POST GRADUATE DEPARTMENT OF COMPUTER SCIENCES

University of Kashmir, Srinagar-190006

NAAC Accredited Grade "A+"

NOTES

Minutes of the Departmental Committee Meetings held on 11th & 12th March, 2025

Departmental Committee Meetings were held on 11th & 12th March, 2025 at 2:30 pm under the Chairmanship of the Head of the Department in his office chamber and following were present.

1.	Dr. Javaid Iqbal	HOD	....in the Chair
2.	Prof.M. Arif Wani	Professor	
3.	Dr. Manzoor Ahmad Chachoo	Scientist-D	
4.	Dr. Sajad Mohd Khan	Scientist-B	
5.	Dr. Sajid Yousuf Bhat	Sr. Assistant Professor	
6.	Dr. Abid Sarwar	Sr. Assistant Professor	

The following issues were discussed: -

Item – I

The Departmental Committee discussed about academic registration of MCA 4th semester batch 2023 courses and unanimously resolved that internship students list annexed to these minutes in Annexure-I, shall opt for following DCE courses of their 4th semester:

1.Project: Industrial Software Development (MCA21406DCE)
2. Project: Industrial Research Component (MCA21407DCE).

Item – II

The Departmental Committee discussed regulations for FYIMP in DS & AI after thorough deliberations in light of recently notified statutes for 5-year Integrated programme and framed the same as available in the Annexure-II to these minutes.

The Departmental Committee unanimously resolved that same be sent to the Dean Academic Affairs for further favor of placement before the upcoming Academic Council.

Item – III

The Departmental Committee reviewed the progress of minor project course of M.Tech CS batch 2023. It was observed that the class work for the batch started w.e.f. 13-11-2024.

As such, it was unanimously resolved that the mid-term presentation of their minor project course shall be held on 7th April, 2025, in the Department.

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

Dr. Javaid Iqbal
HOD

Prof.M.Arif Wani
Professor

Dr. Manzoor Ah. Chachoo
Scientist-D

Dr. Sajad M. Khan
Scientist-B

Dr. Sajid Y. Bhat
Sr. Assistant Professor

Dr. Abid Sarwar
Sr. Assistant Professor

Annexure-I to the Departmental Committee Meetings held on 11th & 12th March, 2025

Internship List of MCA 4th Sem Batch 2023

Supervisor	Name of Candidates	Enrollment No.	Company
Prof. M. Arif Wani	Jahangir Ayoub Owais Ahmad Mir	23045110017 23045110034	AIIOTS GREEK WORLD PVT. LTD. Gojwara, Srinagar
Prof. M. Arif Wani	Mohammad Hanan Najma Nasccr Uzaid Showkat Tahoora Tanveer	23045110035 23045110015 23045110032 23045110013	GABFIRE (OPC) PRIVATE LIMITED Residency Road, Srinagar
Dr. Javaid Iqbal	Aadil Ahmed Akhoon Sheikh Riyaz Ul Islam Danish Bashir	23045110002 23045110029 23045110048	CODE TODAY Ennco Plaza Karan Nagar Srinagar
Dr. Sajad Mohd Khan	Insha Shafi Malik Azrah	23045110053 23045110026	CODE TODAY Ennco Plaza Karan Nagar Srinagar
Prof.M. Arif Wani	Shazia bano	23045110007	ENABLENOW Technology Solutions Pvt. Ltd. Kursoo Raj Bagh, Srinagar
Prof.M.Arif Wani	Mehak Mehraj	23045110051	ZOM-BI Karan Nagar Srinagar
Dr. Sajid Yousuf Bhat	Qaiser Mushtaq Shah	23045110047	ClearTek Systems Franklin, New York

Remarks: These internships have been allowed as per the Policy adopted vide Departmental Committee resolution at Item I in the Minutes of Departmental Committee Meeting held on 19th July, 2023.

Head of the Department

Annexure-II to Departmental committee Meetings minutes held on 11th & 12th March-2025

Regulations of 5-Year Integrated Master's Degree Programme (FYIMP) in Data Science and Artificial Intelligence (DS & AI) under NEP 2020

1. **Commencement:** These regulations shall be interpreted and read together with Statutes governing FYIMPs under NEP 2020 notified vide Notification No:F(Statutes-Integrated Programmes)Acad/KU/24 Dated 25-07-2024

2. **Short Title:** These regulations shall be called regulations governing 5-Year Integrated Master's Degree Programme in Data Science and Artificial Intelligence (FYIMP in DS & AI)

3. **Definitions:**

'Programme' means 5-Year Integrated Master's Programme in Data Science and Artificial Intelligence (FYIMP in DS & AI)

4. **Offering Department**

The FYIMP in DS &AI is offered at the P.G Department of Computer Science, University of Kashmir at its Main campus under the School of Applied Sciences and Technology.

5. **Entry, Exit and Re-entry**

i. FYIMP in DS &AI shall have multiple possible entries and multiple exits as provided in the statutes.

ii. Admission shall be made in the 1st semester (1st year), 7th semester (4th year) and 9th semester (5th year) with appropriate qualifications as depicted in these regulations of the programme.

iii. After first year (successful completion of two-semesters with a minimum of 40 credits), a candidate with a minimum of 04 additional Skill Credits is eligible to receive *Certificate in Data Science and Artificial Intelligence.*

iv. After second year (successful completion of four semesters with a minimum of 80 credits), a candidate with a minimum of 04 additional Skill Credits is eligible to receive *Diploma in Data Science and Artificial Intelligence.*

v. After third year (successful completion of six semesters with a minimum of 120 credits), a candidate is eligible to receive *Bachelor's Degree in Data Science and Artificial Intelligence.*

vi. After four years (successful completion of eight semesters with a minimum of 160 credits), a candidate is eligible to receive *Bachelor's (Honors) with/without Research Degree in Data Science and Artificial Intelligence.*

vii. A candidate entering the programme in 4th year (7th semester) and exiting after completion of 4th year is eligible to receive *PG Diploma in Data Science and Artificial Intelligence.*

viii. After completion of 5 years (successful completion of ten semesters), a candidate shall receive *Five-Year Integrated Master's Degree in Data Science and Artificial Intelligence*. A candidate who joins the programme in 4th year (7th semester) shall be awarded *Two-Year Master's Degree in Data Science and Artificial Intelligence* whereas the one who joins the programme in 5th year (9th semester) shall be awarded *One-Year Master's Degree in Data Science and Artificial Intelligence.*

ix. A candidate availing exit option shall have the option to re-enter the programme within 3 years of exit at the beginning of any academic year to complete the degree

with the prevailing syllabi. Such candidates shall complete the degree within a maximum period of 9 years from the date of admission to the 1st semester of this programme.

6. **Eligibility for Admission to the programme:**

"A pass in 10+2 Examination (any stream) with a minimum of 45% marks in case of general category and 40% marks in case of reserved category candidates from a recognized board/institution of the country."

7. **Intake Capacity:** 20 + 10 self-finance seats. The intake shall be governed by the reservation rules of the University.

Fee Structure: The fee shall be as follows. However, the University shall notify any change in fee from time to time.

General Category: Rs. 36,875/- per year as per following details;
for odd semesters (1st, 3rd, 5th, 7th and 9th semester):
(Rs.21,875/- per semester; with Part A= Rs.5800/-, Part B= Rs.15000/- & Part C= Rs.1075/-each semester)
for even semesters (2nd, 4th, 6th, 8th and 10th semester):
(Rs.15,000/- per semester; with Part B= Rs.15000/- each semester)

Self-Finance category: Normal fee plus self-finance fee of Rs.50,000/- per annum

8. The entry points, with credits earned during the programme and the exit award situations are depicted in the following table:

Entry year/ Admission	Exit year	Credits Studied							Exit with
		Major	Minor	Multi-D	AECs	VACs	SEC	Total	
1st	1st	8	8	6	6	8	4	40	**Certificate** in DS & AI, after earning 04 additional Skill Credits
	2nd	32	16	9	9	8	6	80	**Diploma** in DS & AI, after earning 04 additional Skill Credits
	3rd	64	24	9	9	8	6	120	**Bachelor's Degree** in DS & AI
	4th	104	24	9	9	8	6	160	**Bachelor's Degree (Honors)** W/WO Research in DS & AI
	5th	144	24	9	9	8	6	200	**Master's Degree** in DS & AI
4th	4th	40	-	-	-	-	-	40	**PG Diploma** in DS & AI
	5th	80	-	-	-	-	-	80	**Two-Year Master's Degree** in DS & AI
5th	5th	40	-	-	-	-	-	40	**One-Year Master's Degree** in DS & AI

9. Eligibility and procedure for Admission to 4th Year and 5th Year of this Programme:

The admission to 4th and 5th Year of this Programme shall be made through entrance test to be conducted by the University of Kashmir. The candidates who score more than 40% in the said test and have earned a minimum of 120 credits during their bachelor's degree shall be eligible for selection/admission to programme in the 4th Year and 5th Year subject to the availability of vacancy(ies) in the programme. The syllabus for the entrance test shall be prescribed by the department.

Programme Structure

As notified in the statutes, the following Programme structure of five-year Integrated Master's Degree Programme in Data Science & Artificial Intelligence shall be as follows:

Course Type		Semester & Credits (T +L)										
		1st	2nd	3rd	4th	5th	6th	7th	8th	9th O=OPTION		10th
										O1	O2	
Major Subject	Major CT1	3+1	3+1	4	4	4	4	3+1	4	4	20	20
	Major CT2			3+1	4	4	4	4	4	4		
	Major CT3				3+1	3+1	3+1	3+1	4	4		
	Major CT4				4	4	4	4	4	4		
	Major CT5							4	3+1	4		
Minor Subject	Minor	4	4	4	4	4	4	-	-	-		-
Research Project		Major Project (Research) 20 credits										
Multi-Disciplinary Courses*		3	3	3	-	-	-	-	-	-		-
Ability Enhancement Courses (AECs)		3	3	3	-	-	-	-	-	-		-
Value Added Courses (VACs)		2+2=4	2+2 =4	-	-	-	-	-	-	-		-
Skill Enhancement Courses (SECs)		2	2	2	-	-	-	-	-	-		-
Total Credits (Semester)		20	20	20	20	20	20	20	20	20		20
Total Credits (Certificate)		**40 Credits**		**→ Exit with Certificate in DS & A.I, after earning 04 additional Skill credits**								
Total Credits (Diploma)		**80 Credits**				**→ Exit with Diploma in DS & A.I, after earning 04 additional Skill credits**						
Total Credits (Bachelor's Degree)		**120 Credits**						**→ Exit with Bachelor's Degree in D.S & A.I**				
Total Credits (Bachelor's Degree Honours with/without research)		**160 Credits**							**→ Exit with Bachelor's (Honors) W/WO Research in D.S & A.I**			
Total Credits (Master's Degree)		**200 Credits (Master's Degree in in DS & A.I)**										

*The course list will as per the available basket for each course type, updatable with introduction/availability of new courses in the respective baskets.

8. Semester-wise listing of the different courses adopted by the BOS

Aligning with the descriptions of the courses types, their credit weightages and overall credit framework provided in the notified statutes together with the scheme of Course Coding for 5-year integrated programmes notified by the NEP Cell, following are the semester wise listing of the different courses adopted by the BOS for the programme.

1st Semester Courses: NOTE: *AEC/MDC/VAC-1 and VAC-2 courses are to be opted from centrally organized basket of courses for FYIMP under NEP 2020				Hours		Credits	Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab		Internal	End Term	Total
01	Problem Solving with C	IMDAMJPC0124	Major Course	3	2	4	28	72	100
02	Internet of Things	IMDAMNIT0124	Minor Course	4	-	4	28	72	100
03	AEC course	IMDAAEXXXX23	Ability Enhancement Course	3	-	3	21	54	75
04	MDC course	IMDAMDXX0023	Multi-Disciplinary Courses	3	-	3	21	54	75
05	VAC-1 course	IMDAVAXXXX23	Value Added Courses	2	-	2	14	36	50
06	VAC-2 course	IMDAVAXXXX23	Value Added Courses	2	-	2	14	36	50
07	Principles Of Management	IMDASEPM0124	Skill Enhancement Courses	2	-	2	14	36	50

2nd Semester Courses: NOTE: *AEC/MDC/VAC-1 and VAC-2 courses are to be opted from centrally organized basket of courses for FYIMP under NEP 2020				Hours		Credits	Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab		Internal	End Term	Total
01	Python Programming	IMDAMJPP0224	Major Course	3	2	4	28	72	100
02	Programming with R	IMDAMNPR0224	Minor Course	4	-	4	28	72	100
03	AEC course	IMDAAEXXXX23	Ability Enhancement Course	3	-	3	21	54	75
04	MDC course	IMDAMDXX0023	Multi-Disciplinary Courses	3	-	3	21	54	75
05	VAC-1 course	IMDAVAXXXX23	Value Added Courses	2	-	2	14	36	50
06	VAC-2 course	IMDAVAXXXX23	Value Added Courses	2	-	2	14	36	50
07	Latex	IMDASELT0224	Skill Enhancement Courses	2	-	2	14	36	50

3rd Semester Courses: NOTE: *AEC/MDC/VAC-1 and VAC-2 courses are to be opted from centrally organized basket of courses for FYIMP under NEP 2020				Hours		Credits	Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab		Internal	End Term	Total
01	Data Science	IMDAMJDS0324	Major Course	4	-	4	28	72	100
02	Data Structures using C	IMDAMJDC0324	Major Course	3	2	4	28	72	100
03	Computer Networks	IMDAMNCN0324	Minor Course	4	-	4	28	72	100
04	AEC course	IMDAAEXXXX23	Ability Enhancement Course	3	-	3	21	54	75
05	MDC course	IMDAMDXX0023	Multi-Disciplinary Courses	3	-	3	21	54	75
06	Matlab	IMDASEML0324	Skill Enhancement Courses	2	-	2	14	36	50

4th Semester Courses:				Hours		Credits	Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab		Internal	End Term	Total
01	Algorithms Design & Analysis	IMDAMJAD0424	Major Course	4	-	4	28	72	100
02	Linear Algebra	IMDAMJLA0424	Major Course	4	-	4	28	72	100
03	Artificial Intelligence	IMDAMJAI0424	Major Course	3	2	4	28	72	100
04	DBMS	IMDAMJDB0424	Major Course	4	-	4	28	72	100
05	Software Engineering	IMDAMNSE0424	Minor Course	4	-	4	28	72	100

5th Semester Courses:				Hours		Credits	Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab		Internal	End Term	Total
01	Evolutionary Computing	IMDAMJEC0524	Major Course	4	-	4	28	72	100
02	Probability Theory	IMDAMJPT0524	Major Course	4	-	4	28	72	100
03	Machine Learning	IMDAMJML0524	Major Course	3	2	4	28	72	100
04	Cloud Computing	IMDAMJCC0524	Major Course	4	-	4	28	72	100
05	Data Mining	IMDAMNDM0524	Minor Course	4	-	4	28	72	100

6th Semester Courses:				Hours		Credits	Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab		Internal	End Term	Total
01	Deep Learning Essentials	IMDAMJDL0624	Major Course	4	-	4	28	72	100
02	Calculus	IMDAMJCC0624	Major Course	4	-	4	28	72	100
03	Digital Image Processing	IMDAMJDI0624	Major Course	3	2	4	28	72	100
04	Time Series Analysis & Forecasting	IMDAMJTS0624	Major Course	4	-	4	28	72	100
05	Expert System	IMDAMNES0624	Minor Course	4	-	4	28	72	100

7th Semester Courses:				Hours		Credits	Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab		Internal	End Term	Total
01	Java Programming	IMDAMJJP0724	Major Course	3	2	4	28	72	100
02	Optimization Techniques	IMDAMJOT0724	Major Course	4	-	4	28	72	100
03	Deep Learning Architecture	IMDAMJDL0724	Major Course	3	2	4	28	72	100
04	Computer Vision	IMDAMJCV0724	Major Course	4	-	4	28	72	100
05	Big Data Analytics	IMDAMJBD0724	Major Course	4	-	4	28	72	100

8th Semester Courses:				Hours		Credits	Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab		Internal	End Term	Total
01	Intrusion Detection Systems	IMDAMJID0824	Major Course	4	-	4	28	72	100
02	Generative AI	IMDAMJGA0824	Major Course	4	-	4	28	72	100
03	Reinforcement Learning	IMDAMJRL0824	Major Course	4	-	4	28	72	100
04	Natural Language Processing	IMDAMJNL0824	Major Course	4	-	4	28	72	100
05	Fuzzy Systems	IMDAMJFS0824	Major Course	3	2	4	28	72	100

9th Semester Courses:		Option 1: Course Work		Hours			Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab	Credits	Internal	End Term	Total
01	**Elective 1:** i)Large Language Models ii)AI Assurance	 IMDAMJLL0924 IMDAMJAA0924	 Major Course Major Course	4	-	4	28	72	100
02	**Elective 2:** i)Embedded Systems ii)Business Intelligence	 IMDAMJES0924 IMDAMJBI0924	 Major Course Major Course	4	-	4	28	72	100
03	**Elective 3:** i)Distributed Algorithms ii)AI Tools & Applications	 IMDAMJDA0924 IMDAMJAT0924	 Major Course Major Course	4	-	4	28	72	100
04	**Elective 4:** i)Graph Machine Learning ii)Social Network analysis & Mining	 IMDAMJGM0924 IMDAMJSN0924	 Major Course Major Course	4	-	4	28	72	100
05	**Elective 5:** i)Robotics ii)Banking & Finance Service Analytics	 IMDAMJRB0924 IMDAMJBF0924	 Major Course Major Course	4	-	4	28	72	100

9th Semester Courses:		Option 2: Research Work		Hours			Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab	Credits	Internal	End Term	Total
01	**Research**	IMDAMJRW0924	Major Course			20	140	360	500

10th Semester Courses:	Research Work			Hours			Marks		
S.No.	Course name	Course Code	Type of Course	Theory	Lab	Credits	Internal	End Term	Total
01	**Research**	IMDAMJRW1024	Major Course			20	140	360	500

8.7. Skill Enhancement Courses (SECs): 1st to 3rd Semesters

Aligning with the descriptions of the SEC courses, their credit weightages and overall credit framework provided in the notified statutes together with the scheme of Course Coding for 5-year integrated programmes notified by the NEP Cell, following are the listing of the different SEC courses adopted by the BOS for the programme during its 1st to 3rd Semesters.

Semester	Course Name	Course Code	Hours		Credits	Marks		
			Theory	Lab		Internal	End Term	Total
1	Principles of Management	IMDASEPM0124	2	-	2	14	36	50
2	Latex	IMDASELT0224	2	2	2	14	36	50
3	Matlab	IMDASEML0324	2	2	2	14	36	50

9. Format of Question Paper

9.1. Courses with 4 Credits

The question paper shall have to be answered in $2\frac{1}{2}$ Hours, and shall contain questions across three sections as described below:

Section A: Eight very short answer type questions (two from each unit of the syllabus) to be answered in about 20 words each and carrying TWO (2) marks each. i.e. 8x2marks=16 marks. This section shall have no choice.

Section B: Four short answer type questions (one from each unit of the syllabus) to be answered in about 250 words each and carrying SIX (6) marks each. i.e.4x6marks=24 marks. This section shall have no choice.

Section C: Four long answer type questions (one from each unit of the syllabus) out of which two have to be answered in about 500 words each and carrying Twelve (16) marks each. i.e. 2x16=32 marks.

The question paper shall carry total marks of 72.

9.2. Courses with three (3) Credits and 3+1 Credits

The question paper shall have to be answered in 1 Hour and 40minutes, and shall contain questions across three sections as described below:

Section A: Six very short answer type questions (two from each unit of the syllabus) to be answered in about 20 words each and carrying TWO (2) marks each. i.e. 6x2marks=12 marks. This section shall have no choice.

Section **B:** Three short answer type questions (one from each unit of the syllabus) to be answered in about 250 words each and carrying SIX (6) marks each. i.e. 3x6marks=18marks. This section shall have no choice.

Section C: Three long answer type questions (one from each unit of the syllabus) out of which two have to be answered in about 500 words each and carrying Twelve (12) marks each. i.e. 2x12marks=24 marks.

The question paper shall carry total marks of 54.

Exam for one Lab credit: Examination shall be for one hour of experimental work followed by viva-voce about the course or assigned experiment or both. It shall carry 25 marks.

9.3. Courses with two (2) Theory Credits *e.g. 2+0 credit courses*

The question paper shall have to be answered in 1 hour and 15 minutes, and shall contain questions across three sections as described below:

Section A: Four very short answer type questions (two from each unit of the syllabus) to be answered in about 20 words each and carrying TWO (2) marks each. i.e. 4x2marks = 8 marks. This section shall have no choice:

Section **B:** Two short answer type questions (one from each unit of the syllabus) to be answered in about 250 words each and carrying SIX (6) marks each. i.e. 2x6marks = 12 marks. This section shall have no choice.

Section C: Two long answer type questions (one from each unit of the syllabus) out of which one has to be answered in about 500 words each and carrying Twelve (16) marks each. i.e. 1x16=16 marks.

The question paper shall carry total marks of 36.

10. Removal of Difficulties

In order to remove any difficulties arising out of application/implementation of these statutes, the Vice-Chancellor shall be final authority for authoritative implementation of these statutes