



Gandhi Memorial National College

Ambala cantt

(Affiliated to Kurukshetra University Kurukshetra)

Elective Courses Brochure

2024-25



List of courses that provide Elective Courses

Arts	Life Science	Physical Science	Commerce Management
Hindi	Botany	Mathematics	BBA
History	Zoology	Physics	B.Com
Economics	Chemistry	Computer Science	MBA
English		chemistry	
Mathematics		MCA	
Music (Instrument)			
Music(Vocal)			
Political Science			
Psychology			
Public Administration			
Punjabi			
Sanskrit			
Health and Physical Education			
Sociology			

List of MDC courses

Sr. No.	Subject	Course Type	Course Code	Nomenclature of Course
1.	Ancient Indian History	MDC-1	B23- AIH-104	Outline of Ancient Indian History (from earliest time to C.A.D 319)
		MDC-2	B23-AIH-204	Outline of Ancient Indian History (from earliest time to 319 .A.D to 1206 A.D)
		MDC-3	B23-AIH-303	History & Culture of Ancient Haryana
2.	Defence Studies	MDC-1	B23-DFS-104	Introduction to Military History
		MDC-2	B23-DFS-203	Introduction to Military Studies
		MDC-3	B23-DFS-303	Non-Traditional Security Threats
3.	Economics	MDC-1	B23-ECO-104	Basics of Economics
		MDC-2	B23-ECO-204	Indian Economic Environment
		MDC-3	B23-ECO-303	Current Issues in Global Economy
4.	English	MDC-1	B23-ENG-104	Introduction to Short Story and Basic Grammar
		MDC-2	B23-ENG-204	Introduction to Prose and Basic Comprehension
		MDC-2	B23-ENG-303	Introduction to Poetry and Phonetics
5.	Health & Physical Education		B23-PED -104	Fundamentals of Physical Education
			B23-PED-205	Fundamentals of Yoga
			B23-PED-303	Basics of Naturopathy

6.	Hindi	MDC-1	B23-HIN-104	हिन्दी भाषा और लिपि
		MDC-2	B23-HIN-204	हिन्दी किानी साहित्य एवं मानक रचना
		MDC-3	B23-HIN-303	मध्यकािीन काव्य एवं मानक हिन्दी व्याकरण एवं रचना
7.	History	MDC-1	B23-HIS-104	Glimpses of Ancient India
		MDC-2	B23-HIS-204	Glimpses of Medieval India
		MDC-3	B23-HIS-303	Glimpses of Modern India
8.	Home Science	MDC-1	B23-HSE-103	Basics of Home Science I (P-77)
		MDC-2	B23-HSE-203	Basics in Home Science II
		MDC-3	B23-HSE-302	Basics in Home Science- III
9.	Human Rights	MDC-1	B23-HRT-103	Introduction to Human Rights in India - I
		MDC-2	B23-HRT-203	Introduction to Human Rights in India - II
		MDC-3	B23-HRT-302	Introduction to Human Rights in India - III
10.	Library & Information Science	MDC-1	B23-LIS-104	Introduction To Library And Information Centres
		MDC-2	B23-LIS-204	Introduction To Information Sources (Print & Electronic)
		MDC-3	B23-LIS-303	Introduction to Library Services
11.	Music (Sitar)	MDC-1	B23-BMI-102	Terminology of Indian Music
		MDC-2	B23-BMI-202	Basics Terms of Indian Music
		MDC-3	B23-BMI-302	Forms of Vocal and Instrumental Music

12.	Music (Vocal)	MDC-1	B23-BMV-102	Introduction of Indian Music
		MDC-2	B23-BMV-202	Theory of Indian Music
		MDC-3	B23-BMV-302	Hindustani Music
13.	Philosophy	MDC-1	B23-PHI - 104	Philosophical Concepts-I
		MDC-2	B23-PHI - 204	Philosophical Concepts-II
		MDC-3	B23-PHI - 303	Philosophical Concept –III

Pool of Value Added Courses (VAC)

VAC-1		VAC-2		VAC-3		VAC-4	
Course Code	Nomenclature of Course	Course Code	Nomenclature of Course	Course Code	Nomenclature of Course	Course Code	Nomenclature of Course
B23-VAC-101	Human Values and Ethics	B23-VAC-201	Environmental Studies (Institute of Environment Studies)	B23-VAC-301	Constitutional Values and Fundamental Duties (Department of Political Science)	B23-VAC-401	Business Ethics (Department of Management)
B23-VAC-201	Environmental Studies (Institute of Environment Studies)	B23-VAC-101	Human Values and Ethics (Department of Philosophy)	B23-VAC-302	Yoga and Meditation (Department of Physical Education)	B23-VAC-402	Art of Happiness (Department of Psychology)
B23-VAC-303	Ethics and Culture (Department of Philosophy)		B23-VAC-403		Financial Literacy		
B23-VAC-304	Youth Red Cross Activities and First Aid Training		B23-VAC-404		Youth Red Cross Activities and First Aid Training		
B23-VAC-305	National Service Scheme (NSS) Activities and Training		B23-VAC-405		National Service Scheme (NSS) Activities and Training		
B23-VAC-306	National Cadet Corps (NCC) Activities and Training		B23-VAC-406		National Cadet Corps (NCC) Activities and Training		

B23-VAC-307	Panchkosha: Holistic Development of Personality (Department of Sanskrit, Pali & Prakrit)	B23-VAC-407	Ecology and Environment (Department of Zoology)
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Pool of Skill Enhancement Courses (SEC)

SEC-1@3credit		SEC-2@3credit		SEC-3@3credit		SEC-4@2credit	
Course Code	Course Title	Course Code	Course Title	Course Code	Course Title	Course Code	Course Title
B23-SEC-101	Office and Spreadsheet Tools Learning	B23-SEC-201	Cloud Computing Skills	B23-SEC-301	Advance IT Skills	B23-SEC-401	Basic Statistical Tools
B23-SEC-102	Advance Spreadsheet Tools	B23-SEC-202	Business Analytics	B23-SEC-302	Data Management	B23-SEC-402	Manuscript Writing
B23-SEC-103	Basic IT Tools	B23-SEC-203	Calculation Skills with Vedic Mathematics-1	B23-SEC-303	Calculation Skills with Vedic Mathematics-II	B23-SEC-403	Balanced Diet Planning
B23-SEC-104	Essentials of Python	B23-SEC-204	Frozen Food Technology	B23-SEC-304	Plant Hybridization	B23-SEC-404	Food Adulteration Testing
B23-SEC-105	Introductory Course in R	B23-SEC-205	Chemistry of Food Flavours and Colorants	B23-SEC-305	Vertical Farming	B23-SEC-405	IPR and Patent Writing
B23-SEC-106	Computer Programming in C	B23-SEC-206	Public Speaking in Hindi Language and Leadership	B23-SEC-306	Floriculture	B23-SEC-406	Basic Mathematical Techniques
B23-SEC-207		Soft Skills		B23-SEC-307		Bio fertilizers	

B23-SEC-208	Harmonium Playing	B23-SEC-308	Dairy Processing
B23-SEC-209	Guitar Playing	B23-SEC-309	Anuvad Kala
B23-SEC-210	Light Vocal Music	B23-SEC-310	Communication in Professional Life
B23-SEC-211	Tabla Playing	B23-SEC-311	Report Writing
B23-SEC-212	Integrating Marketing Communications	B23-SEC-312	Kathak Dance
B23-SEC-213	Miniature Painting	B23-SEC-313	Classical Singing

Pool of Ability Enhancement Courses (AEC)

Semester-1		Semester-2		Semester-3		Semester-4	
AEC-1		AEC-2		AEC-3		AEC-4	
Course Code	Nomenclature of Course	Course Code	Nomenclature of Course	Course Code	Nomenclature of Course	Course Code	Nomenclature of Course
B-AEC-E101	English Language and Communication: Level-1	B-AEC-E201	English Language and Communication: Level-2	B-AEC-E301	English Language and Communication: Level-3	B-AEC-E401	English Language and Communication: Level-4
B-AEC-H101	एवम -1	B-AEC-H201	एवम -2	B-AEC-H301	एवम -3	B-AEC-H401	एवम -4
B-AEC-S101	एवम :-1	B-AEC-S201	एवम :-2	B-AEC-S301	एवम :-3	B-AEC-S401	एवम :-4
B-AEC-P101	-1	B-AEC-P201	-2	B-AEC-P301	-3	B-AEC-P401	-4
<p>Students will opt for one AEC from the pool in this category offered by Department/ Institute/ College. Department/Institute/College can offer AEC in other Modern Indian languages (MILs) after getting approval from the university</p>		<p>Students will opt for one AEC from the pool in this category offered by Department/ Institute/College. Department/Institute/College can offer AEC in other Modern Indian languages (MILs) after getting approval from the university</p>		<p>Students will opt for one AEC from the pool in this category offered by Department/ Institute/ College. Department/Institute/College can offer AEC in other Modern Indian languages (MILs) after getting approval from the university</p>		<p>Students will opt for one AEC from the pool in this category offered by Department/ Institute/College. Department/Institute/College can offer AEC in other Modern Indian languages (MILs) after getting approval from the university</p>	

Pool of Minor (Vocational Courses)

VOC for Semester III and V		VOC for Semester IV		VOC for Semester VI	
Course code	Course Title	Course code	Course Title	Course code	Course Title
B23-VOC-101	Animation	B23-VOC-201	Graphic Designing	B23-VOC-301	Mobile App Designing
B23-VOC-102	Apiculture	B23-VOC-202	Vermicomposting	B23-VOC-302	Poultry Farming
B23-VOC-103	Baking Techniques	B23-VOC-203	Chocolate Crafts	B23-VOC-303	Food Packaging
B23-VOC-104	Block Printing	B23-VOC-204	CAD for Fashion Designing	B23-VOC-304	Textile Colouring and Designing
B23-VOC-105	Doodle Art	B23-VOC-205	Electronic Product Testing	B23-VOC-305	Analytics with Python
B23-VOC-106	Web Designing	B23-VOC-206	3-D Graphics	B23-VOC-306	Data Analytics with R
B23-VOC-107	Computer Hardware Maintenance	B23-VOC-207	Maintenance of Electrical Appliances	B23-VOC-307	Electronic Gadgets Repairing
B23-VOC-108	IT Return Filing	B23-VOC-208	GST Return Filing	B23-VOC-308	Digital Marketing
B23-	Organic	B23-	Floriculture	B23-	Mushroom

VOC-109	Farming	VOC-209		VOC-309	Cultivation
B23-VOC-110	Interior Decoration	B23-VOC-210	Print Designing	B23-VOC-310	Clinical Lab Testing
B23-VOC-111	Skin and Hair Care	B23-VOC-211	Soft Toys Making	B23-VOC-311	Tattoo Making
B23-VOC-112	Photography	B23-VOC-212	Photo and Video Editing	B23-VOC-312	Pod Casting and Reel Making
B23-VOC-113	Basic Physiotherapy Techniques	B23-VOC-213	Training in Yogassana	B23-VOC-313	Training in Aerobics
B23-VOC-114	Refrigeration and Air Conditioning	B23-VOC-214	PCB Designing and Fabrication	B23-VOC-314	Typing Shorthand in English
B23-VOC-115	Front Desk Management	B23-VOC-215	Rangmanch	B23-VOC-315	Typing Shorthand in Hindi
B23-VOC-116	DIY Toy Tools Designing	B23-VOC-216	Software Testing	B23-VOC-316	Digital Film Production
B23-VOC-117	Small Scale Catering	B23-VOC-217	Nursery and Gardening	B23-VOC-317	Soil and Water Testing
B23-VOC-118	Mobile Phone Repairing	B23-VOC-218	Lab Equipments Quality Assurance	B23-VOC-318	Fish Farming
B23-VOC-119	Food Processing	B23-VOC-219	Food Quality Testing	B23-VOC-319	Event Management

VOC for Semester III and V		VOC for Semester IV		VOC for Semester VI	
Course code	Course Title	Course code	Course Title	Course code	Course Title
B23-VOC-135	Lader Kitchen	B23-VOC-235	Tourism in India	B23-VOC-335	Bar Operation
B23-VOC-136	Mice Tourism	B23-VOC-236	Banquet & Catering Management	B23-VOC-336	Information & Communication Technology in Tourism
B23-VOC-137	English for Media & Journalism	B23-VOC-237	Guiding & Escorting Skills in Tourism	B23-VOC-337	Translation and Interpretation Studies
B23-VOC-238			English for Tourism and Hospitality		

Kurukshetra University, Kurukshetra
(Established by the State Legislature Act-XII of 1956)
("A++" Grade, NAAC Accredited)



**Scheme of Examination
for
Post Graduate Programme
Master of Business Administration**

as per NEP 2020
Curriculum and Credit Framework for Postgraduate Programme

With Internship and CBCS-LOCF
With effect from the session 2024-25 (in phased manner)

UNIVERSITY SCHOOL OF MANAGEMENT
FACULTY OF COMMERCE AND MANAGEMENT

KURUKSHETRA UNIVERSITY, KURUKSHETRA -136119
HARYANA, INDIA


Chairperson
University School of Management
Kurukshetra University,
KURUKSHETRA-136119.

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Kurukshetra University, Kurukshetra

Scheme of Examination for Postgraduate Programme <MBA (Under Budgeted Scheme and under SFS)>

as per NEP 2020 Curriculum and Credit Framework for Postgraduate Programme

(CBCS LOCF) with effect from the session 2024-25 (in phased manner)

Framework-2

Scheme-S

Semester	Course Type	Course Code	Nomenclature of course	Theory (T)/ Practical (P)	Credits	Contact hours per week				Internal Assessment Marks	End Term Examination Marks	Total Marks	Examination hours	
						L	T	P	Total					
1	CC-1	M24-MBA-101	Management Process and Organizational Behaviour	T	4	26	3	1	0	4	30	70	100	3
	CC-2	M24-MBA-102	Managerial Economics	T	4		3	1	0	4	30	70	100	3
	CC-3	M24-MBA-103	Statistics for Business Decisions	T	4		3	1	0	4	30	70	100	3
	CC-4	M24-MBA-104	Business Communication	T	4		3	1	0	4	30	70	100	3
	CC-5	M24-MBA-105	Business Eco-System and Environment	T	4		3	1	0	4	30	70	100	3

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	DEC-1	M24-MBA-106	Financial Statements and Analysis	T	4		3	1	0	4	30	70	100	3
	SEMINAR	M24-MBA-107	Seminar	S	2		0	0	0	2	0	50	50	1
2	CC-6	M24-MBA-201	Optimization Models for Business Decisions	T	4	26	3	1	0	4	30	70	100	3
	CC-7	M24-MBA-202	Business Research Methodology	T	4		3	1	0	4	30	70	100	3
	CC-8	M24-MBA-203	Marketing Management	T	4		3	1	0	4	30	70	100	3
	CC-9	M24-MBA-204	Corporate Finance	T	4		3	1	0	4	30	70	100	3
	CC-10	M24-MBA-205	Human Resource Management	T	4		3	1	0	4	30	70	100	3
	DEC-2	M24-MBA-206	Production and Operations Management	T	4		3	1	0	4	30	70	100	3
	CHM	M24-CHM-201	Constitutional, Human and Moral Values, and IPR	T	2		2	0	0	2	15	35	50	3

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	Internship	M24-INT-200	An internship course of 4 Credits of 4-6 weeks duration during summer vacation after IInd semester is to be completed by every student. Internship can be either for enhancing the employability or for developing the research aptitude.				50	50	100					
3	CC-11	M24-MBA-301	Strategic Management	T	4	26	3	1	0	4	30	70	100	3
	CC-12	M24-MBA-302	Business Laws and Governance	T	4		3	1	0	4	30	70	100	3
	Discipline Elective Course (DEC)-3			T	4		3	1	0	4	30	70	100	3
	Discipline Elective Course (DEC)-4			T	4		3	1	0	4	30	70	100	3
	Discipline Elective Course (DEC)-5			T	4		3	1	0	4	30	70	100	3
	Discipline Elective Course (DEC)-6			T	4		3	1	0	4	30	70	100	3
	OEC	M24-OEC-350	Entrepreneurship and Start up Management	T	2		2	0	0	2	15	35	50	3
4	CC-13	M24-MBA-401	Corporate Social Responsibility and Sustainability	T	4	26	3	1	0	4	30	70	100	3
	CC-14	M24-MBA-402	AI Applications in Business	T	4		3	1	0	4	30	70	100	3

		Discipline Elective Course (DEC)-7	T	4		3	1	0	4	30	70	100	3
		Discipline Elective Course (DEC)-8	T	4		3	1	0	4	30	70	100	3
		Discipline Elective Course (DEC)-9	T	4		3	1	0	4	30	70	100	3
		Discipline Elective Course (DEC)-10	T	4		3	1	0	4	30	70	100	3
	EEC	M24-EEC-419	Entrepreneurship and Start up Management	T	2	2	0	0	2	15	35	50	3
4	The students who will opt Dissertation/Project Work in 4 th Semester will study the following subjects.												
		Discipline Elective Course (DEC)-7	T	4	26	3	1	0	4	30	70	100	3
		Discipline Elective Course (DEC)-8	T	4		3	1	0	4	30	70	100	3
		Discipline Elective Course (DEC)-9	T	4		3	1	0	4	30	70	100	3
	EEC	M24-EEC-419	Entrepreneurship and Start up Management	T	2	2	0	0	2	15	35	50	3
	Dissertation/Project work	M24-MBA-418	Dissertation/ Research Report/Project Report		12	0	0	0	12	0	300	300	

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Specializations Offered: The department would offer Six specializations viz. Marketing, Finance, Human Resource Management, Business Analytics, Entrepreneurship Development, and International Business in MBA from third semester onwards in the second year. A student can opt any **One** specialization out of six specializations. The student will opt elective courses of that specialization in 3rd and 4th Semester. The department reserves the right to offer specialization subject to the availability of resources as per university rules.

Note: Depending upon the requirement, the department will offer **Four** elective courses out of the following six elective courses. Thus top four (In terms of student's strength in each) would be offered for a particular batch.

Semester -III

Discipline Elective Course (DEC)-3		
(Student will be offered one course out of the following according to the specialization)		
Specialization	Paper Code	Title of Course
Marketing	M24-MBA-313	Advertising Management
Finance	M24-MBA-323	Investment Management
Human Resource Management	M24-MBA-333	Industrial Relations and Employment Laws
Business Analytics	M24-MBA-343	Business Analysis using Excel
Entrepreneurship Development	M24-MBA-353	Fundamentals of Entrepreneurship
International Business	M24-MBA-363	International Marketing

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Discipline Elective Course (DEC)-4		
(Student will be offered one course out of the following according to the specialization)		
Specialization	Paper Code	Title of Course
Marketing	M24-MBA-314	Consumer Behaviour
Finance	M24-MBA-324	Banking and Financial Services
Human Resource Management	M24-MBA-334	Compensation and Reward Management
Business Analytics	M24-MBA-344	Social Media Analytics
Entrepreneurship Development	M24-MBA-354	Social Entrepreneurship
International Business	M24-MBA-364	India's Foreign Trade and Policy

Discipline Elective Course (DEC)-5		
(Student will be offered one course out of the following according to the specialization)		
Specialization	Paper Code	Title of Course
Marketing	M24-MBA-315	Digital and Social Media Marketing
Finance	M24-MBA-325	Risk Management and Insurance
Human Resource Management	M24-MBA-335	Talent Acquisition and Performance Management
Business Analytics	M24-MBA-345	Business Data Mining
Entrepreneurship Development	M24-MBA-355	Family Business Management
International Business	M24-MBA-365	Foreign Exchange Management

Discipline Elective Course (DEC)-6		
(Student will be offered one course out of the following according to the specialization)		
Specialization	Paper Code	Title of Course
Marketing	M24-MBA-316	Marketing Research and Analytics
Finance	M24-MBA-326	Project Planning and Management
Human Resource Management	M24-MBA-336	Human Resource Metrics and Analytics
Business Analytics	M24-MBA-346	Data Analytics using R
Entrepreneurship Development	M24-MBA-356	New Venture Creation and Management
International Business	M24-MBA-366	International Logistics

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Semester -IV

Discipline Elective Course (DEC)-7		
(Student will be offered one course out of the following according to the specialization)		
Specialization	Paper Code	Title of Course
Marketing	M24-MBA-413	Service Marketing
Finance	M24-MBA-423	Foreign Exchange Management
Human Resource Management	M24-MBA-433	Change Management and Organizational Development
Business Analytics	M24-MBA-443	IOT and Big Data
Entrepreneurship Development	M24-MBA-453	Enterprise Appraisal and Financing
International Business	M24-MBA-463	Export-Import Procedures and Documentation

Discipline Elective Course (DEC)-8		
(Student will be offered one course out of the following according to the specialization)		
Specialization	Paper Code	Title of Course
Marketing	M24-MBA-414	International Marketing
Finance	M24-MBA-424	Financial Derivatives
Human Resource Management	M24-MBA-434	Group Dynamics and Leadership Excellence
Business Analytics	M24-MBA-444	Predictive Analytics for Business Decisions
Entrepreneurship Development	M24-MBA-454	MSME Policy Framework
International Business	M24-MBA-464	International Strategic Management

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Discipline Elective Course (DEC)-9		
(Student will be offered one course out of the following according to the specialization)		
Specialization	Paper Code	Title of Course
Marketing	M24-MBA-415	Sales and Distribution Management
Finance	M24-MBA-425	Private Equity and Wealth Management
Human Resource Management	M24-MBA-435	Counselling, Mentoring and Negotiation Skills
Business Analytics	M24-MBA-445	Data Analysis using Python
Entrepreneurship Development	M24-MBA-455	Marketing Management of New Ventures
International Business	M24-MBA-465	International Financial Markets


Discipline Elective Course (DEC)-10		
(Student will be offered one course out of the following according to the specialization)		
Specialization	Paper Code	Title of Course
Marketing	M24-MBA-416	Supply Chain and Logistics Management
Finance	M24-MBA-426	Corporate Restructuring and Value Creation
Human Resource Management	M24-MBA-436	Training, Learning and Development
Business Analytics	M24-MBA-446	Financial Modeling
Entrepreneurship Development	M24-MBA-456	Financial Innovation and Entrepreneurship
International Business	M24-MBA-466	Regional Economic Blocks

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**Programme Learning Outcomes(PLOs) for MBA(2-Year) Programme as per
NEP-2020**

PLOs	Master Degree in Business Administration
	After the completion of Master degree in Business Administration the student will be able to:
PLO-1: Knowledge and Understanding	Demonstrate the fundamental and advanced knowledge of the subject and understanding of recent developments and issues, including methods and techniques, related to the Business Administration.
PLO-2: General Skills	Acquire the general skills required for performing and accomplishing the tasks as expected to be done by a skilled professional in the fields of Business Administration.
PLO-3: Technical/ Professional Skills	Demonstrate the learning of advanced cognitive technical/professional skills required for completing the specialized tasks related to the profession and for conducting and analyzing the relevant research tasks indifferent domains of the Business Administration.
PLO-4: Communication Skills	Effectively communicate the attained skills of the Business Administration in well-structured and productive manner to the society at large.
PLO-5: Application of Knowledge and Skills	Apply the acquired knowledge and skills to the problems in the subject area, and to identify and analyze the issues where the attained knowledge and skills can be applied by carrying out research investigations to formulate evidence-based solutions to complex and unpredictable problems associated with the field of Business Administration or otherwise.
PLO-6: Critical Thinking and Research Aptitude	Attain the capability of critical thinking in intra/inter-disciplinary areas of the Business Administration enabling to formulate, synthesise, and articulate issues for designing of research proposals, testing hypotheses, and drawing inferences based on the analysis.
PLO-7: Constitutional, Humanistic, Moral Values and Ethics	Know constitutional, humanistic, moral and ethical values, and intellectual property rights to become a scholar/professional with ingrained values in expanding knowledge for the society, and to avoid unethical practices such as fabrication, falsification or misrepresentation of data or committing plagiarism.
PLO-8: Capabilities/Qualities and Mindset	To exercise personal responsibility for the outputs of own work as well as of group/team and for managing complex and challenging work(s) that requires new/strategic approaches.
PLO-9: Employability and Job-Ready Skills	Attain the knowledge and skills required for increasing employment potential, adapting to the future work and responding to the rapidly changing demands of the employers/industry/society with time.


 Chairperson
 University School of Management
 Kurukshetra University,
 KURUKSHETRA-136119.

Kurukshetra University, Kurukshetra

(Established by the State Legislature Act-XII of 1956)

("A++" Grade, NAAC Accredited)



Scheme of Examination for Post Graduate Programme

Master of Computer Applications (MCA)

as per NEP 2020

Curriculum and Credit Framework for Postgraduate Programme

With Multiple Entry-Exit, Internship and CBCS-LOCF

With effect from the session 2024-25 (in phased manner)

DEPARTMENT OF COMPUTER SCIENCE & APPLICATIONS
FACULTY OF SCIENCES

KURUKSHETRA UNIVERSITY, KURUKSHETRA -136119

HARYANA, INDIA

Abbreviations used

Sr. No	Full form	Abbreviation	Description
1	Core Course	CC	Compulsory core courses for the programme. CC will be a theory course of 4 credits.
2	Discipline Elective Course	DEC	Elective Courses offered by the DCI. A student can opt one course out of 4 given options for that DEC course. One course can be opted in a semester through MOOCs from SWAYAM or other portals. DEC will be a theory course of 4 credits.
3	Practicum	PC	Practical course of 4 credits which will be compulsory in all semesters for all students except in the 4 th Semester when a student opts Dissertation work.
4	Seminar	S	The seminar is a Skill Enhancement Course (SEC) aiming to impart skills of self-learning, comprehension, communication and presentation.
5	Constitutional, Human, Moral Values and IPR	CHM	CHM is a compulsory Value Added theory Course of 2 credits.
6	Open Elective Course	OEC	OEC is a Multidisciplinary course of 2 credits. Every student will opt for a course from the pool of OEC courses other than Computer Science.
7	Employability and Entrepreneurship Skills Course	EEC	EEC is a Vocational or SEC course aiming to increase the employment and entrepreneurship potential of students of programme.
8	Theory	Th	
9	Practical	P	
9	Lecture	L	
10	Tutorial	T	
11	Dissertation	D	A research course of 12 credits, where a student will undertake research work and submit a dissertation as per rules prescribed by the university.
12	Programme Learning Outcomes	PLOs	
13	Course Learning Outcomes	CLOs	

Programme Learning Outcomes (PLOs): As per NEP-2020, PLOs include outcomes specific to disciplinary areas of learning associated with the chosen field (s) of learning as well as generic learning outcomes. These also include transferable skills and competencies that post-graduates of all programmes of study should acquire and be able to demonstrate for the award of the Degree. The programme learning outcomes would also focus on knowledge and skills that prepare students for further study, employment, research, and responsible citizenship.

The PLOs of the **MCA** programme are stated as per the following domains:

PLOs	After the completion of MCA degree, a student will be able to:
PLO-1: Knowledge and Understanding	Demonstrate the deep understanding and advanced knowledge in the core areas of Computer Applications subject and understanding of recent developments and issues, including concepts, theories, principles, methods, and techniques in different areas of Computer Applications.
PLO-2: General Skills	Acquire the general skills required for performing and accomplishing the tasks as expected to be done by a skilled professional in the fields of Computer Applications.
PLO-3: Technical/ Professional Skills	Demonstrate the learning of advanced cognitive computing, programming, formulating models, using various softwares, and other teaching and professional skills required for completing the specialized tasks related to the profession and for conducting and analyzing the relevant research tasks in different domains of Computer Applications.
PLO-4: Communication Skills	Effectively communicate the attained skills in different areas of Computer Applications in a precise, well-structured, and unambiguous mathematical language through effective oral and/or written expressions to the society at large.
PLO-5: Application of Knowledge and Skills	Apply the acquired knowledge and skills to the problems in the subject area, and identify and analyze the issues where the attained knowledge and skills can be applied by carrying out various industry-oriented projects and/or research investigations to formulate appropriate solutions to various problems ranging from basic to complex and unpredictable problems associated with the field of Computer Applications or allied fields.
PLO-6: Critical Thinking and Research Aptitude	Attain the capabilities of critical thinking, logical reasoning, investigating problems, analysis, problem-solving, and application of computer science methods/techniques, in intra/inter-disciplinary areas of Computer Applications , enabling to develop skills to solve problems having applications in other disciplines and/or in the real world and to formulate, synthesize, and articulate issues for analyzing, designing, and implementing of project/research proposals, testing hypotheses, and drawing inferences based on the analysis.
PLO-7: Constitutional, Humanistic, Moral Values and Ethics	Know constitutional, humanistic, moral and ethical values, and intellectual property rights to become a scholar/professional with ingrained values in expanding knowledge for the society, and to avoid unethical practices such as fabrication, falsification or misrepresentation of data or committing plagiarism.
PLO-8: Capabilities/ qualities and mindset	To exercise personal responsibility for the outputs of own work as well as of group/team and for managing complex and challenging work(s) that requires new/strategic approaches.
PLO-9: Employability and job-ready skills	Attain the knowledge and skills required for increasing employment potential, adapting to the future work and responding to the rapidly changing demands of the employers/industry/society with time, and to have strong foundation in basic and applied aspects of Computer Applications so as to venture into research in different areas of computer applications, jobs in scientific and various industrial sectors and/or teaching career in Computer Applications.

Kurukshetra University, Kurukshetra

Scheme of Examination for Postgraduate Programme Master of Computer Applications (MCA)

as per NEP-2020 Curriculum and Credit Framework for Postgraduate Programmes

(CBCS LOCF) with effect from the session 2024-25 (in phased manner)

Framework-2

Scheme-P

Semester	Course Type	Course Code	Nomenclature of course	Theory (Th)/ Practical (P)/ Seminar/ CHM/OEC/EEC/ Dissertation/ Project Work	Credits		Contact hours per week L: Lecture P: Practical T: Tutorial				Internal Assessment Marks	End Term Examination Marks	Total Marks	Examination hours
					Course	Semester Total	L	T	P	Total				
1	CC-1	M24-CAP-101	Client Side Web Technology	Th	4	26	4	0	0	4	30	70	100	3
	CC-2	M24-CAP-102	Operating System & Linux	Th	4		4	0	0	4	30	70	100	3
	CC-3	M24-CAP-103	Data Structure	Th	4		4	0	0	4	30	70	100	3
	CC-4	M24-CAP-104	Programming in Java	Th	4		4	0	0	4	30	70	100	3
	PC-1	M24-CAP-105	Practical -1	P	4		0	0	8	8	30	70	100	4
	PC-2	M24-CAP-106	Practical -2	P	4		0	0	8	8	30	70	100	4
	Seminar	M24-CAP-107	Seminar	S	2		0	0	0	2	0	50	50	1
	BC-1*	M24-CAP-108	Computer Fundamentals and Problem Solving Through C	Th	0		4	0	0	4	30	70	100	3
	BC-2*	M24-CAP-109	Practical - 3	P	0		0	0	2	2	15	35	50	4
*The students who have passed computer science as a subject in graduation/ 10+2 level/ any diploma course from a recognized university are not required to do the bridge course in first semester.														
2	CC-5	M24-CAP-201	Server Side Web Technology	Th	4	26	4	0	0	4	30	70	100	3
	CC-6	M24-CAP-202	Computer Network	Th	4		4	0	0	4	30	70	100	3

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Semester	Course Type	Course Code	Nomenclature of course	Theory (Th)/ Practical (P)/ Seminar/ CHM/OEC/ EEC/ Dissertation/ Project Work	Credits		Contact hours per week L: Lecture P: Practical T: Tutorial				Internal Assessment Marks	End Term Examination Marks	Total Marks	Examination hours
					Course	Semester Total	L	T	P	Total				
	CC-7	M24-CAP-203	Database Management Systems	Th	4	26	4	0	0	4	30	70	100	3
	CC-8	M24-CAP-204	Artificial Intelligence	Th	4		4	0	0	4	30	70	100	3
	PC-3	M24-CAP-205	Practical-3	P	4		0	0	8	8	30	70	100	4
	PC-4	M24-CAP-206	Practical-4	P	4		0	0	8	8	30	70	100	4
	BC-3 [#]	M24-CAP-207	Mathematical Foundations for Computer Science	Th	0		4	0	0	4	30	70	100	3
	BC-4 [#]	M24-CAP-208	Practical - 6	P	0		0	0	2	2	15	35	50	4
	CHM	M24-CHM-201	Constitutional, Human and Moral Values, and IPR	Th	2		2	0	0	2	15	35	50	3
	Internship	M24-INT-200	An internship course of 4 Credits of 4-6 weeks duration during summer vacation after 2nd semester is to be completed by every student. Internships can be either for enhancing the employability or for developing the research aptitude.								50	50	100	
#The students who have passed mathematics/statistics as a subject in graduation/ 10+2 level from a recognized university are not required to do the bridge course in second semester.														
3	CC-9	M24-CAP-301	Design and Analysis Of Algorithms	Th	4	26	4	0	0	4	30	70	100	3
	CC-10	M24-CAP-302	Machine Learning in Python	Th	4		4	0	0	4	30	70	100	3
	DEC-1 (One course is to be opted out of M24-CAP-303 to M24-CAP-305)	M24-CAP-303	Ethical Hacking	Th	4		4	0	0	4	30	70	100	3
		M24-CAP-304	Computer Architecture	Th	4		4	0	0	4	30	70	100	3
	M24-CAP-305	May be offered through MOOC/ Swayam Portal	Th											
	DEC-2	M24-CAP-306	Computer Graphics	Th	4		4	0	0	4	30	70	100	3

Semester	Course Type	Course Code	Nomenclature of course	Theory (Th)/ Practical (P)/ Seminar/ CHM/OEC/ EEC/ Dissertation/ Project Work	Credits		Contact hours per week L: Lecture P: Practical T: Tutorial				Internal Assessment Marks	End Term Examination Marks	Total Marks	Examination hours
					Course	Semester Total	L	T	P	Total				
	(One course is to be opted out of M24-CAP-306 to M24-CAP-308)	M24-CAP-307	Big Data & Pattern Recognition	Th	4	26	4	0	0	4	30	70	100	3
		M24-CAP-308	May be offered through MOOC/ Swayam Portal	Th										
	PC-5	M24-CAP-309	Practical-5	P	4		0	0	8	8	30	70	100	4
	PC-6	M24-CAP-310	Practical-6	P	4		0	0	8	8	30	70	100	4
	OEC	M24-OEC-308	Data Analytics using Excel	Th	2		2	0	0	2	15	35	50	3
4	DEC-3 (One course is to be opted out of M24-CAP-401 to M24-CAP-404)	M24-CAP-401	Object Oriented Design and Uml	Th	4	4	0	0	4	30	70	100	3	
		M24-CAP-402	Data Science	Th	4	4	0	0	4	30	70	100	3	
		M24-CAP-403	Theory of Computation	Th	4	4	0	0	4	30	70	100	3	
		M24-CAP-404	May be offered through MOOC/ Swayam Portal	Th										
	DEC-4 (One course is to be opted out of M24-CAP-405 to M24-CAP-408)	M24-CAP-405	Blockchain Technology	Th	4	4	0	0	4	30	70	100	3	
		M24-CAP-406	Biometric Security	Th	4	4	0	0	4	30	70	100	3	
		M24-CAP-407	Soft Computing	Th	4	4	0	0	4	30	70	100	3	
		M24-CAP-408	May be offered through MOOC/ Swayam Portal	Th										
DEC-5	M24-CAP-409	Mobile Computing	Th	4	4	0	0	4	30	70	100	3		

Semester	Course Type	Course Code	Nomenclature of course	Theory (Th)/ Practical (P)/ Seminar/ CHM/OEC/ EEC/ Dissertation/ Project Work	Credits		Contact hours per week L: Lecture P: Practical T: Tutorial				Internal Assessment Marks	End Term Examination Marks	Total Marks	Examination hours
					Course	Semester Total	L	T	P	Total				
	(One course is to be opted out of M24-CAP-409 to M24-CAP-412)	M24- CAP -410	Cloud Computing and IOT	Th	4		4	0	0	4	30	70	100	3
		M24- CAP -411	Principles of Programming Languages	Th	4		4	0	0	4	30	70	100	3
		M24- CAP -412	May be offered through MOOC/ Swayam Portal	Th	4		4	0	0	4	30	70	100	3
		EEC	M24- CAP -413	Cyber Security Fundamentals	Th		2	2	0	0	2	15	35	50
	Dissertation / Project	M24-CAP-414	Dissertation/Project	D	12	0	0	0	12	0	300	300	-	

NOTES:

- 1) A student can opt one elective course in a semester, i.e. up to 40% of total elective courses mentioned in the scheme, through SWAYAM/NPTEL or other online portals recognized by the UGC and the university.
- 2) Students who have not passed Computer Science as a subject at the graduation level, 10+2 level, or through any diploma course from a recognized university are required to undertake a bridge course in the first semester. Successful completion of this bridge course is mandatory for eligibility to obtain the MCA degree. However, it should be noted that while the marks obtained in the bridge course will be reflected on the final year grade sheet, they will not be included in the calculation of the CGPA/SGPA. Similarly, students who have not studied Mathematics/Statistics as a subject at the graduation level or 10+2 level from a recognized university are required to complete a bridge course in the second semester. Passing this bridge course is also mandatory for eligibility to obtain the MCA degree. As with the first-semester bridge course, the marks obtained will appear on the final year grade sheet but will not contribute to the CGPA/SGPA.

Ramobhla

Table-1

Course composition- Theory/ Theory +Tutorial			
Course Credit	Internal Assessment marks	End term exam marks	Total marks
2	15	35	50
4	30	70	100

Table-2: Course composition- Theory + Practical

Course Credit	Theory		Practical		Total marks
Theory +Practical	Internal Assessment marks	End term exam marks	Internal Assessment marks	End term exam marks	
2+0	15	35	-	-	50
4+0	30	70	-	-	100
0+4	-	-	30	70	100

Table- 3: Distribution of Internal Assessment Marks (Theory)

Total Internal Assessment Marks (Theory)	Class Participation	Seminar/Presentation/Assignment/ Quiz/class test, etc.	Mid-Term Exam
15	4	4	7
30	5	10	15

Table -4 Distribution of Internal Assessment Marks (Practical)

Total Internal Assessment Marks (Practicum)	Class Participation	Seminar/Demonstration/Viva-Voce/ Lab record, etc.	Mid-Term Exam
30	5	10	15