

University Institute of Engineering & Technology

Department of Computer Application

Dated: 28/10/2020

MINUTES OF MEETING

A meeting of Board of studies (Computer Application) was held on 28/10/2020 at 1:00pm in the office of Head of Computer Application at UIET- IV building.

The following members attended the meeting:

1. Dr. Pushpa Mamoria, Head, Department of Computer Application, UIET, CSJM University, Kanpur (Convener)
2. Prof. Ravindra Singh, M.J.P.R. University, Bareilly (Member)
3. Dr. Bhumika Gupta, G.B. Pant Institute of Engineering & Technology, Garhwal (Member)
4. Dr. Rashi Agarwal, Department of Information Technology, UIET, CSJM University, Kanpur, (Member)
5. Dr. Deepak Kumar Verma, Department of Computer Science & Engineering, UIET, CSJM University, Kanpur, (Member)

The meeting started with welcome address by convener BOS, and agenda was discussed. Prof. Ravindra Singh attended the meeting through online mode of the meeting.

Proceedings:

Agenda Item 1

To discuss the syllabus for MCA 2 years course regular programme.

Committee discussed about the proposed courses and approved the semesterwise offered courses after required changes. The finalized / approved list of courses, semesterwise is attached herewith.

Agenda Item 2

To discuss the ordinance for MCA 2 years course regular programme.

The proposed ordinance for MCA two years programme was approved.

Dr. Pushpa Mamoria

Dr. Bhumika Gupta

Dr. Deepak Kumar Verma

Pushpa
28/10/2020
Bhumika
28/10/2020
Deepak
28/10/2020

Prof. Ravindra Singh

Dr. Rashi Agarwal

Rashi
28/10/2020

Proposed
STUDY & EVALUATION SCHEME

For

**MASTER OF COMPUTER
APPLICATIONS**

(MCA)
(TWO YEARS COURSE)

REGULAR PROGRAMME

[2020-21]

Offered by



University Institute of Engineering & Technology

C.S.J.M University

Kanpur – 208024[INDIA]

www.kanpuruniversity.org

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28/10/2020

June
28/10/2020

Dr. V. S. Singh
28/10/20

MCA (Master of Computer Applications)

First Year

First Semester

Sr. No.	Code No.	Paper	Periods			Internal Assessment			ESE	Subject Total	Credits
			L	T	P	CT	TA	Total			
		Theory Papers									
1	MCA-101	Fundamental of Computers & Emerging Technologies	3	1	0	30	20	50	100	150	4
2	MCA-102	Principles of Programming using C	3	1	0	30	20	50	100	150	4
	MCA-103	Principles of Management & Communication	3	1	0	30	20	50	100	150	4
	MCA-104	Discrete Mathematics	3	1	0	30	20	50	100	150	4
	MCA-105	Computer Organization & Architecture	3	1	0	30	20	50	100	150	4
		Practicals									
6	MCA-151	Principles of Programming Using C Lab	0	0	3	30	20	50	50	100	3
	MCA-152	Professional Communication Lab	0	0	2	30	20	50	50	100	2
		Total								950	25

Second Semester

Sr. No.	Code No.	Paper	Periods			Internal Assessment			ESE	Subject Total	Credits
			L	T	P	CT	T A	Total			
		Theory Papers									
1	MCA-201	Theory of Automata & Formal Language	3	1	0	30	20	50	100	150	4
2	MCA-202	Object Oriented Programming	3	1	0	30	20	50	100	150	4
3	MCA-203	Operating Systems	3	1	0	30	20	50	100	150	4
4	MCA-204	Database Management Systems	3	1	0	30	20	50	100	150	4
5	MCA-205	Data Structure	3	1	0	30	20	50	100	150	4
		Practicals									
6	MCA-251	DBMS Lab	0	0	3	30	20	50	50	100	3
7	MCA-252	Object oriented and data structure lab using Java	0	0	3	30	20	50	50	100	3
		Total								950	26

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MCA (Master of Computer Applications)

Second Year

Third Semester

Sr. No.	Code No.	Paper	Periods	Internal Assessment	ESE	Subject Total	Credits
		Theory Papers	L T P	CT TA Total			
1	MCA-301	Computer Network	3 1 0	30 20 50	100	150	4
2	MCA-302	Artificial Intelligence	3 1 0	30 20 50	100	150	4
3	MCA-303	Design & Analysis of Algorithm	3 1 0	30 20 50	100	150	4
4	MCA-304	Elective - 1	3 1 0	30 20 50	100	150	4
5	MCA-305	Elective - 2	3 1 0	30 20 50	100	150	4
		Practicals					
6	MCA-351	Lab	0 0 3	30 20 50	50	100	3
7	MCA-352	Mini Project(AI / ISCL)		100	50	150	4
		Total				1000	27

Fourth Semester

Sr. No.	Code No.	Paper	Periods	Internal Assessment	ESE	Subject Total	Credits
		Theory Papers	L T P	CT T A Total			
1	MCA-401	Elective - 3	3 1 0	30 20 50	100	150	4
2	MCA-402	Elective - 4	3 1 0	30 20 50	100	150	4
3	MCA-403	Elective - 5	3 1 0	30 20 50	100	150	4
6	MCA-451	Major Project		350	150	500	15
		Total				950	27
					Total Credits		105

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		ELECTIVE SUBJECTS
Elective-1	11	Cryptography & Network Security
	12	Data Warehousing & Data Mining
	13	Software Project Management
	14	Cloud Computing
	15	Software Engineering
Elective-2	21	Web Technology
	22	Big Data
	23	Software Testing & Quality Assurance
	24	Digital Image Processing
Elective-3	31	Privacy & Security in Online Social Media
	32	Soft Computing
	33	Pattern Recognition
	34	Software Quality Engineering
	35	Compiler Design
Elective-4	41	Block chain Architecture
	42	Neural Network
	43	Internet of Things
	44	Wireless and Mobile Computing
	45	Deep Learning
Elective-5	51	Mobile Computing
	52	Computer Graphics and Animation
	53	Natural Language Processing
	54	Machine Learning
	55	Quantum Computing

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Proposed
ORDINANCE

For

MASTER OF COMPUTER APPLICATIONS

(MCA)
(TWO YEARS COURSE)

REGULAR PROGRAMME

[2020-21]

Offered by



**University Institute of Engineering &
Technology**

C.S.J.M University

Kanpur -- 208024[INDIA]

www.kanpuruniversity.org

C. S. J. M. UNIVERSITY, KANPUR

Ordinance for

Master of Computer Application (MCA) Programme

1. Admission:

- 1.1 Admission to MCA 1st semester will be made as per the rules prescribed by the A.K. Technical University, Lucknow.
- 1.2 For NRI candidates seeking admission to MCA course, there will be no written test. Admission will be given on the basis of Academic Index as per University rules.
- 1.3 Reservations will be applicable as per rules of state government.

2. Eligibility for Admission:

- 2.1 For admission through entrance examination conducted by A.K. Technical University, Lucknow:

As per the rules for admission in first year, prescribed by the A.K. Technical University, Lucknow, from time to time for various categories.

- 2.2 Direct admission on vacant seats at Institute/college level:

If seats remain vacant in first year even after all rounds of counselling conducted by A.K. Technical University, Lucknow, the Institute/college may invite applications from eligible candidates. However, priority will be given to those candidates who have appeared in the entrance examination conducted by A.K. Technical University, Lucknow for the same year and secured some rank.

3. Attendance:

- 3.1 Every student will have to fulfil the condition of 75% attendance in all the lectures, tutorials, practical and other prescribed curricular and co-curricular activities. The attendance can be condoned upto 50% on medical ground or for other genuine reasons.
- 3.2 The attendance shall be counted from the date of registration in the college.

4. Course duration:

- 4.1. Total duration of the MCA course shall be 2 years, each year comprising 2 semesters.
- 4.2. The maximum time allotted to complete the MCA course shall be 5 years failing which he/she shall not be allowed to continue for his/her MCA degree.

Dr. Venk
28/10/2020

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5. Curriculum:

5.1 The 2-year curriculum has been divided into 4 semesters. All Semesters shall include lecturers, tutorials, practical, seminars as defined in the schemes of instruction and examination issued by the university from time to time.

5.2 The curriculum will also include such other curricular, co-curricular and extra-curricular activities as prescribed by the university from time to time.

6. Change of college:

Change of college shall not be permitted.

7. Cancellation of Admission

The admission of a student at any stage of study shall be cancelled if:

7.1 He/ She is not found qualified as per AICTE / State Government norms and guidelines or the eligibility criteria prescribed by the University.

7.2 He/ She is found unable to complete the course within the stipulated time as prescribed in clause 4.2.

7.3 He/ She is found guilty by the Anti-ragging / Discipline Committee of the University.

8. English shall be the medium of instruction and in the university examination.

9. Ordinarily 50% paper setter/ examiners shall be internal and 50% external.

10. The classes for M.C.A course shall run in CSJM University, Kanpur under the control of the Head/ Director of Department of Computer Application.

11. There shall be examination in each semester as per the scheme of the examination and the student shall be required to appear in every subject as specified in the course structure for each semester.

12. There is no provision for private candidate for M.C.A. Course.

13. No student will be permitted to pursue any other course of study or take up an employment during the tenure of this programme.

14. The faculty for M.C.A. will be partly internal and partly external (Guest lecturers)

15. Examination:

15.1 The performance of a student in a semester shall be evaluated through continuous assessment and end semester examination. The continuous assessment shall be based on class tests, assignments, tutorials, quizzes/ viva-voce, general behavior and regularity in attendance. The marks for continuous assessment (internal assessment marks) shall be awarded at the end of the semester. The end semester examination shall be conducted by means of written paper, practical and/or viva -voce .

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15.2 The semester end written examination in each subject shall be of three hours duration.

15.3 The examination for the back papers of first and second semester will be held along with Third and Fourth semester. The examination for back papers of third and fourth semester will be held in subsequent year as and when the third and fourth semester examination of MCA are held.

15.4 The end semester examination of compulsory / elective paper shall be of three hours duration. The maximum marks allotted for each paper shall be as following.

i) End Semester Examination	100 Marks
ii) Internal Assessment	50 Marks

15.5 All class test/assignment/quizzes will be submitted by the student in his/her own hand writing.

15.6 The distribution of marks for internal assessment shall be as follow.

(i) Written test (mid-term test)	20 Marks
(ii) Two class test/quizzes/assignment	20 Marks
(iii) General behavior	05 Marks
(iv) Regularity in attendance	05 Marks

15.7 If a student fails in a course and comes under carry over condition of clause 16. Then he/she should be given a chance to improve the internal marks per following condition

- His/her internal assessment marks are less than 40%
- He /she again appears in all quizzes and mid-term test held during regular semester. Marks for general behavior and regular attendance will be adjusted to quizzes and mid-term
- The student takes permission from the Faculty in charge as well as the Department head/director in the semester.
- Absentees in internal assessment of a courses may be permitted to reappear in internal assessment components of that courses such as quiz's mid-semester etc. with prior permission of the Head of Department.

15.8 Make up test may be held only for those student who could not appear in any one of mid-terms class tests due to genuine reasons for which the prior permission from the Head of institutes/college was taken. Make up test shall ordinarily be held about two weeks before the end semester examination

The syllabus for the make up test shall be the decided by the subject teacher up to that time.

15.9 There shall be the practical Exam. In M.C.A part-I (1st and 2nd semester) and M.C.A part-II (3rd semester). This shall be compulsory for all the student. It will carry a maximum of 200 marks each

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semester. One external examiner and one internal examiner will conduct practical examination jointly. Ordinarily the internal examiner will be supervisor of that practical/ theory paper.

15.10 The distribution of marks for practical shall be as follow (per practical subject).

- i) External viva-voce 50 Marks
- ii) Internal Assessment 50 Marks

15.11 Project training of 4th semester will be compulsory for all the student. It will carry maximum of 300 marks. One external examiner and one internal examiner will conduct practical jointly. The Head/ Director shall have the right to co-opt a faculty member to assist the panel in the conduct of the project presentation/ viva-voce examination.

15.12 After the examination of the 2nd semester and before commencement of the 3rd semester every student shall have to undertake industrial/summer training work for a period of eight weeks and submit two copy of project report of evaluation at last two weeks before the commencement on the 3rd semester examination.

15.13 The marks of project/practical Training shall be awarded on the following basis.

- (i) Write – up / Report 50%
- (ii) Presentation 50%

15.14 The minimum pass marks in each theory subject (including internal assessment marks) shall be 40%. Absence in internal assessment for a course will amount a failing in that course in spite of securing 40% Marks in external examination in the same course.

15.15 The minimum pass marks in a practical/project/seminar/practical training subject shall be 50%.

15.16 A candidate in order to pass must secure 50% marks in the aggregate of a particular academic year including that he/she must secure 50% marks in the aggregate in each semesters of that academic year.

16. Promotion and Carryover:

16.1 A candidate satisfying all the requirements under clause 15 shall be promoted to the next academic year of study.

16.2 (a) A candidate shall be eligible for provisional with carryover to the next academic year of study provided. He/she fails to satisfy the requirement of clause 15.14 and 15.15 in not more than 04(four) theory, paper and 01(one) practical papers on the basis of combined result of both semester examinations of a particular academic year. A candidate who satisfies the requirements will be required to appear in those theory papers / practical's in which he/ she failed in subsequent examination of the same semester.

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(b) If a candidate satisfies the requirements of clause 15.14 and 15.15 but fails to satisfy the requirement of clause 15.16 but secure greater than 40% aggregate in any of condition in clause 15.16 He /She will be eligible for provisional promotion with carry over. He /She may choose up to a maximum of any four theory papers of that particular academic year as per his/her choice to pass the examination of that year. He / she shall inform the college about his /her choice within fifteen days after the start of new session.

16.3 In any semester a particular year, a student will not allowed to register for more than 09 (eight) *ten* courses, i.e. 5 (five) regular theory papers plus two regular practicals plus two - carry over papers (Theory / Practical).

16.4 All other candidates who do not satisfy the condition laid down in clause 16 shall be declared fail and shall be required to repeat the whole academic year after taking re-admission or opting for Ex-studentship. This facility is, however, subject to the time limit stipulated in clause 4.

16.5 A candidate who gets carry over facility in any year and is allowed to re-appear in the next examination of that semester by paying the prescribed examination fee.

17 Ex- studentship

17.1 A candidate opting for ex-studentship shall be required to appear in all the theory and practical subjects in the end semester examination of both semesters. However, the marks pertaining to internal assessment shall remain the same as those secured earlier.

17.2 A candidate opting for ex-studentship shall be required to apply to the college by paying only examination fees within 15 days from the start of new session.

17.3 The Ex- student can attend the regular classes by paying certain amount of fees which is decided by university.

18 . Re admission in the Institution:

A candidate may be allowed for re-admission provided he/she satisfies one of the following conditions:

18.1 A candidate is declared as fail.

18.2 A candidate did not appear in a semester examination and/or he/she was granted permission for not to appear in the examination.

18.3 A candidate has been detained by the institute and has also been permitted to take re-admission.

18.4 A candidate as an ex-student passed the examination of the academic year or qualified for carry over system

18.5 A candidate promoted with carry over subjects and he/she has opted for re-admission.

Dr. Venkatesh
28/10/2020

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19. Results:

19.1 The result of a candidate shall be declared on the basis of performance of both semesters of the same academic year. Result of the final year shall be declared on the basis of working out Grand Total by adding marks of all the years of study in the following ways

1 year 100 % of aggregate marks

11 year 100 % of aggregate marks

20. Award of division:

20.1 The division shall be awarded on the basis of final year result.

20.2 There will be no pass or third division.

20.3 If a candidate passes all examinations and secure 50% or more marks, but less than 60% marks of the Grand Total, he/she shall be placed SECOND DIVISION

20.4 If a candidate passes all examinations and secure 60% or more marks of the Grand Total, he/she shall be placed FIRST DIVISION

20.5 If a candidate passes all examinations in first attempt without grace and secures 75% or more marks, he/she shall be placed in FIRST DIVISION WITH HONOURS and the candidate at first two top positions amongst First Div. with Honours only will be awarded medals Viz. Gold and Silver respectively in order of merit as decided by University time to time.

21. Grace Marks:

21.1 A candidate may be awarded grace marks in a maximum of two subjects including theory papers, practical, practical training and/or aggregate marks in each academic year provided he/she can be declared to have passed the academic year by awarding the marks as per the details given below:

First Year. Upto a maximum of total 05 marks

(But not more than three marks in any subject)

Second year. Upto a maximum of total 05 marks

(But not more than three marks in any subject)

21.2 The grace marks shall not be added to the aggregate marks.

22. SCRUTINY AND REVALUATION

Dr. Venk
28/10/20

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22.1 Scrutiny shall be allowed in only theory papers as per the rule of the University. Student can apply for scrutiny of answer-books after the declaration of result by depositing the requisite fee as prescribed by the University.

22.2 Revaluation of theory papers is permitted only with certain conditions as laid down by university.

23. UNFAIR MEANS:

Cases of unfair means shall be dealt as per the rules and regulations of the University.

24. The Academic Council shall have the power to relax any provision provided in the ordinance in any specific matter/situation subject to the approval of Executive Council of the University & such decision(s) shall be reported to the Chancellor of the University.

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28/10/20

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Shweta
28/10/2020

Sumit
28/10/2020