

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

**Spring Semester
(Jan – July 2014)**



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School of Business & Management Studies

School of Business & Management Studies

Name of the Programme of Study: MBA

Courses for Semester 2

Group A (ACCOUNTING & FINANCE)

Credits: 6

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	AFA 527	Strategic Financial Management*	2	NA	Dr. Mohinder Singh Dr. Asish Nag Dr. Manpreet Mr. M. AtiF
2	AFA 411	Management of Financial Institutions	2	NA	Dr. Manpreet
3	AFA 402	Fundamentals of Financial Services	2	NA	Dr. Asish Nag
4	AFA 498	Viva Voce in Accounting and Finance*	2	NA	

Group B (Marketing & Supply Chain Mgt.)

Credits: 6

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	MSC-506	Consumer Behaviour *	2	NA	Dr. Bhagwan Singh Dr. Sarvesh Kumar Mr. Ajay Kumar
2	MSC 520	Internet Based Marketing	2	NA	Dr. Bhagwan Singh
3	MSC 440	Retail Management	2	NA	Mr. Chaman Kashyap
4	MSC-498A	Oral Comprehensive in Marketing *	2	NA	

* Compulsory Course

Group C (HRM & OB)

Credits: 6

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	HRM 402	Human Resource Management*	2	NA	Dr. Aditi Sharma Dr. Gitanjali Upadhya Dr. Bhawna Bhardwaj
2	HRM 507	Conflict Management & Negotiation Skills	2	NA	Dr. Bhawna Bhardwaj
3	HRM-409	Leadership Concept And Theories	2	NA	Dr. Gitanjali Upadhya
4	HRM 498	Oral Comprehension in HRM*	2	NA	

Group D(EDM)**Credits: 6**

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	EDM 405	Management of MSME	2	NA	Mr. Chaman Kashyap
2	EDM 406	Managing Creativity Innovation and Incubation	2	NA	Mr. Ajay Kumar
3	EDM-403	Success Stories Of Entrepreneurs & Managers	2	NA	Dr. Sanjeev Gupta

School Wide Courses**Credits: 6**

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	POM-401	Operations Management*	2	NA	Dr. Sarvesh Kumar Mr. Ajay Kumar
2	HRM 402	Human Resource Management	2	NA	Dr. Aditi Sharma Dr. Gitanjali Upadhyay Dr. Bhawna Bhardwaj
3	AFA-527	Strategic Financial Management	2	NA	Dr. Mohinder Singh Dr. Asish Nag Dr. Manpreet Mr. M. AtiF
4	MSC-506	Consumer Behaviour	2	NA	Dr. Bhagwan Singh Dr. Sarvesh Kumar Mr. Ajay Kumar
5	EDM 405	Management of MSME	2	NA	Mr. Chaman Kashyap

*** Compulsory Course****Courses for Semester 4****Group A (ACCOUNTING & FINANCE)****Credits: 8**

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	AFA-532	Foreign Exchange Risk Management	2	NA	Dr. Sanjeev Gupta
2	AFA 524	Options, Futures and other Derivatives	2	NA	Dr. Asish Nag
3	AFA 508	Mergers and Acquisitions	2	NA	Dr. Manpreet
4	AFA 434	Corporate Taxation	2	NA	Dr. Mohinder Singh
5	AFA 511	Financial Engineering	2	NA	Mr. M. AtiF
6	AFA 499	Project Work in Finance*	2	NA	

Group B (Marketing & Supply Chain Mgt.)**Credits: 8**

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	MSC - 502	Marketing Research	2	NA	Mr. Ajay Kumar
2	MSC-422	Global SCM and International Logistics	2	NA	Dr. Sarvesh Kumar

3	MSC -514	Sales and Distribution Management	2	NA	Mr. Chaman Kashyap
4	MSC-522	Web- Based Advertising	2	MSC-504 or MSC-401	Dr. Bhagwan Singh
5	MSC-521	Advance Advertising Management	2	MSC-405 or MSC-401	Dr. Bhagwan Singh
6	MSC- 499	Project Work in Marketing and Supply Chain Management*	2	NA	

Group C (HRM & OB)

Credits: 8

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	HRM-409	Leadership Concepts and Theories	2	NA	Dr. Gitanjali Upadhya
2	HRM-512	Industrial Psychology	2	NA	Dr. Gitanjali Upadhya
3	HRM- 515	International Human Resource Management	2	NA	Dr. Bhawna Bhardwaj
4	HRM -525	Organizational Transformation and Development	2	NA	Dr. Aditi Sharma Dr. Bhawna Bhardwaj
5	HRM -509	Performance Management – System and Strategies	2	NA	Dr. Aditi Sharma
6	HRM 499	Project work *	2	NA	

*** Compulsory Course**

School Wide Courses

Credits: 8

S. No	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	POM-504	Operations Research*	2		Dr. Sanjeev Gupta Mr. M. AtiF
2	MSO 598	Comprehensive Viva-Voce*	2		
3	HRM-409	Leadership Concepts and Theories	2	Except HRM	Dr. Gitanjali Upadhya
4	HRM-512	Industrial Psychology	2	Except HRM	Dr. Gitanjali Upadhya
5	HRM- 515	International Human Resource Management	2	Except HRM	Dr. Bhawna Bhardwaj
6	HRM -525	Organizational Transformation and Development	2	Except HRM	Dr. Aditi Sharma Dr. Bhawna Bhardwaj
7	HRM -509	Performance Management – System and Strategies	2	Except HRM	Dr. Aditi Sharma

8	AFA-532	Foreign Exchange Risk Management	2	Except A&F	Dr. Sanjeev Gupta
9	AFA 524	Options, Futures and other Derivatives	2	Except A&F	Dr. Asish Nag
10	AFA 508	Mergers and Acquisitions	2	Except A&F	Dr. Manpreet
11	AFA 434	Corporate Taxation	2	Except A&F	Dr. Mohinder Singh
12	MIB-405	International Finance	2		Dr. Mohinder Singh
13	MSC - 502	Marketing Research	2	Except M&SCM	Mr. Ajay Kumar
14	MSC-422	Global SCM and International Logistics	2	Except M&SCM	Dr. Sarvesh Kumar
15	MSC -514	Sales and Distribution Management	2	Except M&SCM	Mr. Chaman Kashyap
16	MSC-522	Web- Based Advertising	2	MSC-504/MSC-401 (Except M&SCM)	Dr. Bhagwan Singh

*** Compulsory Course**

University Wide Courses

S. No.	Course Code	Course Name	Credit	Pre-Requisite/ Co-Requisite	Name of faculty
1	AFA-429	Financial Economics	2	NA	Dr. Mohinder Singh
2	MIB-405	International Finance	2	NA	Dr. Mohinder Singh
3	AFA-533	Economic Forecasting and Applications	2	NA	Dr. Sanjeev Gupta
4	AFA-527	Strategic Financial Management	2	NA	Dr. Mohinder Singh Dr. Asish Nag Dr. Manpreet Mr. M. AtiF
5	MSC-509	Green Marketing	2	NA	Dr. Sarvesh Kumar
6	MSC-420	Internet Based Marketing	2	NA	Dr. Bhagwan Singh
7	MSC-422	Global Supply Chain Management and International logistics	2	NA	Dr. Sarvesh Kumar
8	HRM-402	Human Resource Management	2	NA	Dr. Aditi Sharma Dr. Gitanjali Upadhya Dr. Bhawna Bhardwaj
9	HRM-409	Leadership Concepts and Theories	2	NA	Dr. Gitanjali Upadhya
10	HRM-411	Diversity and Cross Cultural Management	2	NA	Dr. Aditi Sharma
11	HRM-509	Performance Management – System and Strategies	2	NA	Dr. Aditi Sharma

12	AFA-532	Foreign Exchange Risk Management	2	NA	Dr. Sanjeev Gupta
13	MIB-411	International Business Environment	2	NA	Dr. Manpreet
14	CSR-401	Human Values and Ethics	2	NA	Dr. Aditi Sharma Dr. Gitanjali Upadhya
15	MSC-401	Marketing Management	2	NA	
16	MSC-506	Consumer Behaviour	2	NA	Dr. Bhagwan Singh Dr. Sarvesh Kumar Mr. Ajay Kumar
17	MSC- 440	Retail Management	2	NA	Mr. Chaman Kashyap
18	AFA- 411	Management of Financial Institutions	2	NA	Dr. Manpreet
19	AFA- 402	Fundamentals of Financial Services	2	NA	Dr. Asish Nag
20	MSC-522	Web- Based Advertising	2	MSC-504/MSC-401	Dr. Bhagwan Singh
21	HRM-512	Industrial Psychology	2	NA	Dr. Gitanjali Upadhya
22	SWR 405	Basics of Research Methodology	2	NA	Mr. Ajay Kumar
23	MSC-501	Social Marketing	2	NA	Dr. Sarvesh Kumar

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 2

Sr. No.	Course code	Course name	Credits	Code no. of pre-requisite/co-requisite if any	Teacher
1	ENV 517	Earth System Science	2	NA	Anupam Sharma(AS)
2	ENV 411	Waste Management	2	NA	Deepak Pant (DP)
3	ENV 408	Biodiversity and Wild Life Management	2	NA	Mushtaq Ahmed (MA)
4	ENV 404	Energy and Environment	2	NA	Ankit Tandon (AT)
5	ENV 428	Himalayan Geology	2	NA	Ambrish Mahajan
6	ENV 550	Microbial Ecology	2	NA	Mushtaq Ahmed
7	ENV 540	Water harvesting in Hilly regions	2	NA	Anurag Linda
8	ENV 552	Analytical Technique (Physical Sciences)	2	NA	Ankit Tandon
9	ENV 419	Geo Sciences Lab	2	NA	Ambrish Mahajan
10	ENV 553	Environmental Thermodynamics	2	NA	Subhankar Chatterjee (SC)
11	ENV 554	Environmental conservation and sustainable development	4	NA	Mushtaq Ahmed

Courses for Semester 4

Sr. No.	Course code	Course name	Credits	Code no. of pre-requisite/co-requisite if any	Teacher
1	ENV 548	Introduction Environmental Impact Assessment	2	NA	Anupam Sharma
2	ENV 503	Environmental Legislations: National and International	2	NA	Mushtaq Ahmed
3	ENV 523	Toxic and Hazardous waste Management	4	NA	Deepak Pant

4	ENV 532	Industrial Training/ Field Work/ Project	4	NA	Deepak Pant/Subhankar Chatterjee
5	ENV 557	Bio-resources and Environmental Biotechnology	4	NA	Subhankar Chatterjee
6	ENV 532	Industrial Training/ Field Work/ Project	4	NA	Mushtaq Ahmed/ Subhankar Chatterjee
7	ENV 521	Geo-engineering	2	NA	Ambrish K Mahajan
8	ENV 559	Environmental Geophysics	2	NA	Ambrish K Mahajan (AKM)
9	ENV 509	Glaciology	4	NA	Anurag Linda
10	ENV 541	Techniques of artificial recharge in hilly region		NA	Anurag Linda
11	ENV 532	Industrial Training/ Field Work/ Project	4	NA	AKM/AS/AL
12	ENV 560	Meteorology and Climatology	4	NA	Ankit Tandon
13	ENV 561	Science of Climate Change	2	NA	Ankit Tandon
14	ENV 532	Industrial Training/ Field Work/ Project	4	NA	Ankit Tandon

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. Of Pre-requisite/Co-requisites if any	Teacher
1	ENV 501	Environmental Pollution and Human Health	2	NA	Subhankar Chatterjee
2	ENV 425	Application of Remote sensing and GIS	2	NA	Anurag Linda (AL)

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 2

Sr. No.	Course Code	Course Name	Credits	Code No. Of Pre-requisite/Co-requisites if any	Teacher
1.	TTR 402	Philosophical Foundations of Education	2	NA	Dr. Navneet Sharma
2.	TTR 409	Education in Emerging Indian Society	2	NA	Ms. Prakrati Bhargava
3.	TTR 419	Advanced Educational Psychology	4	NA	Dr. Anu G.S. / Ms. Renu Bhandari
4.	TTR 421	Educational Measurement & Evaluation	2	NA	Dr. Manoj K Saxena
5.	TTR 413	Action Research in Education	2	NA	Dr. Anu G.S.

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. Of Pre-requisite/ Co-requisites if any	Teacher
1.	CSR 401	Human Values and Ethics	2	NA	Dr. Arbind K Jha
2.	SWR 405	Basics of Research Methodology	2	NA	Dr. Arbind K Jha
3.	TTR 504	Research Report Writing	2	NA	Dr. Arbind K Jha
4.	TTR 608	Philosophy of Educational Research	4	NA	Dr. Arbind K Jha
5.	TTR 602	Development & Standardization of Research Tools	4	NA	Dr. Manoj K Saxena
6.	TTR 412	ICT in Education	2	NA	Dr. Manoj K Saxena

7.	TTR 610	Values & Ethics in Education	4	NA	Dr. Navneet Sharma
8.	TTR 416	Education for Women Empowerment	2	NA	Dr. Navneet Sharma
9.	TTR 414	Education for Values & Human Rights	4	NA	Dr. Navneet Sharma
10.	TTR 606	Quantitative Research in Education	4	NA	Dr. Anu G.S.
11.	HRM 407	Emotional Intelligence	2	NA	Dr. Anu G.S.
12.	TTR 501	Research Methods and Statistics in Education – Part – II	2	NA	Dr. Anu G.S.
13.	TTR 605	Qualitative Research in Education	4	NA	Ms. Prakrati Bhargava
14.	TTR 502	Comparative Education	2	NA	Ms. Prakrati Bhargava
15.	TTR 603	Politics and Economics in Education	4	NA	Ms. Prakrati Bhargava
16.	TTR 410	Educational and Vocational Guidance	4	NA	Ms. Renu Bhandari
17.	TTR 411	Education of Children with Special Needs	4	NA	Ms. Renu Bhandari
18.	TTR 415	Environmental Education	2	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 2

Sr. No.	Course Code	Name of Course	Credit	Code No. of Pre-requisite/ Co-requisites if any	Name of Teacher
1.	EEL 408	Literature and Gender: Global Perspectives	2	NA	Ms. Shaweta Nanda (SN)
2.	EEL 418	Studying the Canon: Shakespeare	4	NA	Dr. Khem Raj Sharma(KRS)
3.	EEL 432	Mystical Literature in English Translation	2	NA	Dr. Roshan Lal Sharma (RLS)
4.	EEL 435	Popular Literature	2	NA	Ms. Shaweta Nanda (SN)
5.	EEL 442	Teaching Language through Literature	2	NA	Dr. Roshan Lal Sharma & Dr. KBS Krishna (KBS)
6.	EEL 501	Romanticism	4	NA	Mr. Hem Raj Bansal (HRB)
7.	EEL 502	Victorianism	4	NA	KBS

Courses for Semester 4

Sr. No.	Course Code	Name of Course	Credit	Code No. of Pre-requisite/ Co-requisites if any	Name of Teacher
1.	EEL 416	Introduction to Translation Studies	2	NA	Dr. Khem Raj Sharma
2.	EEL 509	Australian Literature	4	NA	Mr. Hem Raj Bansal
3.	EEL 511	Modern Literary Theory	4	NA	Dr. Roshan Lal Sharma
4.	EEL 512	Indian Writing in English	4	NA	KBS
5.	EEL 515	African Literature	4	NA	Ms. Shaweta Nanda
6.	EEL 499	Dissertation	4	NA	SN; KRS; KBS; HRB; RLS

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 Adaptation	2	NA	KBS & SN
2.	EEL 411	Advanced Reading and Comprehension	2	NA	RLS & KBS
3.	EEL 412	Academic Writing	2	NA	SN; KRS; KBS; HRB
4.	EEL 438	Short Stories from around the World	2	NA	HRB & SN
5.	EEL 413	Advanced Analytical English	2	NA	RLS & KBS
6.	EEL 432	Mystical Literature in English Translation	2	NA	RLS
7.	EEL 435	Popular Literature	2	NA	SN

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 2

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	HIL401	Khadi boli k purva ka kavya : Neeti kavya ram kavya,Krishna kavya,sufi	4	NA	Chandrakant Singh
2	HIL403	Khadi boli ka kavya : Rashtra aur kavita	2	NA	Chandrakant Singh
3.	HIL409	Upanyaas	4	NA	Dr. Sayema Bano
4.	HIL430	Sahityik siddhant: prachin	2	NA	Dr. Sayema Bano

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	HIL418	Hindi Sahitya aur Cinema: Hindi ki Kritiyon aur Sahityakaron par film	4	NA	Chandrakant Singh Dr. Sayema Bano
2	HIL451	Hindi Geet,Navgeet aur Ghazal	2	NA	Chandrakant Singh 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 2

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 526	Science and Technology Journalism	2	NA	Dr. Archna Katoch
3.	JCW 510	Legislature Journalism	4	NA	Dr. Archna Katoch
4.	JCW 523	Media and Social Issues	2	NA	Mr. Harsh Mishra
5.	JCW 403	Evolution of Communication and Journalism	4	NA	Mr. Harsh Mishra
6.	JCW 525	Film Studies	2	NA	Mr. Harikrishnan B.
7.	JCW 506	Web Journalism & Designing	4	NA	Mr. Harikrishnan B.
8.	JCW 502	Photojournalism	4	NA	Mr. Harikrishnan B.

Courses for Semester 4

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	JCW 505	Advertising	4	NA	Dr.M.Rabindranath
2.	JCW 407	Media Management and News Paper Production	4	NA	Dr. Archna Katoch
3.	JCW 408	Media and Gender	2	NA	Dr. Archna Katoch
4.	JCW 513	Business Journalism	4	NA	Mr. Harsh Mishra
5.	JCW 519	Sports Journalism	4	NA	Mr. Harsh Mishra
6.	JCW 515	Art and Culture Journalism	4	NA	Mr. Harikrishnan B.
7.	JCW 405	Computer Applications for Journalism	4	NA	Mr. Harikrishnan B.
8.	JCW 524	Education Journalism	2	NA	Mr. Harikrishnan B.

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 505	Advertising	4	NA	Mr. Harsh Mishra
3.	JCW 523	Media and Social Issues	2	NA	Mr. Harsh Mishra
4.	JCW 403	Evolution of Communication and Journalism	4	NA	Mr. Harsh Mishra
5.	JCW 513	Business Journalism	4	NA	Mr. Harsh Mishra
6.	JCW 519	Sports Journalism	4	NA	Mr. Harsh Mishra
7.	JCW 528	Science and Environment Journalism	2	NA	Dr. Archna Katoch
8.	JCW 406	Feature and Creative Writing	2	NA	Dr. Archna Katoch
9.	JCW 529	Editorial Writing	2	NA	Dr. Archna Katoch
10.	JCW 407	Media Management and News Paper Production	4	NA	Dr. Archna Katoch
11.	JCW 408	Media and Gender	2	NA	Dr. Archna Katoch
12.	JCW 405	Computer Applications for Journalism	4	NA	Mr. Harikrishnan B.
13.	JCW 506	Web Journalism & Designing	4	NA	Mr. Harikrishnan B.
14.	JCW 515	Art and Culture Journalism	4	NA	Mr. Harikrishnan B.
15.	JCW 502	Photojournalism	4	NA	Mr. Harikrishnan B.
16.	JCW 525	Film Studies	2	NA	Mr. Harikrishnan B.

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 2

Sr. No.	Course Code	Course Name	Credits	Code No pf Pre-requisitie/ Co-requisites if any	Teacher
1	MCE 511	Media Production Techniques	4	MCE 425	Dr. Pradeep Nair
2	MCE 410	Social Networking	4	NA	Dr. R.P. Rai
3	MCE 403	Reporting and Editing	4	NA	Kuldeep Singh
4	MCE 406 A	Web Technologies and Applications	2	NA	Dr. Pradeep Nair
5	MCE 417	Digital Technology Divide and Social Inclusion	2	NA	Dr. Pradeep Nair

Courses for Semester 4

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisitie/ Co-requisites if any	Teacher
1	MCE 407	Communication Research	4	NA	Dr. Pradeep Nair
2	MCE 502	Video Editing/Online Editing	4	NA	Kuldeep Singh
3	MCE 515	Film Production	4	MCE 514	Dr. R.P. Rai
4	MCE 517	Production Management	2	NA	Kuldeep Singh
5	MCE 418	Exposure to New Media Industries	2	NA	Dr. Pradeep Nair
6	MCE 518	Media Internship	4	NA	Dr. Pradeep Nair/Dr. R.P. Rai/Kuldeep Singh

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	MCE 410	Social Networking	4	NA	Dr. R.P. Rai
2	MCE 403	Reporting and Editing	4	NA	Kuldeep Singh
3	MCE 407	Communication Research	4	NA	Dr. Pradeep Nair
4	MCE 405	Corporate Communication	4	NA	Harsh Mishra
5	MCE 419	Social and Cultural Context of Communication	2	NA	Harsh Mishra
6	MCE 417	Digital Technology Divide and Social Inclusion	2	NA	Dr. Pradeep Nair

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 2

S. No.	Course Code	Course Title	Credits	Pre-requisite/ Co-requisites if any	Name of The Teacher
1.	CBB 417	Structure 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 518	Elements of Systems Biology	4	NA	Dr. Vikram Singh
5.	CBB 403	Introduction to Statistics and Probability	2	NA	Dr. P. Aparoy
6.	CBB 422	Basics of Microbiology and Immunology	2	NA	Dr. P. Aparoy
7.	CBB 409	Computational Methods in Sequence Analysis	2	NA	Mr. Shailender Kumar Verma
8.	CBB 509	Data Mining & Knowledge discovery	4	NA	Mr. Shailender Kumar Verma
9.	CBB 414	Practical Course on Bioinformatics tools	2	NA	Mr. Shailender Kumar Verma

Courses for Semester 4

S. No.	Course Code	Course Title	Credit	Pre-requisite/ Co-requisites if any	Name of The Teacher
1.	CBB 516	Molecular Evolution & Biodiversity	4	NA	Dr. Yusuf Akhter
2.	CBB 501	Algorithms in Computational Biology	4	NA	Dr. Vikram Singh
3.	CBB 518	Elements of Systems Biology	4	NA	Dr. Vikram Singh
4.	CBB 513	Chemoinformatics	4	NA	Dr. P. Aparoy
5.	CBB 420	Cell Biology and Genetics	4	NA	Mr. Shailender Kumar Verma
6.	CBB 499	Major Project	4	NA	Dr. Yusuf Akhter/ Dr. Vikram Singh / Dr. P. Aparoy / Shailender K. Verma

7.	CBB 515	Computer Aided Drug Discovery	4	NA	Dr. P. Aparoy
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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 422	Basics of Microbiology and Immunology	2	NA	Dr. P. Aparoy
4.	CBB 401	Mathematics in Biology	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 2

Sr. No.	Course code	Course name	Credits	Code no. Of pre-requisite/ co-requisites if any	Teacher
1	MTH 404	Abstract algebra	4	NA	Dr. Ravinder singh
2	MTH 406	Real analysis	4	NA	Dr. S. K. Srivastava
3	IAM 404	Mathematical methods	4	NA	Dr. Rakesh kumar
4	IAM 403	Numerical analysis	4	NA	Dr. Rakesh kumar
5	SAS 407	Probability and statistics	4	NA	Dr. S. K. Srivastava

Courses for Semester 4

Sr. No.	Course code	Course name	Credits	Code no. Of pre-requisite/ co-requisites if any	Teacher
1	IAM 407	Differential geometry	4	MTH 403	Dr. S. K. Srivastava
2	IAM 501	Functional analysis	4	MTH 406	Dr. Ravinder singh
3	MTH 503	Discrete mathematics	4	NA	Dr. Rakesh kumar
4	MTH 509	Financial mathematics	4	NA	Dr. Ravinder singh
5	MTH 510	Number theory	4	NA	Dr. Ravinder singh

University Wide Courses

Sr. No.	Course code	Course name	Credits	Code no. Of pre-requisite/ co-requisites if any	Teacher
1	IAM 403	Numerical analysis	4	NA	Dr. Rakesh kumar
4	SAS 407	Probability and statistics	4	NA	Dr. S. K. Srivastava
3	MTH 509	Financial mathematics: the mathematics of money	4	NA	Dr. Ravinder singh

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 2

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if	Teacher
1.	CSI420	Data Structure & Algorithms	4	CSI401	Keshav Singh Rawat
2.	CSI422	LAB- Data Structure	2	CSI407A	Keshav Singh Rawat
3.	CSI409A	DBMS	4	NA	Manoj Dhiman
4.	CSI414A	LAB- DBMS	2	CSI409A	Manoj Dhiman

Courses for Semester 4

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if	Teacher
1.	CSI419	Compiler Design	4	CSI532	Keshav Singh
2.	CSI501	Design & Analysis of Algorithm	2	CSI420	Keshav Singh Rawat
2.	CSI503	Java Programming	4	CSI410	Manoj Dhiman
3.	CSI508A	LAB- Java	2	NA	Manoj Dhiman
4.	CSI515	Information Technologies & Web Design	4	NA	Guest Faculty
5.	CSI508C	LAB- ASP.NET	2	CSI515	Guest Faculty

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	CSI420	Data Structure &	4	CSI401	Keshav Singh
2.	CSI422	LAB- Data Structure &	2	CSI407A	Keshav Singh
3.	CSI409A	DBMS	4	NA	Manoj Dhiman
4.	CSI414A	LAB- DBMS	2	CSI409A	Manoj Dhiman

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 2

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	LIS 406	Knowledge Organization and Information Processing (Practice): Cataloguing	2	LIS405	Sh. Nimmala Karunakar.
2.	LIS 410	Fundamentals of Information and Communication Technology	4	NA	Sh. Nimmala Karunakar.
3.	LIS 411	Management of Libraries and Information Centers	2	NA	Sh. Nimmala Karunakar.
4.	LIS 414	Information sources and services	2	NA	Sh. Nimmala Karunakar.
5.	LIS 405	Knowledge Organization and Information Processing (Theory):Cataloguing	2	NA	Dr. Dimple Patel
6.	LIS 407	Knowledge Organization and Information Processing (Theory): Classification	2	NA	Dr. Dimple Patel
7.	LIS 415	Knowledge society	2	NA	Prof. I.V. Malhan
8.	LIS 412	Internship	2	NA	Prof. I.V. Malhan
9.	LIS 499	Dissertation/Project	4	NA	Prof. I.V. Malhan
10	LIS 408	Knowledge Organization and Information Processing (Practical): Classification	4	LIS407	Prof. I.V. Malhan

Courses for Semester 4

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	LIS 504	Digital library (practical)	2	NA	Sh. Nimmala Karunakar.
2.	LIS 411	Management of Libraries and Information Centers	2	NA	Sh. Nimmala Karunakar.
3.	LIS 416	Information Storage and Retrieval	2	NA	Dr. Dimple Patel
4.	LIS 503	Digital Library	2	NA	Dr. Dimple Patel
5.	LIS 510	IPRS in Digital Era	2	NA	Dr. Dimple Patel

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.
2.	LIS 510	IPRS in Digital Era	2	NA	Dr. Dimple Patel

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 2

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	PAS 406	Statistical Mechanics	2	PAS 407	Dr Ayan Chatterjee
2	PAS 407	Advanced Quantum Mechanics	2	PAS 407	Dr Surender Verma
3	PAS 408	Elementary Condensed Matter Physics	2	NA	Dr Jagdish
4	PAS 409	Nuclear and Particle Physics	2	NA	Dr Dalip Singh
5	PAS 424	Advanced Classical Electrodynamics	2	PAS 401, PAS 403	Dr B. C. Chauhan
6	PAS 414	Computer Simulations in Physics	2	NA	Dr O.S.K.S. Sastri, Dr Surender Verma and Dr Jagdish
7	PAS 423	Modern Physics Lab	2	NA	Dr K.B. Joshi, Dr B.C. Chauhan, Dr Ayan and Dr Dalip

Courses for Semester 4

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	PAS 521	Atomic and Molecular Spectroscopy	2	PAS 407	Dr O S K S Sastri
2	PAS 527	Theoretical Nuclear Physics	4	PAS 505	Dr Dalip Singh
3	PAS 530	Soft Condensed Matter Physics	2	PAS 503	Dr Jagdish
4	PAS 531	Mesoscopic Physics	2	PAS 503	Dr Jagdish
3	PAS 532	Quantum Theory of Many Body Physics	4	PAS 524	Dr K B Joshi

4	PAS 545	Unitary Symmetries in Quantum Physics	2	PAS 509, PAS 528	Dr Surender Verma
5	PAS 546	Neutrino Physics	2	PAS 407, PAS 505	Dr Surender Verma
6	PAS 549	Elementary Particles and Interactions	4	PAS 505	Dr B C Chauhan
7	PAS 553	Standard Model, Higgs Physics and Beyond	4	PAS 505	Dr Ayan Chatterjee
8	PAS 548	Project Work	4	NA	All members of dept
9	PAS 520	Seminar	4	NA	All members of dept

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	PAS	A lab Course on Computational Methods in Physics	4	NA	Dr O S K S Sastri

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 2

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite / Co-requisites if any	Teacher
1.	SWR 405	Basics of Research Methodology	2	NA	Prof A. Agrawal
2.	SWR 406	Social Case Work	2	SWR 401, SWR 409	Dr Asutosh Pradhan
3.	SWR 407	Social Group Work	4	SWR 401, SWR 409	Mr Shabab Ahmad
4.	SWR 408	Community Organisation	4	SWR 401, SWR 409	Ms Ambreen Jamali
5.	SWR 416	Concurrent Field Work and Viva - II	2	SWR 405, SWR 409	All Faculty

Courses for Semester 4

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite / Co-requisites if any	Teacher
1.	SWR 417	Concurrent Field Work and Viva-III	4	SWR 405, SWR 409	All Faculty
2.	SWR 404	Social Welfare Administration	2	NA	Ms Ambreen Jamali
3.	SWR 420	Social Work Practice in Rural Community Development	2	NA	Ms Ambreen Jamali
4.	SWR 440	Social Work Practice in Environmental Protection	2	NA	Mr Shabab Ahmad
5.	SWR 442	Geriatric Social Work Practice	2	NA	Dr Asutosh Pradhan
6.	SWR 444	Social Work Practice in Alcohol and Substance Abuse	2	NA	Mr Shabab Ahmad
7.	SWR 499	MSW Dissertation	4	NA	All Faculty
8.	SWR 430	Social Work Practice in Disaster Management	2	NA	Dr Asutosh Pradhan

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	SWR 405	Basics of Research Methodology	2	NA	Prof A. Agrawal
2.	SWR 440	Social Work Practice in Environmental Protection	2	NA	Mr S. Ahmad
3.	SWR 430	Social Work Practice in Disaster Management	2	NA	Dr Asutosh Pradhan
4.	CSR 402	Corporate Social Responsibility	2	NA	Dr Asutosh Pradhan
5.	SWR 407	Social Group Work	4	401, 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 2

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	ECN 503	Econometric Methods	4	NA	Mr. Indervir Singh
2	ECN 402	Macroeconomic Theory	4	NA	Prof. HR Sharma
3	ECN 410	Economic Development and Planning	4	NA	Mr. Amit K. Basantaray

Courses for Semester 4

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	ECN 408	Public Economics	4	NA	Mr. Kamal Singh
2	ECN 409	Money & Banking	4	NA	Mr. Amit K. Basantaray
3	ECN 514	Community Lab for Economics	4	NA	Mr. Amit K. Basantaray\ Prof. HR Sharma
4	ECN 416	Environmental Economics	4	NA	Mr. Indervir Singh
5	ECN 412	Industrial Economics	4	NA	Mr. Indervir Singh
6	ECN415	Labour Economics	4	NA	Mr. Kamal Singh
4	ECN 448	Professional Development Activity*	4	NA	Mr. Kamal Singh

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	ECN 406	Basics of Macroeconomics	2	NA	Mr. Kamal Singh
2	ECN 444	Economics of Micro-Finance	2	NA	Mr. Amit K. Basantaray
3	ECN 445	Basic Terms and Concepts in Economics	2	NA	Mr. Amit K. Basantaray

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 2

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	TTM 427	Managerial Economics for Tourism	02	NA	Dr S. Sundararaman
2.	TTM 429	Security, Rescue and Disaster management	02	NA	Dr S. Sundararaman
3	TTM 436	House Keeping in Hospitality Operations	04	NA	Mr Debasis Sahoo
4	TTM 437	Front Office Operations in Hotels	04	NA	Mr Debasis Sahoo
5	TTM 428	Personal Selling and Salesmanship	02	NA	Mr. Arun Bhatia
6	TTM 528	Management Information System	02	NA	Mr. Arun Bhatia
7	TTM 401	Introduction to Travel Agency and Tour Operation Business	02	NA	Dr Suman Sharma
8	TTM 409	Itinerary Preparation and Costing	02	NA	Dr Suman Sharma
9	TTM 431	Galileo CRS Training	02	NA	Dr Suman Sharma

Courses for Semester 4

Sr. No	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1.	TTM 533	Economics of Tourism	02	NA	Dr S. Sundararaman
2.	TTM 522	Strategic Management for Tourism and Travel	02	NA	Dr S. Sundararaman
3	TTM 437	Front Office Operations in Hotels	04	TTM 422	Mr Debasis Sahoo

4	TTM 438	Food and Beverage Service	04	TTM 422	Mr Debasis Sahoo
5	TTM 526	E - Tourism	02	NA	Mr. Arun Bhatia
6	TTM 539	Service Quality Management in Tourism and Hospitality	02	NA	Mr. Arun Bhatia
7	TTM 525	Tourism Geography Pt II	04	NA	Dr Suman Sharma
8	TTM 518	Specialization Travel Agencies and Tour Operations	02	NA	Dr Suman Sharma

University Wide Courses

Sr. No.	Course Code	Course Name	Credits	Code No. of Pre-requisite/ Co-requisites if any	Teacher
1	TTM 429	Security, Rescue and Disaster management	02	NA	Dr S. Sundararaman
2	TTM 528	Management Information System	02	NA	Mr. Arun Bhatia
3	TTM 428	Personal Selling and Salesmanship	02	NA	Mr. Arun Bhatia
4	TTM 533	Economics of Tourism	02	NA	Dr S. Sundararaman
5	TTM 526	E - Tourism	02	TTM-407	Mr. Arun Bhatia