

Self-Study Report (SSR) - Criterion-1

Information to be submitted by Departments/Directorates/Centres for Each Programme Offered

1	Department/Directorate/Centre/Institute:	Department of Computer Science, University of Kashmir	
2	Name of the Programme Offered:	MCA, M.Tech CS, Ph.D	
3	Departmental website link of the complete/updated syllabus:	https://cs.uok.edu.in/Main/ViewPage.aspx?Page=MCA_Syllabus https://cs.uok.edu.in/Main/ViewPage.aspx?Page=PhD_Syllabus https://cs.uok.edu.in/Main/ViewPage.aspx?Page=MTech_Syllabus	
4	Number of Courses in the Programme? MCA-8 courses/semester offered - 32 courses including project courses (8) credit/semester =24 M.Tech-7 courses for 1st & 2nd semesters - 6 courses in 3rd semester - 5 courses in project(4th) semester credit/semester =24		
5A	Number of New Courses introduced in the Programme since 2019? MCA - 02 1. Multimedia Systems 2. Wireless & Mobile Computing M.Tech -03 1. Embedded Systems 2. Software Reliability Engineering 3. Network Security		
5B	List of New Courses introduced since 2019:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Description</i>
	MCA18004CR	Multimedia Systems	MCA (To introduce various aspects of multimedia components like Images, audio,
	MCA21306DCE	Wireless & Mobile Computing	MCA (The student will be able to understand the new trends in mobile/wireless communications networks. understand multiple radio access techniques. analyze various routing algorithms used in mobile/wireless networks. identify the issues in transport and application layers.)
	CSE20511	Embedded systems	M.Tech (The purpose of embedded systems is to control a specific function within a device. They are usually designed to only perform this function repeatedly, but more developed embedded systems can control entire operating systems.)
	CSE205262	Software Reliability Engineering	M.Tech (to determine whether or not a system or program is able to meet the specifications and perform the functions expected by users)

	CSE20521	Network Security & Cryptography	M.Tech (identify and classify particular examples of attacks. define the terms vulnerability, threat and attack. identify physical points of vulnerability in simple networks. compare and contrast symmetric and asymmetric encryption systems and their vulnerability to attack, and explain the characteristics of hybrid systems.)			
5C	Departmental website link in support of New Courses introduced in the Programme since 2019.		https://cs.uok.edu.in/Files/79755f07-9550-4aeb-bd6f-5d802d56b46d/Custom/Doc11233.pdf			
6A	Dates of syllabus revisions during the last five years. (2019-2023)		2018	2019	2020	2021
6B	Departmental website link in support of syllabus revisions.		https://cs.uok.edu.in/Files/79755f07-9550-4aeb-bd6f-5d802d56b46d/Custom/BOS%2025-9-2020.pdf			
7	Are Programme Outcomes (POs) clearly mentioned in the syllabus? (Y/N) Y					https://cs.uok.edu.in/Main/ViewPage.aspx?Page=Programme_Outcome
8	Are the Course Outcomes (COs) mentioned for each course of the programme? (Y/N) N					
9A	Does POs & COs have relevance to local, regional & global developmental needs? (Y/N) Y					https://cs.uok.edu.in/Files/79755f07-9550-4aeb-bd6f-5d802d56b46d/Menu/Programme_Relevance_a9db5414-ffe1-47c2-bd74-a65248fb1351.pdf
9B	List of courses addressing Local Needs:					
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>			
	MCA21102CR	Database Systems	Programming courses, Database courses and AI courses enable students to fill jobs in local industry. Govt. and other sectors at regional and global levels.			
	MCA21304CR	Machine Learning				
	MCA21202CR	Python				
	MCA21205DCE	Web Programming				
9C	List of courses addressing Regional Needs:					
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>			
	MCA21102CR	Database Systems	Programming courses like C++, JAVA, Python Database Management courses like DBMS. Web Development Courses like Web Designing. AI and Machine Learning Courses.			
	MCA21304CR	Machine Learning				
	MCA21202CR	Python				
	MCA21205DCE	Web Programming				

9D	List of courses addressing Global Needs:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	MCA21102CR	Database Systems	MCA and M.Tech courses are inline with academic and industry requirements at global level.
	MCA21304CR	Machine Learning	
	MCA21202CR	Python	
	MCA21205DCE	Web Programming	
CSE20521	Network Security and Cryptography		
10A	Does the Programme offer focus on Employability/ Entrepreneurship/ Skill development courses? (Y/N)		
10B	List of Employability Courses:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	MCA21102CR	Database Systems	Programming courses like C++, JAVA, Python Database Management courses like DBMS. Web Development Courses like Web Designing. AI and Machine Learning Courses.
	MCA21304CR	Machine Learning	
	MCA21202CR	Python	
	MCA21205DCE	Web Programming	
CSE20521	Network Security and Cryptography		
10C	List of Entrepreneurship Development Courses:		
<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>	
MCA21307DCE	ORGANISATIONAL BEHIOUR	Management Courses like accounting and Management Control and Organisational Behaviour provide self-employment opportunities.	
MCA21401OE	MANAGEMENT INFORMATION SYSTEM		

10D	List of Skill development Courses:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	MCA21102CR	Database Systems	Programming courses like C++, JAVA, Python Database Management courses like DBMS. Web Development Courseslike Web Designing. AI and Machine Learning Courses.
	MCA21304CR	Machine Learning	
	MCA21202CR	Python	
	MCA21205DCE	Web Programming	
CSE20521	Network Security and Cryptography		
11A	Does the programme have courses addressing Professional ethics/ gender/ human values/ environment/ sustainability & other value framework enshrined in NEP2020/etc. (Y/N) Y		
11B	List of courses addressing Professional Ethics:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	MCA21307DCE	ORGANISATIONAL BEHAVIOUR	Management Courses like accounting and Management Control and Organisational Behaviour provide self-employment opportunities.
	MCA21401OE	MANAGEMENT INFORMATION SYSTEM	
11C	List of courses addressing Gender Issues:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	OE courses	OE courses	Other OE courses address gender/human values/ environment etc.
11D	List of courses addressing Human Value Issues:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	OE courses	OE courses	Other OE courses address gender/human values/ environment etc.
11E	List of courses addressing Environment Issues:		
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>
	OE courses	OE courses	Other OE courses address gender/human values/ environment etc.

11F	List of courses addressing Sustainability issues:								
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>						
	N/A	N/A	N/A						
11G	List of courses addressing Other Value Framework enshrined in NEP2020/etc.:								
	<i>Course Code</i>	<i>Course Title</i>	<i>Brief Justification</i>						
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12A	Does the Department/Directorate/Institute/ Centre offer Diploma Programme? (Y/N) N								
12B	Details of the Diploma Programmes offered by the institutions where the students of the institution have enrolled and successfully completed during the last five years (2019-2023)								
	<i>Programme Code</i>	<i>Name of Diploma Programme</i>	<i>Mode of Programme (Online/Offline)</i>	<i>Year of Offering/enrolment</i>	<i>Contact hours of course</i>	<i>Number of students enrolled in the year</i>	<i>Number of Students completing the course in the year</i>	<i>Departmental website link to the relevant document</i>	<i>Number of students enrolled in the year</i>
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

16A	Does the programme have Field Projects/ Research Projects /Internship in the programme? (Y/N) Y				
16B	Details of components of Field Projects / Research Projects / Internships implemented during last five years (2019-2023)				
	<i>Course Code</i>	<i>Name of the course pertaining to field projects/ Research Projects /Internship</i>	<i>Number of Credits</i>	<i>Number of students undertaking course</i>	<i>Departmental website link to the relevant document</i>
	MCA21401CR	Project Problem Identification	4	62	https://cs.uok.edu.in/Files/79755f07-9550-4aeb-bd6f-5d802d56b46d/Alert/Project_Allocation_1995a35e-7caa-44e1-b55c-c811895f6a2a.pdf
	MCA21402CR	Project Problem Analysis	4		
	MCA21403CR	Project Dissertation	6		
	MCA21404DCE	Project In-Home Software Developmnt	4		
	MCA21405DCE	Project - In-Home Research Component	4		
	MCA21406DCE	Project Industrial Software Developmnt	4		
	MCA21407DCE	Project Industrial Research Component	4		
17	Any other Relevant Information:				

Signature of the Head/Director of the Department/Centre/Institute

General Instructions:

1. Kindly format the syllabus in light of the instruction and discussions held in past meetings and upload the syllabus on the Departmental Website.
2. Upload valid proofs on the Departmental Website.