assistant Professor

Post Graduate Department of Computer Sciences,

The University of Kashmir,
Srinagar - 190006

Curriculum and Evaluation Scheme for Master of Technology in Computer Science

2018 – 2020

Structure of Curriculum for M. Tech. in Computer Science

Semester-I (24 Credit unit Semester)						
Course Code	Course name	Category	Hours / Week			Credits
			L	T	P	
CORE SUBJECTS						
CSE511	Database Management Systems	Core	4	0	0	4
CSE512	Lab Database Management Systems	Core	0	0	4	2
CSE513	Data Structures using C++	Core	4	0	0	4
CSE514	Lab Data Structures using C++	Core	0	0	4	2
CSE515	Artificial Intelligence	Core	4	0	0	4
ELECTIVE SUBJECTS						
CSE516x	Elective 1	Elective	4	0	0	4
CSE516x	Elective 2	Elective	4	0	0	4

List of Elective Subjects:

i) CSE5161 Data Communications
ii) CSE5162 Embedded Systems
iii) CSE5163 Engineering Mathematics

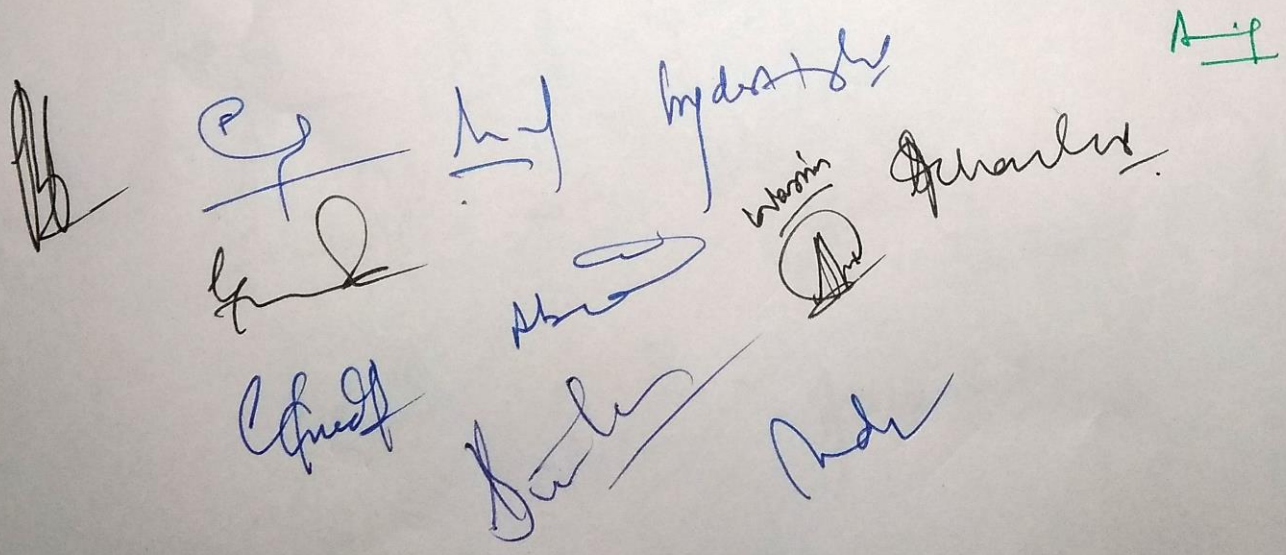
Semester-II (24 Credit unit Semester)						
Course Code	Course name	Category	Hours / Week			Credits
			L	T	P	
CORE SUBJECTS						
CSE521	Network Protocols and Security	Core	4	0	0	4
CSE522	Lab Network Protocols and Security.	Core	0	0	4	2
CSE523	Image Processing	Core	4	0	0	4
CSE524	Lab Image processing	Core	0	0	4	2
CSE525	Machine Learning	Core	4	0	0	4
ELECTIVE SUBJECTS						
CSE526x	Elective 1	Elective	4	0	0	4
CSE526x	Elective 2	Elective	4	0	0	4

List of Elective Subjects:

iv) CSE5261 Algorithms and Complexity

v) CSE5262 Software Reliability Engineering

vi) CSE5263 Optimization Techniques

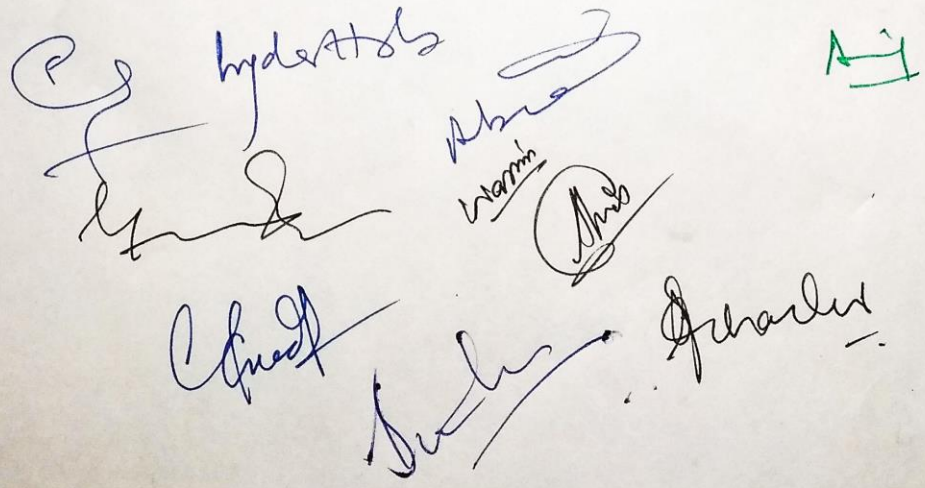


Semester-III (24 Credit unit Semester)						
Course Code	Course name	Category	Hours / Week			Credits
			L	T	P	
CORE SUBJECTS						
CSE531	Minor Project	Core	0	4	0	4
CSE532	Parallel and Distributed Algorithms	Core	4	0	0	4
CSE533	Real Time Operating Systems	Core	4	0	0	4
CSE534	Wireless and Mobile Computing	Core	4	0	0	4
ELECTIVE SUBJECTS						
CSE535x	Elective 1	Elective	4	0	0	4
CSE535x	Elective 2	Elective	4	0	0	4

List of Elective Subjects:

i) CSE5351 Cloud Computing
ii) CSE5352 Network Security
iii) CSE5353 Natural Language Processing

Semester-IV(24 Credit unit Semester)						
Course Code	**Course name**	**Category**	**Hours / Week**			**Credits**
			L	T	P	
CORE SUBJECTS						
CSE541	Major Project Problem Identification	Core	0	2	0	2
CSE542	Major Project Problem Analysis	Core	0	4	0	4
CSE543	Major Project Software Development	Core	0	6	0	6
CSE544	Major Project Research Component	Core	0	6	0	6
CSE545	Major Project Dissertation	Core	0	6	0	6



Post Graduate Department of Computer Sciences,
The University of Kashmir,
Srinagar - 190006

Choice Based Credit System Curriculum for

Master of Computer Applications
(MCA) Programme
2018 – 2020

Semester-I (24 Credit unit Semester)						
Subject Code	Subject name	Subject Category	Hours / Week			Credits
			L	T	P	
	14 Core Credit Units					
MCA18101CR	Programming in C++	Core	3	1	0	4
MCA18102CR	Database Systems	Core	3	1	0	4
MCA18103CR	C++ Lab	Core	0	0	4	2
MCA18104CR	Database Systems Lab	Core	0	0	4	2
MCA18001CR	Technical Communication	Core	2	0	0	2
	8 Discipline Centric Elective Credit Units					
MCA18105DCE	Assembly Language Programming	DCE	3	0	2	4
MCA18106DCE	Discrete Mathematics	DCE	3	1	0	4
MCA18107DCE	Computer Architecture	DCE	3	0	2	4
	2 Generic/Open Elective Credit Units for MCA and 10 non-MCA students					
MCA18001GE	Latex	GE	2	0	0	2

Semester-II (24 Credit unit Semester)						
Subject Code	Subject name	Subject Category	Hours / Week			Credits
			L	T	P	
	14 Core Credit Units					
MCA18201CR	Data Structures using C++	Core	3	1	0	4
MCA18202CR	Numerical Techniques	Core	3	1	0	4
MCA18203CR	Data Structures in C++ Lab	Core	0	0	4	2
MCA18204CR	Numerical Techniques Lab	Core	0	0	4	2
MCA18002CR	Optimization Techniques	Core	2	0	0	2
	8 Discipline Centric Elective Credit Units					
MCA18205DCE	Unix/Linux Programming	DCE	3	0	2	4
MCA18206DCE	Data Communication	DCE	3	0	2	4
MCA18207DCE	Management Information System	DCE	3	1	0	4
	2 Generic/Open Elective Credit Units for MCA and 10 non-MCA students					
MCA18002GE	Matlab	GE	2	0	0	2

Semester-III (24 Credit unit Semester)						
Subject Code	Subject name	Subject Category	Hours / Week			Credits
			L	T	P	
	14 Core Credit Units					
MCA18301CR	Web Programming	Core	3	1	0	4
MCA18302CR	Design and Analysis of Algorithms	Core	3	1	0	4
MCA18303CR	Web Programming Lab	Core	0	0	4	2
MCA18304CR	Algorithms Lab	Core	0	0	4	2
MCA18003CR	Cloud Computing	Core	2	0	0	2
	8 Discipline Centric Elective Credit Units					
MCA18305DCE	Computer Networks	DCE	3	0	2	4
MCA18306DCE	Operating Systems	DCE	3	0	2	4
MCA18307DCE	Software Engineering	DCE	3	1	0	4
	2 Generic/Open Elective Credit Units for MCA and 10 non-MCA students					
MCA18003GE	Python	GE	2	0	0	2

Semester-IV (24 Credit unit Semester)						
Subject Code	Subject Name	Subject Category	Hours / Week			Credits
			L	T	P	
	14 Core Credit Units					
MCA18401CR	Artificial Intelligence	Core	3	1	0	4
MCA18402CR	Computer Graphics	Core	3	1	0	4
MCA18403CR	Artificial Intelligence Lab	Core	0	0	4	2
MCA18404CR	Computer Graphics Lab	Core	0	0	4	2
MCA18004CR	Multimedia Systems	Core	2	0	0	2
	8 Discipline Centric Elective Credit Units					
MCA18405DCE	Network Security	DCE	3	0	2	4
MCA18406DCE	Image Processing	DCE	3	0	2	4
MCA18407DCE	Object Oriented Analysis and Design	DCE	3	1	0	4
	2 Generic/Open Elective Credit Units for MCA and 10 non-MCA students					
MCA18004GE	Advanced Business Systems	GE	2	0	0	2

Semester-V (24 Credit unit Semester)						
Subject Code	Subject Name	Subject Category	Hours / Week			Credits
			L	T	P	
	12 Core Credit Units					
MCA18501CR	Java Programming	Core	3	1	0	4
MCA18502CR	Systems Programming	Core	3	1	0	4
MCA18503CR	Java Programming Lab	Core	0	0	4	2
MCA18504CR	Systems Programming Lab	Core	0	0	4	2
	12 Discipline Centric Elective Credit Units					
MCA18505DCE	Machine Learning	DCE	3	0	2	4
MCA18506DCE	Wireless and Mobile Communication	DCE	3	0	2	4
MCA18507DCE	Theory of Computation	DCE	3	1	0	4
MCA18508DCE	Data Warehousing	DCE	3	1	0	4

Semester-VI (24 Credit unit Semester)						
Subject Code	Subject Name	Subject Category	Hours / Week			Credits
			L	T	P	
	24 Core Credit Units					
MCA18601CR	Project Problem Identification	Core	0	4	0	4
MCA18602CR	Project Problem Analysis	Core	0	4	0	4
MCA18603CR	Project Dissertation	Core	0	4	0	4
MCA18604CR	Project Software Development	Core	0	12	0	12