POST GRADUATE DEPARTMENT OF COMPUTER SCIENCES

University of Kashmir, Srinagar-190006

NAAC Accredited Grade "A+"

NOTES

Minutes of BOS Meeting for MCA Programme held on 17-04-2025 at 10:30 a.m in the Department of Computer Science

A Board of Studies (BOS) meeting was held on 17-04-2025 at 10:30 a.m in the office chamber of Head of the Department regarding framing of Structure and Syllabus for One-Year MCA and Two-Year MCA programmes under NEP 2020 guidelines under the chairmanship of HOD, Computer Science Department.

The following were present:

1.	Prof. Javaid Iqbal	HOD/Chairman in the Chair….
2.	Prof. M Arif Wani	Member
3.	Prof. M. Ashraf Shah	NEP Consultant
4.	Dr. Manzoor Ahmad Chachoo	Member
5.	Dr. Kaiser Javeed Giri	Member
6.	Dr. Sajad M. Khan	Member
7.	Dr. Sajid Yousuf Bhat	Member
8.	Dr. Abid Sarwar	Member
9.	Dr. Umar Farooq	Member (North Campus)
10.	Dr. Abid Hussain Wani	Member (South Campus)
11.	Mr. Kh. Mohmad Shafi	Member (Sr. Scholar)
12.	Mr. Mohmad Azhar Teli	Member (Sr. Scholar)

Item I

In light of the circular regarding the framing of syllabi for P.G. programmes as per NEP 2020 guidelines, issued by the Assistant Registrar (Academic) vide No. F(PG-Syllabus/NEP-2020)Acad/KU/25 dated 25-02-2025, the BOS adopts the eligibility criteria for admission to MCA programmes as follows:-

For Two-Year MCA: -

"Any Graduate with at least 12 credits in Computer Science / applications under CBCS/NEP 2020 Scheme

OR

B.Sc. with Mathematics (at 10+2 level OR in graduation) or B.Tech/BE"

For One-Year MCA: -

"Any 4-Year graduate with at least 20 credits in Computer Science/applications or any other computing field".

Item II

In light of the ibid circular and after thorough discussions and deliberations, the BOS committee framed the structure and syllabus for MCA 1 and 2-year Programmes under NEP 2020. The Syllabus of the proposed courses has been revised in terms of content, programme learning outcomes, course learning outcomes and their mapping for each course. The structure is attached as Annexure – I and syllabus for the entire programme is attached as Annexure – II to these minutes.

It was unanimously resolved that this Structure and Syllabus for MCA programme under NEP 2020 be forwarded to Dean, SAST for approval by the Competent Authority.

The meeting ended with a vote of thanks to the Chair.

Prof. Javaid Iqbal
(HOD/Chairman)

Prof. M. Arif Wani
Professor

Prof. M. Ashraf Shah
NEP Consultant

Dr. Manzoor Ahmad
Scientist-D

17/4/25

Dr. Kaiser Javeed Giri
Associate Professor
DOCS, IUST

Dr. Sajad M. Khan
Scientist-B

Dr. Sajid Y. Bhat
Sr. Asstt. Prof.

17/4

Dr. Abid Sarwar
Sr. Asstt. Prof.

Dr. Umar Farooq
Asstt. Prof
North Campus

Dr Abid H.Wani
Asstt. Prof.
South Campus

Mr. Kh. M. Shafi
Sr. Scholar

Mr. Mohmad A. Teli
Sr. Scholar

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Two Year MCA Syllabus Structure (CW+R)

NCr Credit Level	Semester	Core Papers (Core Course/Elective)	Course Level	Credit	Total Credits	Max. Marks			Credit Distribution	Contact Hour
		Course Name				Internal	End Sem	Total	L:T:P	
	Sem-I	Java Programming MMCACJP125	400	4	22	28	72	100	4:0:0	60
		Machine Learning MMCACML125	400	4		28	72	100	4:0:0	60
		DCEC-I MMCADXX125	400	4		28	72	100	4:0:0	60
		DCEC-II MMCADXX125	400	4		28	72	100	4:0:0	60
		Research Methodology MMCACRM125	400	2		14	36	50	2:0:0	30
		Java Programming Lab MMCALJP125	400	2		14	36	50	0:0:2	60
		Machine Learning Lab MMCALML125	400	2		14	36	50	0:0:2	60
	Sem-II	Design and Analysis of Algorithms MMCACDA225	400	4	22	28	72	100	4:0:0	60
		Mobile Application Development MMCACMA225	400	4		28	72	100	4:0:0	60
		DCEC-III MMCADXX225	400	4		28	72	100	4:0:0	60
		DCEC-IV MMCADXX225	400	4		28	72	100	4:0:0	60
		Research and Publication Ethics MMCACRP225	400	4		28	72	100	4:0:0	60
		Mobile Application Development Lab MMCALMA225	400	2		14	36	50	0:0:2	60
		Total Credit (First Year)			44					**750 hrs**

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NCr Credit Level	Semester	Core Papers (Core Course/Elective) Course Code	Course Level	Credit	Total Credits	Max. Marks			Credit Distribution	Contact Hour
		Course Name				Internal	End Sem	Total	L:T:P	
6.5 CW+ R	Sem-III	Data Science with Python MMCACDS325	500	4	22	28	72	100	4:0:0	60
		Web Programming MMCACWP325	500	4		28	72	100	4:0:0	60
		DCEC-V MMCADXX325	500	4		28	72	100	4:0:0	60
		DCEC-VI MMCADXX325	500	4		28	72	100	4:0:0	60
		Software Project Management MMCACSP325	500	2		14	36	50	2:0:0	30
		Data Science with Python Lab MMCALDS325	500	2		14	36	50	0:0:2	60
		Web Programming Lab MMCALWP325	500	2		14	36	50	0:0:2	60
	Sem-IV	Project: Problem Identification & Analysis MMCAPPI425	500	6	20	-	-			
		Project: Dissertation MMCAPDI425	500	6		-	-			
		Project: Software Development MMCAPSD425	500	4		-	-			
		Project: Research Component MMCAPRC425	500	4		-	-			
		Total Credit (Aggregate)			86					

Discipline Centric Elective I Courses (8-Credit Units) for Semester-I	
Course Code	**Course Name**
MMCADAD125	Advanced Data Structures
MMCADCG125	Computer Graphics
MMCADMI125	Management Information System
MMCADSE125	Software Engineering
Discipline Centric Elective II Courses (8-Credit Units) for Semester-I	
Course Code	**Course Name**
MMCADDS125	Advanced Database Systems
MMCADAI125	Artificial Intelligence
MMCADBC125	Block Chain Technologies
MMCADCS125	Cyber Security & Digital Forensics
Discipline Centric Elective III Courses (8-Credit Units) for Semester-II	
Course Code	**Course Name**
MMCADAO225	Advanced Operating Systems
MMCADDI225	Digital Image Processing
MMCADDS225	Decision Support Systems
MMCADCN225	Cryptography and Network Security

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Discipline Centric Elective IV Courses (8-Credit Units) for Semester-II	
Course Code	**Course Name**
MMCADAC225	Advanced Computer Networks
MMCADCC225	Cloud Computing
MMCADLP225	Linux Programming
MMCADTC225	Theory of Computation
Discipline Centric Elective V Courses (8-Credit Units) for Semester-III	
Course Code	**Course Name**
MMCADQC325	Quantum Computing
MMCADEH325	Ethical Hacking
MMCADCV325	Computer Vision
MMCADER325	Enterprise Resource Planning
Discipline Centric Elective VI Courses (8-Credit Units) for Semester-III	
Course Code	**Course Name**
MMCADNL325	Natural Language Processing
MMCADSA325	Software Quality Assurance
MMCADDL325	Deep Learning
MMCADIT325	Internet of Things (IoT)

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Two Year MCA Syllabus Structure (CW+R)

Credit Level	Semester	Course Type	Course Code with Name	Course Level	Credits	Total Credits	Max. Marks			Credit Distribution	Contact Hours
							Continuous Assessment	End Semester	Total	L: T: P	
6.0	Sem - I	Core	MMCACJP125: Java Programming	400	4	22	28	72	100	4:0:0	60
		Core	MMCACML125: Machine Learning	400	4		28	72	100	4:0:0	60
		DCE-I	MMCADAD125: Advanced Data Structures MMCADCG125: Computer Graphics MMCADMI125: Management Information System MMCADSE125: Software Engineering	400	4		28	72	100	4:0:0	60
		DCE-II	MMCADDS125: Advanced Database Systems MMCADAI125: Artificial Intelligence MMCADBC125: Block Chain Technologies MMCADCS125: Cyber Security & Digital Forensics	400	4		28	72	100	4:0:0	60
		Core	MMCACRM125: Research Methodology	400	2		14	36	50	2:0:0	30
		Lab	MMCALJP125: Java Programming Lab	400	2		14	36	50	0:0:2	60
		Lab	MMCALML125: Machine Learning Lab	400	2		14	36	50	0:0:2	60
	Sem - II	Core	MMCACDA225: Design and Analysis of Algorithms	400	4	22	28	72	100	4:0:0	60
		Core	MMCACMA225: Mobile Application Development	400	4		28	72	100	4:0:0	60
		DCE-III	MMCADAO225: Advanced Operating Systems MMCADDI225: Digital Image Processing MMCADDS225: Decision Support Systems MMCADCN225: Cryptography & Network Security	400	4		28	72	100	4:0:0	60
		DCE-IV	MMCADAC225: Advanced Computer Networks MMCADCC225: Cloud Computing MMCADLP225: Linux Programming MMCADTC225: Theory of Computation	400	4		28	72	100	4:0:0	60
		Core	MMCACRP225: Research and Publication Ethics	400	4		28	72	100	4:0:0	60
		Lab	MMCALMA225: Mobile Application Development Lab	400	2		14	36	50	0:0:2	60
Total (First Year)					44	44	308	792	1100	38:0:6	750 Hrs
6.5	Sem - III	Core	MMCACDS325: Data Science with Python	500	4	22	28	72	100	4:0:0	60
		Core	MMCACWP325: Web Programming	500	4		28	72	100	4:0:0	60
		DCE-V	MMCADQC325: Quantum Computing MMCADEH325: Ethical Hacking MMCADCV325: Computer Vision MMCADER325: Enterprise Resource Planning	500	4		28	72	100	4:0:0	60
		DCE-VI	MMCADNL325: Natural Language Processing MMCADSQ325: Software Quality Assurance MMCADDL325: Deep Learning MMCADIT325: Internet of Things	500	4		28	72	100	4:0:0	60
		Core	MMCACSP325: Software Project Management	500	2		14	36	50	2:0:0	30
		Lab	MMCALDS325: Data Science with Python Lab	500	2		14	36	50	0:0:2	60
		Lab	MMCALWP325: Web Programming Lab	500	2		14	36	50	0:0:2	60
	Sem - IV	Project	MMCAPPI425: Problem Identification & Analysis	500	6	20	42	108	150	6:0:0	90
		Project	MMCAPDI425: Dissertation	500	6		42	108	150	6:0:0	90
		Project	MMCAPSD425: Software Development	500	4		28	72	100	0:0:4	120
		Project	MMCAPRC425: Research Component	500	4		28	72	100	0:0:4	120
Total (Second Year)					42	42	294	756	1050	30:0:12	810 Hrs
TOTAL CREDITS (AGGREGATE OF 4-SEMESTERS)					*86*	*86*	*602*	*1548*	*2150*	*68:0:22*	*156 0 Hrs*

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