

Central University of Himachal Pradesh

(Established under Central Universities Act 2009)

PO BOX: 21, DHARAMSHALA, DISTRICT KANGRA – 176215, HIMACHAL
PRADESH

Courses Offered **PG Programmes of Study**

Monsoon Semester
(August – December 2014)



For More Details: Log on to www.cuhimachal.ac.in

Table of Contents

School of Business & Management Studies.....	3
Department of Environmental Sciences.....	6
Department of Teacher Education	8
Department of English & European Languages	10
Department of Hindi & Indian Languages.....	12
Department of Journalism & Creative Writing.....	14
Department of Mass Communication & Electronic Media.....	16
Centre for Computational Biology & Informatics.....	18
Department of Mathematics.....	20
Department of Computer Science.....	21
Department of Library Science	22
Department of Physics & Astronomical Science.....	24
Department of Social Work	26
Department of Economics & Public Policy.....	28
Department of Tourism & Travel Management.....	30

School of Business & Management Studies

School of Business & Management Studies

Name of the Programme of Study: MBA

Courses for Semester 1

Group A (ACCOUNTING & FINANCE)

Credits: 2

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1.	AFA 407	Accounting for Managerial Decisions	2	-	Dr. Mohinder Singh Dr. Ashish Nag Dr. Manpreet

Group B (Marketing & Supply Chain Mgt.)

Credits: 2

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1.	MSC 401	Marketing Management	2	-	Dr. Bhagwan Singh Dr. Sarvesh Kumar Mr. Chaman Lal

Group C (HRM & OB)

Credits: 2

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1.	HRM 401	Organizational Behaviour	2	-	Dr. Aditi Sharma Dr. Gitanjali Upadhya Dr. Bhawna Bhardwaj

Group D (EDM)

Credits: 2

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1.	EDM 401	Fundamentals of Entrepreneurship	2	-	Mr. Chaman Kashyap, Dr. Sanjeev Gupta

School Wide Courses

Credits: 4

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1.	MSO 401	Management Principles and Function	2	-	Dr. Bhawna Dr. Gitanjali Dr. Aditi Sharma
2.	MSO 402	Legal Aspects of Business *	2	-	Dr. Mohinder Singh Dr. Ashish Nag Dr. Manpreet
3.	CSR 401	Human Values and Ethics	2	-	Dr. Bhawna Dr. Gitanjali Dr. Aditi Sharma
4.	POM 402	Management of Innovation	2	-	Dr. Sarvesh Kumar

5	AFA 502	Project Management	2	NA	Dr. Manpreet
---	---------	--------------------	---	----	--------------

*** Compulsory Course**

Courses for Semester 3

Group A (ACCOUNTING & FINANCE)

Credits: 6

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1.	AFA 507	Working Capital Management	2		Dr. Manpreet
2.	AFA 512	Investment Analysis and Portfolio Management	2		Dr. Ashish Nag
3.	AFA 415	Stock Market Operations	2		Dr. Mohinder Singh
4.	AFA 529	Quantitative Finance	4		Dr. Sanjeev Gupta
5.	AFA 509	Management of Mutual Fund	2		Mr. M. AtiF

Group B (Marketing & Supply Chain Mgt.)

Credits: 6

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1.	MSC 507	Rural Marketing	2		Mr. Chaman Kashyap
2.	MSC 501	Social Marketing	2		Dr. Sarvesh Kumar
3.	MSC 402	Services Marketing	2		Dr. Sarvesh Kumar
4.	MSC 512	International Marketing	2		Mr. Chaman Kashyap
5.	MSC 405	Integrated Marketing Communication	2	MSC 401, MSC 506	Dr. Bhagwan Singh

Group C (HRM & OB)

Credits: 6

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	HRM402	Management of Industrial Relations	2	NA	Dr. Aditi Sharma
2	HRM 503	Human Resource Development	2	NA	Dr. Bhawna Bhardwaj
3	HRM 508	Compensation Management	2	NA	Dr. Gitanjali
4	HRM 513	Labour Laws	2	NA	Dr. Aditi Sharma
5	HRM 410	Personality Development and	2	NA	Dr. Bhawna Bhardwaj

		Career Management			
--	--	-------------------	--	--	--

School Wide Courses

Credits: 10

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	MSO 506	Strategic Management*	4	NA	Dr. Sanjeev Gupta Dr. Bhagwan Singh Dr. Sarvesh Kumar
2	MIB 411	International Business Environment	2	NA	Dr. Manpreet
3	EDM 507	Managing Corporate Turnarounds	2	EDM 401	Dr. Sanjeev Gupta
4	MSO 507	On-the-job Training and Training Report*	4	NA	All Faculty

* Compulsory Course

University Wide Courses

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	MSC 401	Marketing Management	2	NA	Dr. Bhagwan Singh Dr. Sarvesh Kumar Mr. Chaman Lal
2	HRM 401	Organizational Behaviour	2	NA	Dr. Aditi Sharma Dr. Gitanjali Upadhya Dr. Bhawna Bhardwaj
3	EDM 401	Fundamentals of Entrepreneurship	2	NA	Dr. Sanjeev Gupta Mr. Chaman Kashyap
4	MSO 401	Management Principles and Function	2	NA	Dr. Bhawna Dr. Gitanjali Dr. Aditi Sharma
5	AFA 502	Project Management	2	NA	Dr. Manpreet
6	MSO 402	Legal Aspects of Business	2	NA	Dr. Mohinder Singh Dr. Ashish Nag Dr. Manpreet
7	HRM410	Personality Development and Career Management	2	NA	Dr. Bhawna
8	MSC 507	Rural Marketing	2	NA	Mr. Chaman Kashyap
9	HRM 513	Labour Laws	2	NA	Dr. Aditi Sharma
10	AFA 539	Foreign Investment Scenario	2	NA	Dr. Sanjeev Gupta
12	MSC 405	Integrated Marketing Communication	2	NA	Dr. Bhagwan Singh
13	CSR 401	Human Values and Ethics	2	NA	Dr. Bhawna Dr. Gitanjali Dr. Aditi Sharma
14	MIB 411	International Business Environment	2	NA	Dr. Manpreet

Department of Environmental Sciences

School of Earth & Environmental Sciences

Name of the Department: **Department of Earth & Environmental Sciences**

Name of the Programme of Study: **MSc (Environmental Sciences)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	ENV 403	Environmental Chemistry	4	NA	Dr. Deepak Pant
2	ENV 401	Introduction to Ecology	2	NA	Dr. Mushtaq Ahmed
3	ENV 516	Atmospheric Science	2	NA	Dr. Ankit Tandon
4	ENV 553	Environmental Thermodynamics	2	NA	Dr. S. Chatterjee
5	ENV 402	Introduction to Earth Processes	2	NA	Dr. Anurag Linda
6	ENV 418	Ecology Lab	2	NA	Dr. Mushtaq Ahmed

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	ENV 536	Disaster Management	2	NA	Dr. A.K.Mahajan
2	ENV 412	Analytical Techniques	2	NA	Dr. Deepak Pant
3	ENV 409	Environmental Microbiology	2	NA	Dr. Mushtaq Ahmed
4	ENV 554	Environmental Conservation and Sustainable Development	4	NA	Dr. Mushtaq Ahmed
5	ENV 537	Environmental Engineering	2	NA	Dr. Ankit Tandon
6	ENV 561	Science of Climate Change	4	NA	Dr. Ankit Tandon

7	ENV 528	Nano Techniques and Environment	2	NA	Dr. S. Chatterjee
8	ENV 562	Analytical Techniques (Biological Science)	2	NA	Dr. S. Chatterjee
9	ENV 535	Natural Hazards	2	NA	Dr. Anurag Linda
10	ENV 534	Green Technology and Market	2	NA	Dr. Anurag Linda
11	ENV 531	Toxicology Lab	2	NA	Dr. Deepak Pant

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	ENV 404	Energy and Environment	2	ENV 404	Dr. Ankit Tandon
2.	ENV 408	Biodiversity and Wildlife Management	2	ENV 408	Dr. S. Chatterjee
3.	ENV 522	Ecosystem Diversity	4	ENV 522	Dr. S. Chatterjee
4.	ENV 424	Fundamental of Remote sensing	2	ENV 424	Dr. Anurag Linda

Department of Teacher Education

School of Education

Name of the Department: **Department of Teacher Education**

Name of the Programme of Study: **MA (Education)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. Of Pre-requisite/Co-requisites if any	Teacher
1.	TTR 401	Basics of Education & Philosophy	2	NA	Dr. Navneet Sharma
2.	TTR 403	Basics of Sociology	2	NA	Ms. Prakrati Bhargava
3.	TTR 405	Psychological Foundation of Education	2	NA	Dr. Anu G.S. & Ms. Renu Bhandari
4.	TTR 406	Research Methods and Statistics in Education	2	NA	Dr. Arbind K Jha
5.	TTR 412	ICT in Education	2	NA	Dr. Manoj K Saxena
6.	TTR 423	Field Work Practicum - I	2		All Faculty

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. Of Pre-requisite/Co-requisites if any	Teacher
1.	TTR 603	Politics & Economics of Education	4	NA	Dr. Navneet Sharma & Ms. Prakrati Bhargava
2.	TTR 606	Quantitative Research in Education	4	NA	Dr. Arbind K Jha & Dr. Manoj K Saxena

3.	TTR 612	Curriculum Development	2	NA	Dr. Anu G.S.
4.	TTR 427	Inclusive Education : Equity & Diversity	2	NA	Ms. Renu Bhandari
5.		Dissertation	0	NA	All Faculty

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. Of Pre-requisite/ Co-requisites if any	Teacher
1.	CSR401	Human Values and Ethics	2	NA	Dr. Arbind K Jha
2.	SWR405	Basics of Research Methodology	2	NA	Dr. Arbind K Jha
3.	TTR613	Epistemological foundations of Science and Mathematics Education	4	NA	Dr. Arbind K Jha
4.	TTR 619	Historical Perspectives of Education in India	4	NA	Dr. Manoj K. Saxena
5.	TTR 436	Commerce Education	4	NA	Dr. Manoj K. Saxena
6.	TTR414	Education for Values and Human Rights	4	NA	Dr. Navneet Sharma
7.	TTR416	Education for Women Empowerment	2	NA	Dr. Navneet Sharma
8.	TTR413	Action research in Education	2	NA	Dr. Anu GS
9.	TTR440	Guidance and Counselling	2	NA	Dr. Anu GS
10.	TTR 617	Advance Research Methods and statistics in Education	4	NA	Dr. Anu GS
11.	TTR443	Higher and Professional Education in India	4	NA	Ms Prakrati Bhargava
12.	TTR426	Indian Educational Thought	2	NA	Ms Prakrati Bhargava
13.	TTR415	Environmental Education	2	NA	Ms Renu Bhandari
14.	TTR411	Education of Children with Special Needs	4	NA	Ms. Renu Bhandari

Department of English & European Languages

School of Humanities & Languages

Name of the Department: **Department of English & European Languages**

Name of the Programme of Study: **MA (English Language & Literature)**

Courses for Semester 1

Sr. No.	Course Code	Name of Course	Credit	Code No. of Pre-requisite/ Co-requisites if any	Name of Teacher
1.	EEL 404	Renaissance	4	NA	Dr. Khem Raj Sharma
2.	EEL 401	History of English Language	2	NA	Dr. KBS Krishna
3.	EEL 402	History of English Literature	4	NA	Mr. Hem Raj Bansal
4.	EEL 406	Neo-Classicism	4	NA	Ms. Shaweta Nanda

Courses for Semester 3

Sr. No.	Course Code	Name of Course	Credit	Code No. of Pre-requisite/ Co-requisites if any	Name of Teacher
1.	EEL 423	Literary Theory from Aristotle to T.S.Eliot	4	NA	Dr. Roshan Lal Sharma
2.	EEL 503	Modernism	4	NA	Dr. Khem Raj Sharma
3.	EEL 433	American Literature	4	NA	Dr. KBS Krishna
4.	EEL 409	Immigrant and Diasporic Writings	2	NA	Mr. Hem Raj Bansal
5.	EEL 407	World Literature: Concept and Major Texts	2	NA	Ms. Shaweta Nanda

University Wide Courses

Sr. No.	Course Code	Name of Course	Credit	Code No. of Pre-requisite/ Co-requisites if any	Name of Teacher
1.	EEL 410	Literature and Filmic Representation	2	NA	Dr. Khem Raj Sharma Mr. Hem Raj Bansal Dr. KBS Krishna Ms. Shaweta Nanda
2.	EEL 412	Academic Writing	2	NA	Dr. Khem Raj Sharma Mr. Hem Raj Bansal Dr. KBS Krishna Ms. Shaweta Nanda
3.	EEL 438	Short Stories from around the World	2	NA	Dr. Khem Raj Sharma Mr. Hem Raj Bansal Dr. KBS Krishna Ms. Shaweta Nanda
4.	EEL 432	Mystical Literature in English Translation	2	NA	Dr. Roshan Lal Sharma
5.	EEL 435	Popular Literature	2	NA	Dr. Khem Raj Sharma Mr. Hem Raj Bansal Dr. KBS Krishna Ms. Shaweta Nanda
6.	EEL 414	Advanced Oral Communicative Skills in English	2	NA	Dr. Khem Raj Sharma Mr. Hem Raj Bansal Dr. KBS Krishna Ms. Shaweta Nanda
7.	EEL441	Crime Fiction	2	NA	Dr. Khem Raj Sharma Mr. Hem Raj Bansal Dr. KBS Krishna Ms. Shaweta Nanda

Department of Hindi & Indian Languages

School of Humanities & Languages

Name of the Department: **Department of Hindi & Indian Languages**

Name of the Programme of Study: **MA (Hindi)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	HIL 440	Hindi Sahitya ka Itihaas: Aarambh se Reetikaal Tak	4	NA	Dr. Sayema Bano
2	HIL 408	Hindi ki Utpatti, Vikas aur Bolian: Purani Hindi, Dakkini, Bhasha Parichay	4	NA	Dr. Sayema Bano
3.	HIL 410	Kahani	4	NA	Mr.Chandrakant Singh
4.	HIL 510	Adikaleen Sahitya	4	NA	Mr.Chandrakant Singh

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	HIL 417	Naatak aur Rangmanch: Hindi Natak, Natya Roopantar, Other Languages on Hindi Literature	4	NA	Mr.Chandrakant Singh
2	HIL 442	Pashchatya Sahitya Siddhant	4	NA	Dr. Sayema Bano

3.	HIL 447	Reetikavya	2	NA	Mr.Chandrakant Singh
4.	HIL 406	Khadi Boli ka Kavya: Hindi ki Lambi Kavitayen	2	NA	Dr. Sayema Bano
5.	HIL 404	Khadi Boli ka Kavya: Prakriti Kavya	2	NA	Mr.Chandrakant Singh

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	HIL 423	Hindi aur Jan Sanchar Madhyam (including New Media)	4	NA	Mr Chandrakant Singh
2.	HIL 434	Urdu Bhasha aur Sahitya Ka Parichayatmak Adhyayan	2	NA	Dr. Sayema Bano
3.	HIL 451	Hindi Geet, Navgeet aur Ghazal	2	NA	Dr. Sayema Bano

Department of Journalism & Creative Writing

School of Journalism, Mass Communication & New Media

Name of the Department: **Department of Journalism & Creative Writing**

Name of the Programme of Study: **MA (Journalism & Creative Writing)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	JCW 404	News Report Writing	4	NA	Dr. M.Rabindranath
2.	JCW 407	Media Management and Newspaper Production	4	NA	Dr. ArchnaKatoch
3.	JCW 405	Computer Applications for Journalism	4	NA	Mr. Harikrishnan B.
4.	JCW 515	Art & Culture Journalism	4	NA	Mr. Harikrishnan B.
5.	JCW 513	Business Journalism	4	NA	Mr. Harsh Mishra
6.	JCW 505	Advertising	4	NA	Mr. Harsh Mishra

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	JCW 504	Public Relations	4	NA	Dr.M.Rabindranath
2.	JCW 406	Feature and Creative Writing	2	NA	Dr. ArchnaKatoch
3.	JCW 529	Editorial Writing	2	NA	Dr. ArchnaKatoch
4.	JCW 502	Photo Journalism	4	NA	Mr. Harikrishnan B.
5.	JCW 507	Film Appreciation	2	NA	Mr. Harikrishnan B.
6.	JCW 524	Education Journalism	2	NA	Mr. Harikrishnan B.
7.	JCW 519	Sports Journalism	4	NA	Mr. Harsh Mishra

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No of Pre-requisite/ Co-requisites if any	Teacher
1.	JCW 404	News Report Writing	4	NA	Dr.M.Rabindranath
2.	JCW 504	Public Relations	4	NA	Dr.M.Rabindranath
3.	JCW 402	Development Communication	4	NA	Dr. ArchnaKatoch
4.	JCW 408	Media and Gender	2	NA	Dr. ArchnaKatoch
5.	JCW 406	Feature and Creative Writing	2	NA	Dr. ArchnaKatoch
6.	JCW 409	Business and Economic Journalism	2	NA	Mr. Harsh Mishra
7.	JCW 523	Media and Social Issues	2	NA	Mr. Harsh Mishra

Department of Mass Communication & Electronic Media

School of Journalism, Mass Communications & New Media

Name of the Department: **Department of Mass Communication & Electronic Media**

Name of the Programme of Study: **MA (New Media Communication)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No of Pre-requisite/ Co-requisites if any	Teacher
1.	MCE401	Mass Communication Theory	4	NA	RP RAI
2.	MCE403	Reporting & Editing	4	NA	K. SINGH
3.	MCE425	Audio and Video Fundamentals	4	NA	RP RAI
4.	MCE406A	Web Technology and Applications	2	NA	P.NAIR
5.	MCE419	Social and Cultural Context of Communication	2	NA	P.NAIR
6.	MCE 504	Language of New Media	4	NA	K. SINGH

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	MCE513	Radio Production	4	NA	P.NAIR
2.	MCE514	Television Production	4	NA	K. SINGH
3.	MCE516	Internet and Mobile Production	4	NA	RP RAI
4.	MCE414	ICT in Governance	2	NA	P.NAIR

5.	MCE417	Digital Technology Divide and Social Inclusion	2	NA	P.NAIR
6.	MCE 416	e-Education and Learning	2	NA	RP RAI
7.	MCE 413	New Media and Social Change	2	NA	K. SINGH

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	MCE403	Reporting & Editing	4	NA	K. SINGH
2.	MCE406A	Web Technology and Applications	2	NA	P.NAIR
3.	MCE414	ICT in Governance	2	NA	P.NAIR
4.	MCE417	Digital Technology Divide and Social Inclusion	2	NA	P.NAIR
5.	MCE419	Social and Cultural Context of Communication	2	NA	P.NAIR
6.	MCE 413	New Media and Social Change	2	NA	K. SINGH
7.	MCE 416	e-Education and Learning	2	NA	RP RAI
8.	MCE 504	Language of New Media	4	NA	K. SINGH

Centre for Computational Biology & Informatics

School of Life Sciences

Name of the Department: **Centre for Computational Biology & Informatics**

Name of the Programme of Study: **MSc (Computational Biology and Bio-Informatics)**

Courses for Semester 1

S. No.	Course Code	Course Title	Credits	Pre-requisite/ Co-requisites if any	Name of The Teacher
1.	CBB 402	Modern Biology	2	NA	Dr. Yusuf Akhter
2.	CBB 418	Biomolecules	2	NA	Dr. Yusuf Akhter
3.	CBB 401	Mathematics in Biology	2	NA	Dr. Vikram Singh
4.	CBB 423	Numerical Methods of Computational Biologists	2	NA	Dr. Vikram Singh
5.	CBB 403	Introduction to Statistics and Probability	2	NA	Dr. P. Aparoy
6.	CBB 405	Basics of Bioinformatics	2	NA	Dr. P. Aparoy
7.	CBB 422	Basics of Microbiology and Immunology	2	NA	Dr. P. Aparoy
8.	CBB 420	Cell Biology and Genetics	4	NA	Mr. Shailender Kumar Verma
9.	CBB 419	Concepts of Molecular Biology	2	NA	Mr. Shailender Kumar Verma

Courses for Semester 3

S. No.	Course Code	Course Title	Credit	Pre-requisite/ Co-requisites if any	Name of The Teacher
1.	CBB 525	Enzyme Kinetics	2	NA	Dr. Yusuf Akhter
2.	CBB 431	Bioanalytical Techniques	2	NA	Dr. Yusuf Akhter
3.	CBB 529	Introduction to Dynamical Systems : From Cells to Societies	2	NA	Dr. Vikram Singh
4.	CBB 522	Elements of Synthetic Biology	2	NA	Dr. Vikram Singh
5.	CBB 412	Computational statistics for Biology	2	NA	Dr. Vikram Singh

6.	CBB 513	Chemoinformatics	4	NA	Dr. P. Aparoy
7.	CBB 420	Cell Biology and Genetics	4	NA	Mr. Shailender Kumar Verma
8.	CBB 527	Plant Bioinformatics	4	NA	Mr. Shailender Kumar Verma
9.	CBB 515	Computer Aided Drug Discovery	4	NA	Dr. P. Aparoy

University Wide Courses

Sr. No.	Course Code	Course Name	Credit	Code No. of Pre-requisite/ Co-requisites if any	Full Name of the Teacher
1.	CBB 516	Molecular Evolution & Biodiversity	4	NA	Dr. Yusuf Akhter
2.	CBB 504	Genomics & Proteomics	4	NA	Dr. Yusuf Akhter/ Shailender K. Verma
3.	CBB 401	Mathematics in Biology	2	NA	Dr. Vikram Singh
4.	CBB 529	Introduction to Dynamical Systems : From Cells to Societies	2	NA	Dr. Vikram Singh
5.	CBB 419	Concepts in Molecular Biology	2	NA	Mr. Shailender Kumar Verma
6.	CBB 425	Basics of Plant Biotechnology	2	NA	Mr. Shailender Kumar Verma

Department of Mathematics

School of Mathematics, Computers & Information Science

Name of the Department: **Department of Mathematics**

Name of the Programme of Study: **MSc Mathematics with specialisation in Industrial Mathematics**

Courses for Semester 1

Sr. No.	Course code	Course name	Credits	Code no. Of pre-requisite/ co-requisites if any	Teacher
1	IAM 402	Ordinary and Partial Differential Equations	4	NA	Dr. Rakesh
2	IAM 404	Mathematical Methods	4	NA	Dr. Rakesh
3	IAM 401	Complex Analysis	4	NA	Dr. R. Singh
4	MTH 403	Linear Algebra	4	NA	Dr. S. K. Srivastava

Courses for Semester 3

Sr. No.	Course code	Course name	Credits	Code no. Of pre-requisite/ co-requisites if any	Teacher
1	MTH 510	Number Theory	4	NA	Dr. R. Singh
2	IAM 407	Differential Geometry	4	NA	Dr. S. K. Srivastava
3	IAM 550	Project and Seminar Based On Practical Training With Industry	4	NA	Dr. R. Singh Dr. Rakesh Dr. S. K. Srivastava
4	CSI 525	Discrete Mathematics	2	NA	Dr. Rakesh

University Wide Courses

Sr. No.	Course code	Course name	Credits	Code no. Of pre-requisite/ co-requisites if any	Teacher
1	IAM 401	Complex Analysis	4	NA	Dr. R. Singh

4	IAM 407	Differential Geometry	4	NA	Dr. S. K. Srivastava
3	CSI 525	Discrete Mathematics	2	NA	Dr. Rakesh

Department of Computer Science

School of Mathematics, Computers & Information Science

Name of the Department: **Department of Computer Science**

Name of the Programme of Study: **MSc (Information Technology)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if	Teacher
1.	CSI403	Computer Organization & Architecture	4	NA	Keshav Singh Rawat
2.	CSI528	Image Processing	2	NA	Keshav Singh
3.	CSI401	Programming	2	NA	Manoj Dhiman
4.	CSI407A	LAB- C	2	NA	Manoj Dhiman
5.	CSI406A	Fundamentals of ICT	4	NA	Guest faculty

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if	Teacher
1.	CSI531	Theory of Computation	4	NA	Keshav Singh
2.	CSI501	Design & Analysis of Algorithms	2	CSI420	Keshav Singh Rawat
3.	CSI414B	LAB- C++	2	CSI407A	Manoj Dhiman
4.	CSI 410	Object oriented programming using C++	2	CSI401	Manoj Dhiman
5.	CSI499	Industrial Training	4	NA	Manoj Dhiman/

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	CSI528	Image Processing	2	NA	Keshav Singh
2.	CSI401	Programming	2	NA	Manoj Dhiman

3.	CSI407A	LAB- C	2	NA	Manoj Dhiman
4.	CSI531	Theory of Computation	4	NA	Keshav Singh
5.	CSI406A	Fundamentals of ICT	4	NA	Guest faculty

Department of Library Science

School of Mathematics, Computers & Information Science

Name of the Department: **Department of Library Science**

Name of the Programme of Study: **M Lib Sc (Integrated Dual Degree Programme)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	LIS 410	Fundament of ICT	4	NA	Nimmala Karunakar
2.	LIS 401	Information Literacy	2	NA	Prof.I.V.Malhan
3.	LIS 411	Management of Libraries and Information Centers	2	NA	Nimmala Karunakar
4.	LIS 405	Knowledge Organization and Information Processing (Theory):Cataloguing	2	NA	Dr. Dimple Patel
5.	LIS 407	Knowledge Organization and Information Processing (Theory): Classification	2	NA	Dr. Dimple Patel

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	LIS 402	Web designing and hosting(Lab)	2	NA	Prof.I.V.Malhan
2.	LIS 501	Library Automation and Networks	2	NA	Nimmala Karunakar
3.	LIS 502	Library Automation and Networks(Practical)	2	NA	Nimmala Karunakar

4.	LIS 416	Information Storage and Retrieval	2	NA	Dr. Dimple Patel
5.	LIS 510	IPRS in Digital Era	2	NA	Dr. Dimple Patel
6.	LIS 503	Digital Library	2	NA	Dr. Dimple Patel
7.	LIS 507	Community Lab for Library and information Science	4	NA	Prof.I.V.Malhan

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	LIS 410	Fundamentals of Information and Communication Technology	4	NA	Sh. Nimmala Karunakar.

Department of Physics & Astronomical Science

School of Physical & Material Sciences

Name of the Department: **Department of Physics & Astronomical Sciences**

Name of the Programme of Study: **MSc (Physics)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	PAS 401	Classical Mechanics	2	NA	Dr Ayan Chatterjee
2.	PAS 402	Mathematical Physics	2	NA	Dr.. J. Kumar
3.	PAS 403	Classical Electrodynamics	2	NA	Dr. B.C. Chauhan
4.	PAS 404	Quantum Mechanics	2	NA	Dr. S. Verma
5.	PAS 405	Electronic Circuits	2	NA	Dr. D. S. Verma
6.	PAS 413	General Physics Lab	2	NA	Prof. K.B. Joshi Dr. Sastri, Dr. A. Chatterjee
7.	PAS 415	Electronics Lab	2	NA	Dr. D.S. Verma, Dr. S. Verma

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	PAS 411	Atomic and Laser Physics	2		Prof K B Joshi/ Dr O S K S Sastri
2.	PAS 505	Advanced Nuclear Physics	2	PAS 409	Dr Dalip Singh
3.	PAS 503	Advanced Condensed Matter Physics	2	PAS 408	Dr Jagdish
4.	PAS 426	Quantum Field Theory	2	PAS 407, PAS 401	Dr Surender Verma

5.	PAS 428	Computational Physics	2	PAS 427	Dr O S K S Sastri
6.	PAS 528	Accelerator and Reactor Physics	2	PAS 409	Dr B C Chauhan
7.	PAS 529	General Theory of Relativity	2	PAS 401	Dr Ayan Chatterjee
8.	PAS 411	Magnetic Materials	2	PAS 408	Prof K B Joshi
9.	PAS 427	Computational Physics Lab	2	PAS 404	Dr O S K S Sastri and Dr Surender
10.	PAS 429*	Nuclear Physics Lab	2		Prof K B Joshi, Dr Dalip and Dr Ayan

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	PAS 427	Computational Physics	2	PAS 404	Dr O S K S Sastri
2.	PAS 428	Computational Physics	2	PAS 427	Dr O S K S Sastri
3.	PAS 404	Quantum Mechanics	2	NA	Dr. S. Verma
4.	CBB 406	A Practical Course in Programming	2	NA	Dr Jagdish and Dr Chauhan
5.	CBB 514	Molecular simulations and Applications	4	PAS 407	Dr O S K S Sastri
6.	CSI 411	Modeling and simulation	2	CBB 514	Dr O S K S Sastri
7.	PAS 528	Accelerator and Reactor	2	PAS 409	Dr B C Chauhan
8.	PAS 529	General Theory of Relativity	2		Dr Ayan Chatterjee
9.	PAS 401	Classical Mechanics	2		

Department of Social Work

School of Social Sciences

Name of the Department: **Department of Social Work**

Name of the Programme of Study: **MSW**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite / Co-requisites if any	Teacher
1.	SWR 401	Basics of Social Work	2	NA	Dr A. Pradhan
2.	SWR 402	Contemporary Social Problem	2	NA	Mr S. Ahmad
3.	SWR 409	Concurrent Field Work and Viva-I	4	NA	All Faculty
4.	SOC 401	Understanding Contemporary Society	2	NA	New Faculty
5.	PBS 401	Dynamics of Human Behaviour	2	NA	Mr S. Ahmad

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite / Co-requisites if any	Teacher
1.	SWR 412	NGO Management	2	SWR 401 SWR 409	Mr S. Ahmad
2.	SWR 417	Concurrent Field Work and Viva-III	4	SWR 405 SWR 409	All Faculty
3.	SWR 423	Block Placement Training	4	NA	Mr S. Ahmad / Dr A. Pradhan
4.	SWR 453	Community Lab for Social Work	4	NA	All Faculty
5.	SWR 454	Social Development and Social Work	2	NA	Dr A. Pradhan

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	SOC 401	Understanding Contemporary Society	2	NA	New Faculty / Prof. Arvind Agrawal
2.	PBS 401	Dynamics of Human Behaviour	2	NA	Mr S. Ahmad
3.	SWR 412	NGO Management	2	SWR 401 SWR 409	Mr S. Ahmad

Department of Economics & Public Policy

School of Social Sciences

Name of the Department: **Department of Economics & Public Policy**

Name of the Programme of Study: **MA (Economics)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	ECN 405	Microeconomic Theory	4	NA	Prof. HR Sharma
2.	ECN 404	Mathematics for Economists	4	NA	Mr. Indervir Singh
3.	SAS 404	Applied Statistics	4	NA	Mr. Indervir Singh

Courses for Semester 3

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	ECN 440	Evolution of Indian Economic System	4	NA	Mr. Kamal Singh
2.	ECN 423	International Economics	4	NA	Mr. Kamal Singh
3.	ECN 411	Agricultural Economics	4	NA	Mr. Amit K. Basantaray Prof. HR Sharma
4.	ECN 412	Industrial Economics	4	NA	Mr. Amit K. Basantaray
5.	ECN 415	Labour Economics	4	NA	Mr. Kamal Singh
6.	SAS 405	Statistical Methods with Packages	2	NA	Mr. Indervir Singh
7.	SWR 405	Basics of Research Methodology	2	NA	Mr. Indervir Singh
8.	Professional Development Activity*	4		NA	Mr. Amit K. Basantaray

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	ECN 401	Basics of Microeconomics	2	NA	Mr. Amit K. Basantaray
2.	ECN 445	Basic Terms and Concepts in Economics	2	NA	Mr. Amit K. Basantaray
3.	ECN 407	Indian Economic Environment	2	NA	Mr. Kamal Singh

Department of Tourism & Travel Management

School of Tourism, Travel & Hospitality Management

Name of the Department: **Department of Tourism and Travel Management**

Name of the Programme of Study: **MBA (Travel and Tourism)**

Courses for Semester 1

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	TTM 403	Travel and Tourism Principles and Practices	2	NA	Dr. Suman Sharma
2.	TTM 422	Geography of Tourism	2	NA	Dr. Suman Sharma
3.	TTM 422	Introduction to Hotel Management	2	NA	Mr. Debasis Sahoo
4.	TTM 436	Housekeeping in Hospitality Operations	4	NA	Mr. Debasis Sahoo
5.	TTM 410	Event Management	2	NA	Mr. Arun Bhatia
6.	TTM 407	Introduction To Tourism Marketing	2	NA	Mr. Arun Bhatia
7.	TTM 420	Emerging trends and avenues in tourism industry	2	NA	Dr. S.Sundararaman
8.	TTM 427	Managerial Economics for Tourism	2	NA	Dr. S.Sundararaman
9.	TTM 426	Practical Tourism - Field Study Tour of identified circuits of India and Abroad - Viva Voice	2	NA	All Faculty of the Department

Courses for Semester 3

Sr. No	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	TTM 525	Geography of Tourism - II	4	NA	Dr S. Sundararaman
2.	TTM 509	Airline Ticketing and Cargo Management	2	NA	Dr S. Sundararaman
3.	TTM 409	Itinerary Preparation and Costing	2	NA	Mr Debasis Sahoo

4.	TTM 437	Front Office Operations in Hotels	4	NA	Mr Debasis Sahoo
5.	TTM 510	Resort Management	2	NA	Mr. Arun Bhatia
6.	TTM 438	Food & Beverage Service	4	NA	Mr. Arun Bhatia
7.	TTM 515	Sales Marketing and PR in service Industry	2	NA	Dr Suman Sharma
8.	TTM 529	Sales Promotion and Public Relations In Tourism	2	NA	Dr Suman Sharma
9.	TTM 539	Services Quality management in Tourism and Hospitality	2	NA	
10.	TTM 503	Quantitative Techniques for Travel and Tourism	2	NA	
11.	TTM 522	Strategic Management for Travel and Tourism	2	NA	
12.	TTM 533	Economics of tourism	2	NA	
13.	TTM 434	Student development program(Adventure group tour)	2	TTM450	All Faculty of the Department

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	TTM 410	Event Management	2	NA	Mr. Arun Bhatia
2.	TTM 510	Resort Management	2	NA	Mr. Debasis Sahoo
3.	TTM 407	Introduction To Tourism Marketing	2	NA	Mr. Arun Bhatia
4.	TTM 522	Strategic Management for Travel and Tourism	2	NA	Dr.S.Sundararaman
5.	TTM 515	Sales Marketing and PR in service Industry	2	NA	Mr. Arun Bhatia
6.	TTM 529	Sales Promotion and Public Relations In Tourism	2	NA	Mr. Arun Bhatia
7.	TTM 429	Security, Rescue and Disaster management	2	NA	Dr.S.Sundararaman