SCHEME OF EXAMINATION &

SYLLABUS

of

UG Programme (Interdisciplinary) B.Sc. (Multimedia)

(Scheme: D)

As per National Education Policy 2020

(Multiple Entry-Exit, Internships and Choice Based Credit System)

w.e.f. Academic Session: 2024-2025



INSTITUTE OF MASS COMMUNICATION & MEDIA TECHNOLOGY

Kurukshetra University, Kurukshetra

(A++ Grade, NAAC Accredited)

under

Faculty of Commerce and Management Kurukshetra University, Kurukshetra

Scheme of Examination of U.G. Programme (Interdisciplinary) B.Sc. (Multimedia) Scheme-D in accordance with NEP 2020 (Multiple Entry-Exit, Internships and Choice Based Credit System) w.e.f. Academic Session 2024-25.

Semester-V

Course	Course Title	Course	Cor	ıtact		Hours	Credit	Marks					Duration
Code		Type	per	Wee	ek		S					of Exam	
			L	T	P	Tota		T	IA	P	IA	Total	
						1			(T)		(P)		
B23- MMT-501	Interactive Courseware	CC-A5	3	1	-	4	4	70	30	-	-	100	3 Hours
D22	Designing	GG DZ		1		4	4	70	20			100	2.77
B23- MMT-502	Social Media Marketing	CC-B5	3		-	4	4	70	30	-	-	100	3 Hours
B23- MMT-503	Applications of Multimedia	CC-C5	3	1	-	4	4	70	30	-	-	100	3 Hours
	As available in pool of subjects approved by KUK	CC-M5 (V)	3	-	2	5	4	50	20	20	10	100	3 Hours
	Internship		-	-	-	-	4	-	-	-	-	100	-
			•		•	Total C	Credits :20	Tota	l Marks		•	500	

Semester-VI

Course Code	Course Title				Contact per Week		ours Credits	Marks					Duration of Exam
			Ĺ	T	P	Total		T	IA (T)	P	IA (P)	Total	
B23- MMT-601	Information Security	CC-A6	3	1	-	4	4	70	30	-	-	100	3 Hours
B23- MMT-602	Video Production	CC-B6	3	-	2	5	4	50	20	20	10	100	3 Hours
B23- MMT-603	Artificial Intelligence	CC-C6	3	1	-	4	4	70	30	-	-	100	3 Hours
B23- MMT-604	Organization Portfolio	CC-M6	3	1	-	4	4	70	30	-	-	100	3 Hours
	As available in pool of subjects approved by KUK	CC-M7 (V)	-	-	-	-	4	50	20	20	10	100	3 Hours
	I		-1			Total Cre	edits 20	Tota	l Marks		1	500	

Exit Option: Bachelor in Multimedia (B.Sc. Multimedia) with 132 Credits

Session: 2024-25							
Part A - Introduction							
Name of Programme	B.Sc. Multimedia						
Semester	5 th						
Name of the Course	Interactive C	Courseware					
	Designing						
Course Code	B23-MMT-50)1					
Course Type	CC-A5						
Level of the course	300-399						
Pre-requisite for the course (if any)							
Course Learning Outcomes (CLO)	CLO 1: Under	rstand the learning princi	ples.				
After completing this course, the learner will		the learning models for					
be able to:	designing.						
		the design process of co	ourseware content for				
	e-learning.						
		luate the courseware cor	ntent and learning				
	system.						
Credits	Theory	Tutorial	Total				
	3	1	4				
Teaching Hours per week	3	1	4				
Internal Assessment Marks	30	0	30				
End Term Exam Marks	70	0	70				
Max. Marks	100	0	100				
Examination Time	3 hours						

Unit	Topics	Contact Hours
I	Coursework – introduction need and Structure	15
	Components of multimedia Instructional material Dale's Cone of	
	Learning	
	Principles, methods and types of learning	
	ADDIE Model & Process	
II	Courseware design knowledge and skills	15
	Selecting subjects for the interactive courseware	
	Preparing synopsis for a courseware Sequencing of learning points	
	Role and responsibilities of team members	
III	Courseware development life cycle	15
	Hypermedia authoring and publishing	
	Adding audio-visual contents	
	Creating self check exercises	

	Evaluating the quality of Courseware						
IV	Features of Smart Classroom	15					
	Computer aided learning-process, types, pro	s an	d cons				
	Future of computer aided learning: ICT, m-	learn	ing, flipped learning,				
	virtual university						
	Learning Management System(LMS): Moodles, clickers, Massive						
	Open online Course(MOOCs)						
			Total Contact Hours	60			
	Suggested Evaluati	on N	Tethods				
	Internal Assessment: 30		End Term Ex	amination: 70			
> The	ory	30	> Theory:	70			
• Class	• Class Participation: 5		Written Ex	camination			

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Recommended Books/e-resources/LMS:

• Mid-Term Exam:

• Seminar/presentation/assignment/quiz/class test etc.:

- o Multimedia Basics, Volume 1 by Andreas Holzinger, Firewall Media.
- Fundamentals of Multimedia, Ze-Nian Li, Mark S. Drew, Pearson PrenticeHall,
 2004
- Multimedia Basics, Suzanne Weixel, Jennifer Fulton, Karl Barksdale, CherylMorse, Bryan Morse, Thomson/Course Technology
- Malik and Agarwal, S. and A. (October 2012). "Use of Multimedia as a New Educational Technology Tool—A Study" (PDF). *International Journal of Information and Education Technology*.

Session: 2024-25							
Part A - Introduction							
Name of Programme	B.Sc. Multimedia						
Semester	5 th						
Name of the Course	Social Media	Marketing					
Course Code	B23-MMT-50)2					
Course Type	CC-B5						
Level of the course	300-399						
Pre-requisite for the course (if any)							
Course Learning Outcomes (CLO) After completing this course, the learner will	CLO 1: Understand the basic fundamentals of digital marketing						
be able to:	CLO 2: Unde engines in mar	•					
	_	ement the SEO and socia	_				
		-	C 1				
C 1'4	CLO 4: Develop and execute a marketing plan, incorporating all elements of the marketing mix.						
Credits	Theory	Tutorial	Total				
	3	1	4				
Teaching Hours per week	3	1	4				
Internal Assessment Marks	30	0	30				
End Term Exam Marks	70	0	70				
Max. Marks	100	0	100				
Examination Time	3 hours						

Unit	Topics	Contact Hours
I	Introduction to digital marketing	15
	Planning and creating a website	
	Domain registration and hosting	
	Creation of pages and menu	
	Blog page design	
	Difference between post and pages	
II	Introduction to SEO	15
	On-page SEO Vs Off-page SEO	
	Use of keywords	
	Keywords research and planning	
	Site map, Social bookmarking	
III	Social Media Optimization	15
	Social media marketing and tools	
	Use of different social media platforms	

	Blogging				
	Video creation and sharing				
	Content creation				
IV	Web Analytics				15
	Google AdSense				
	Google Adwords				
	E-mail marketing				
	Facebook marketing				
	X marketing				
	Youtube marketing				
			Total	Contact Hours	60
	Suggested Evaluati	on N	1ethod	ls	
	Internal Assessment: 30			End Term Ex	amination: 70
> The	ory	30	>	Theory:	70
• Class	Participation:	5		Written Ex	amination
• Semin	ar/presentation/assignment/quiz/class test etc.:	10			
• Mid-T	erm Exam:	15			

- o Social Media Marketing (English, Paperback, Williams Richard)
- Social Media Marketing Step By Step Instructions For Advertising Your Business
 On Facebook by Noah Gray , Pluto King Publishing
- Digital Marketing Essentials You Always Wanted to Know Paperback by <u>Vibrant Publishers</u>
- Social Media Marketing (Paperback) By: <u>Liana Li Evans</u> Publisher: <u>Pearson Education</u>

Session: 2024-25							
Part A - Introduction							
Name of Programme	B.Sc. Multimedia						
Semester	5 th						
Name of the Course	Applications	of Multimedia					
Course Code	B23-MMT-50)3					
Course Type	CC-C5						
Level of the course	300-399						
Pre-requisite for the course (if any)							
Course Learning Outcomes (CLO)	CLO 1: Desci	ribe the types of media	and define				
After completing this course, the learner will	multimedia sy						
be able to:		uired knowledge in the	e various				
	fields/areas of						
		elop the skills to apply	multimedia tools in				
		tries / organizations.					
		n about distribution of	multimedia aids to				
	the clients/aud						
Credits	Theory	Tutorial	Total				
	3	1	4				
Teaching Hours per week	3	1	4				
Internal Assessment Marks	30 0 30						
End Term Exam Marks	70	0	70				
Max. Marks	100	0	100				
Examination Time	3 hours						

Unit	Topics	Contact Hours
I	Multimedia based presentations	15
	Concept of interactive learning material	
	Multimedia networks: retail and banking business	
	Application in interactive television	
	Multimedia kiosks	
II	Multimedia use in training and education	15
	Multimedia in distance learning	
	Multimedia for marketing and advertising	
	Multimedia use in museum and galleries	
III	Concept generation of multimedia project	15
	Process and stages of multimedia production	
	Multimedia production team member	

	Implementation and distribution of multimedia products					
IV	Multimedia messaging service				15	
	Gaming consoles and LAN gaming					
	Multimedia in medical science education					
	Multimedia in cinema production					
Total Contact Hours 60						
	Suggested Evaluation	on N	Iethod	ls		
	Internal Assessment: 30			End Term Ex	amination: 70	
> The	ory	30	>	Theory:	70	
• Class	Participation:	5	Written Examination		amination	
• Semin	nar/presentation/assignment/quiz/class test etc.:	10				
• Mid-T	Ferm Exam:	15				

- o Interactive Multimedia in Education and Training edited by Sanjaya Mishra, Ramesh C.
- o Sharma; Idea Group Inc (IGI). Copyright.
- o Multimedia technology and applications by Vincent W. S. Chow; Springer, 1997-592
- Handbook of Research on Mobile Multimedia edited by Ismail Khalil Ibrahim; Idea Group Inc (IGI). Copyright.
- o Computer Graphics and Multimedia: Applications, Problems and Solutions edited by John Di Marco; Idea Group Inc (IGI). Copyright.
- o Interactive Multimedia Systems edited by Syed Mahbubur Rahman; Idea Group Inc (IGI). Copyright

Semester-VI

Session: 2024-25						
Part A - Introduction						
Name of Programme	B.Sc. Multimedia					
Semester	6 th					
Name of the Course	Information	Security				
Course Code	B23-MMT-60	01				
Course Type	CC-A6					
Level of the course	300-399					
Pre-requisite for the course (if any)						
Course Learning Outcomes (CLO)	CLO 1: Defin	ne what information is ar	nd appreciate the			
After completing this course, the learner will	value of inforn	nation.				
be able to:	CLO 2: Und	lerstand the CIA triad of	Confidentiality,			
	Integrity and A	•				
		lyze and resolve security	y issues in networks			
	and computer s	•				
			ryptography, system			
	CLO 4: Understanding of security, cryptography, systemattacks and defenses against them.					
Credits	Theory	Tutorial	Total			
	3	1	4			
Teaching Hours per week	3	1	4			
Internal Assessment Marks	30	0	30			
End Term Exam Marks	70	0	70			
Max. Marks	100	0	100			
Examination Time	3 hours					

Unit	Topics	Contact Hours
I	Introduction to security: Basic concepts, classification of information security, need of information security, types of information security, security principles, security attacks, model for network security.	15
II	Basic cryptography: Basic cryptography terms, Encryption and Decryption, Symmetric crypto primitives, Modes of operation, Cryptographic hash functions, Asymmetric crypto primitives	15
III	Identification and authentication: Identification goals, Authentication requirements, Human authentication, Machine authentication, Authentication Mechanism, Passwords, PINs, Two stage authentication, Challenge -Response identification, Digital signature.	15

IV	IV Network security: Network threats, eavesdropping, spoofing, modification, denial of service attacks; Introduction to network security techniques: firewalls, virtual private networks, intrusion detection, Legal aspects of security, Privacy and ethics					
		ſ	Total (Contact Hour	s 60	
	Suggested Evaluati	on M	lethod	S		
	Internal Assessment: 30			End Term E	xamination: 70	
> The	ory	30	>	Theory:	70	
• Class Participation:		5		Written E	xamination	
• Semin	• Seminar/presentation/assignment/quiz/class test etc.: 10					
• Mid-Term Exam: 15						
	D (CI	D				

- o Information Security: The Complete Reference, Second Edition; Mark Rhodes-OusleyMcGraw Hill Professional, 03-Apr-2013
- o Fundamentals of Information Security: A Complete Go-to Guide for Beginners to Understand All the Aspects of Information Security by Sanil Nadkarni
- o INFORMATION SECURITY (English, Paperback, Dr. Bhavana S. Karmore)
- o Information Security by Pankaj Sharma, S.K. Kataria & Sons

Session: 2024-25					
Part A - Introduction					
Name of Programme	B.Sc. Multim	edia			
Semester	6 th				
Name of the Course	Video Production				
Course Code	B23-MMT-6	02			
Course Type	CC-B6				
Level of the course	300-399				
Pre-requisite for the course (if any)					
Course Learning Outcomes (CLO)	CLO 1: Understand video camera and its components.				
After completing this course, the learner will	CLO 2: Kno	owledge of video prod	uction phases.		
be able to:	CLO 3: Uno	derstand the techniques	s of digital editing of		
	a vid	eo.			
		nowledge of lighting T	-		
		be able to record a vic	leo and edit by using		
		editing softwares			
Credits	Theory	Practical	Total		
	3	1	4		
Teaching Hours per week	3 2 5				
Internal Assessment Marks	20 10 30				
End Term Exam Marks	50 20 70				
Max. Marks	70 30 100				
Examination Time	3 hours	3 hours			

Unit	Topics	Contact Hours
I	Origin of digital camera, Difference between roll and digital camera,	11
	HD, SD	
	formats of HD and SD, Scanning, Interlacing	
	Working of video camera, Basic technique of video camera	
	Various components of video camera, Formats of video tapes	
II	Types of video camera, Camera mountings	11
	Basic shots, Shot composition, Camera angles, Camera movements	
	Camera control unit, White balance, Resolution, Aspect ratio	
III	Concept and idea generation, writing proposal or synopsis for	11
	production	
	Production stages: pre production, production, post production	
	Television program formats – fictional and non fictional programs	
	Production team members and their responsibilities	

IV	Lighting equipment and control, lighting techniq		12		
	Editing grammar and aesthetics, editing equipme	ent			
	Structure of non-linear editing workstation				
V	Practicals:		30		
	o To study the various parts of a video camera				
	o To study the video file formats and their conve	ersion techniques			
	o To study the ray diagram inside through the vi	deo camera			
	o To study the functioning of a video camera				
	o To study the operating buttons of a video camera				
	To study the output devices for watching video film				
	To record a video shoot by a video camera				
	o To edit a video sequence in a video editing software				
	o To make a rough cut of a film shoot on a timeline				
	o To synchronize an audio clip with a video sam	nple			
	To add texts on a video sample	•			
	To add chroma key to the video sample				
	· · · · · · · · · · · · · · · · · · ·	Total Contact Hours	75		
	Suggested Evaluation M	Tethods			
	Internal Assessment: 30 End Term Examination: 70				

Internal Assessment: 30		End Term Examination: 70		
> Theory	20	> Theory:	50	
• Class Participation:	5	Written Examination		
• Seminar/presentation/assignment/quiz/class test etc.:	5	5		
• Mid-Term Exam:	10	10		
> Practicum	10	Practicum	20	
• Class Participation:		Lab record, Viva-	Voce, write-up and	
• Seminar/Demonstration/Viva-voce/Lab records etc.:	5	execution of the practical		
• Mid-Term Exam:	-			

- o Videography: Video Media as Art and Culture, Sean Cubitt, Palgrave Macmillan, 15-Dec1993
- o Visual Storytelling: Videography and Post Production in the Digital Age, Ronald J.
- Osgood, M. Joseph Hinshaw, WADSWORTH Incorporated FULFILLMENT, 29-Jan2013
- Video Production: Disciplines and Techniques, James C. Foust, Edward John Fink, Lynne S. Gross, Holcomb Hathaway, Incorporated

Session: 2024-25					
Part A - Introduction					
Name of Programme		B.Sc. Multimedia			
Semester	6 th				
Name of the Course	Artificial Int	elligence			
Course Code	B23-MMT-60)3			
Course Type	CC-C6				
Level of the course	300-399				
Pre-requisite for the course (if any)					
Course Learning Outcomes (CLO)	CLO 1: helping learners to understand the world of AI				
After completing this course, the learner will	and its application	ations			
be able to:	CLO 2 :understand the basics of intelligent agents and				
	learning types	S			
	CLO 3 :learn	the different compone	ents of AI such as		
		age processing, expert			
	network basic	s and knowledge repre	esentation		
	CLO 4: learn	about various applica	ntion of AI in		
	multimedia.				
Credits	Theory	Tutorial	Total		
	3	1	4		
Teaching Hours per week	3	1	4		
Internal Assessment Marks	30	0	30		
End Term Exam Marks	70 0 70				
Max. Marks	100 0 100				
Examination Time	3 hours				

Unit	Topics	Contact Hours
I	Introduction to Artificial Intelligence	15
	Definition of artificial intelligence (AI)	
	Brief history and evolution of AI	
	Strong AI vs Weak AI.	
	Turing Test and Intelligent Agents.	
	Components of AI	
	Applications of AI in various fields	
II	Introduction to Machine Learning	15
	Classification of Machine Learning	
	Application of Machine Learning	
	Deep learning	
	Knowledge representation techniques	

	Neural Networks: ANN, RNN and CNN				
III	Introduction to NLP				15
	Text preprocessing techniques				
	Introduction to expert system				
	Introduction to robotics; Applications of AI i	n rob	otics		
	Types of robots (industrial robots, autonomo	us ve	hicles	, drones, etc.)	
IV	AI applications in multimedia				15
	AI in Image Processing				
	AI in Video Editing and Production				
	AI in Animation and 3D Modelling				
	AI in voice acting and dubbing				
	AI in Design and Art Creation				
	Ethics and Legal Implications of AI in Multi-	medi	a		
		,	Total	Contact Hours	60
	Suggested Evaluati	on M	lethod	ls	
	Internal Assessment: 30			End Term Ex	amination: 70
> The	eory	30		Theory:	70
• Class	• Class Participation: 5 Written Ex		amination		
• Semin	nar/presentation/assignment/quiz/class test etc.:	10			
● Mid-T	Ferm Exam:	15			
	Part C-Learning	Rese	ource	S	

- o "Artificial Intelligence: A Modern Approach" by Stuart Russell and Peter Norvig
- o "Deep Learning" by Ian Goodfellow, Yoshua Bengio, and Aaron Courville
- o "Natural Language Processing with Python" by Steven Bird, Ewan Klein, and Edward Loper
- o "Robotics: Modelling, Planning and Control" by Bruno Siciliano and Lorenzo Sciavicco
- o "AI Superpowers: China, Silicon Valley, and the New World Order" by Kai-Fu Lee
- o "Ethics of Artificial Intelligence and Robotics" edited by Vincent C. Müller and Nick Bostrom

Session: 2024-25					
Part A - Introduction					
Name of Programme	B.Sc. Multim	edia			
Semester	6 th				
Name of the Course Organization Portfolio					
Course Code	B23-MMT-60)4			
Course Type	Course Type CC-M6				
Level of the course 300-399					
Pre-requisite for the course (if any)					
Course Learning Outcomes (CLO)	Course Learning Outcomes (CLO) CLO 1: Define use of portfolio in marketing.				
After completing this course, the learner will	CLO 2 :Unders	stand the use of multime	dia in portfolio		
	development				
	CLO 3 :create l	earning points for the po	ortfolio designing		
	CLO 4: Learn	industry based standard	s and skills		
Credits	Theory	Tutorial	Total		
	3	1	4		
Teaching Hours per week	3	1	4		
Internal Assessment Marks	30 0 30				
End Term Exam Marks	70 0 70				
Max. Marks	100 0 100				
Examination Time	3 hours				

Unit	Topics	Contact Hours
I	Introduction to Portfolio: Identification of definition and purposes	15
	Making a conceptual framework Portfolio process and	
	Utilization Portfolio assessment process	
	Steps of development: plan, gather artifacts, update references,	
	creating support material, assembling portfolio, and use in interviews	
II	Electronic portfolio development	15
	Benefits of an electronic portfolio	
	Designing an electronic portfolio	
	Portfolio designing software	
	Portfolio websites	
III	Identifying types of learning	15
	Gathering of supporting documentation	
	Portfolio building and submission	
	Portfolio evaluation	
IV	Use of a portfolio in the graphic arts	15
	Industry Preparation and presentation techniques	

Industry standards for portfolios Time mana				
	-	Total	Contact Hour	rs 60
Suggested Evaluati	on M	[ethod	ls	
Internal Assessment: 30		End Term Examination: 70		
> Theory	30	>	Theory:	70
• Class Participation:	5		Written E	xamination
• Seminar/presentation/assignment/quiz/class test etc.:				
• Mid-Term Exam:				

- o Herbert, E. (2001). The power of portfolios: what children have taught us about learning and assessment. San Francisco: Jossey-Bass.
- o Williams, A. G. & Hall, K. J. (2001). Creating your career portfolio: at a glance guide for students. New Jersey: Prentice-Hall, Inc.
- o Williams, A. G., Hall, K. J., Shadix, K., & Stokes, D.M. (2005). Creating your career portfolio: at a glance guide for dietitians. New Jersey: Pearson Education, Inc.