

हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय Central University of Himachal Pradesh

धर्मशाला, जिला-कांगड़ा,
हिमाचल प्रदेश, भारत - 176215

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Dharamshala, District Kangra,
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सर्टिफिकेट / स्नातक / स्नातकोत्तर
पाठ्य कार्यक्रमों में प्रवेश हेतु

विवरणिका 2017-18

PROSPECTUS 2017-18
FOR ADMISSION TO
CERTIFICATE/UG/PG PROGRAMMES

Amended as on 04.05.2017

Last date for submission of Application:

28th May 2017 (Sunday) for PG Programmes; and

29th May 2017 (Monday) for UG Programmes

विश्वविद्यालय के प्राधिकारीगण
Authorities of the University

श्री प्रणब मुखर्जी विश्वविद्यालय के माननीय कुलाध्यक्ष महामहिम भारत के राष्ट्रपति	Shri Pranab Mukherjee The Visitor of the University His Excellency, The President of India
श्री अरुण मायरा विश्वविद्यालय के कुलाधिपति	Shri Arun Maira The Chancellor
प्रो. कुलदीप चन्द अग्निहोत्री माननीय कुलपति	Prof. Kuldeep Chand Agnihotri The Vice Chancellor
प्रो. योगिन्द्र एस. वर्मा प्रति-कुलपति	Prof. Yoginder S. Verma Pro Vice-Chancellor
प्रो. हंसराज शर्मा अधिष्ठाता, छात्र कल्याण अधिष्ठाता, समाज विज्ञान स्कूल अधिष्ठाता, पर्यटन, यात्रा एवं आतिथ्य प्रबंधन स्कूल अधिष्ठाता, ललित कला एवं कला शिक्षा स्कूल	Prof. Hans Raj Sharma Dean, Students' Welfare Dean, School of Social Sciences Dean, School of Tourism Travel & Hospitality Management Dean, School of Fine Arts & Art Education
प्रो. आई.वी.मल्हन अधिष्ठाता गणित, कंप्यूटर एवं सूचना विज्ञान स्कूल	Prof. I.V. Malhan Dean School of Mathematics, Computers & Information Sciences
प्रो. अम्बरीश कुमार महाजन अधिष्ठाता, जैविक विज्ञान स्कूल	Prof. Ambrish Kumar Mahajan Dean School of Life Sciences
डॉ. दीपक पंत अधिष्ठाता पृथ्वी एवं पर्यावरण विज्ञान स्कूल	Dr. Deepak Pant Dean School of Earth & Environmental Sciences
डॉ. रोशन लाल शर्मा अधिष्ठाता, मानविकी एवं भाषा स्कूल एवं प्रॉक्टर	Dr. Roshan Lal Sharma Dean, School of Humanities and Languages & Proctor
डॉ. ओ.एस.के.एस. शास्त्री अधिष्ठाता भौतिक एवं पदार्थ विज्ञान स्कूल	Dr. O.S.K.S. Sastri Dean School of Physical and Material Sciences
डॉ. संजीव गुप्ता अधिष्ठाता व्यवसाय एवं प्रबंधन अध्ययन स्कूल	Dr. Sanjeev Gupta Dean School of Business and Management Studies
डॉ. मनोज सक्सेना अधिष्ठाता शिक्षा स्कूल	Dr. Manoj Saxena Dean School of Education
डॉ. प्रदीप नायर अधिष्ठाता पत्रकारिता, जनसंचार एवं नव मीडिया स्कूल	Dr. Pradeep Nair Dean School of Journalism, Mass Communication and New Media
ब्रिग. जगदीश चंद रांगड़ा, वाई.एस.एम. (सेनि.) कुलसचिव	Brig. Jagdish Chand Rangra, YSM (Retd) The Registrar
प्रो. हंसराज शर्मा वित्त अधिकारी (अतिरिक्त प्रभार)	Prof. Hans Raj Sharma The Finance Officer (Additional Charge)
डॉ. संजीव शर्मा परीक्षा नियंत्रक	Dr. Sanjiv Sharma The Controller of Examinations

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Dates to Remember

Events	Dates	
	Certificate/UG Programmes	PG Programmes
Issue of Online Prospectus	1 st May 2017	1 st May 2017
Last Date for Submission of Online Applications	29 th May 2017	28 th May 2017
Date and Time of Entrance Examination for PG Programmes of Study only	-----	11 th June 2017 at 10:00 AM
Declaration of Results of Entrance Examination	-----	6 th July 2017
Display of the First List of Selected Candidates (including Waiting List)	15 th June 2017	10 th July 2017
Payment of Fees by	02 nd July 2017	16 th July 2017
Display of the Second List of Selected Candidates (Including waiting List)	03 rd July 2017	17 th July 2017
Payment of Fees by	16 th July 2017	23 rd July 2017
Display of the Third List of Selected Candidates.	17 th July 2017	24 th July 2017
Payment of Fees by	30 th July 2017	30 th July 2017
<ul style="list-style-type: none"> • Verification of Documents • Registration 	31 st July 2017	31 st July 2017
<ul style="list-style-type: none"> • Commencement of Classes • Orientation Programme 	1 st August 2017	1 st August 2017

IMPORTANT

Admission to Certificate/UG Programmes of Study will be done on the basis of Merit of 10+2 Examination.

PLEASE NOTE.....

- **Hall Tickets for the Entrance Examination**
 - To be downloaded and printed from the University Website (www.cuhimachal.ac.in).
 - Please note the Hall Tickets will **NOT** be sent by post.
 - Hall Ticket may be collected in person from the office of the University.
- **Intimation regarding Entrance Test, Entrance Examination Centres, List of Candidates finally Selected/Waitlisted shall be displayed only on the**
 - University Website (www.cuhimachal.ac.in)
 - Notice Boards of the Controller of Examinations, TAB, Shahpur
 - Notice Boards of the School/Department/Centre concerned.
- **No intimation to the candidates will be sent by post.**

Message from the Vice Chancellor

हिमाचल प्रदेश केंद्रीय विश्वविद्यालय, धर्मशाला धीरे-धीरे अपनी विशिष्ट पहचान स्थापित कर रहा है, यह प्रसन्नता का विषय है। भारत में उच्च शिक्षा और शोध की प्राचीन काल से ही समृद्ध परम्परा रही है। जिन दिनों विश्व के अन्य महाद्वीप ज्ञान की प्रारम्भिक अवस्था में थे, उन दिनों भारत में अंतर्राष्ट्रीय स्तर के तक्षशिला, नालंदा और विक्रमशिला जैसे विश्वविद्यालय स्थापित हो चुके थे। इन विश्वविद्यालयों में पढ़ने के लिए सुदूर क्षेत्रों के विद्यार्थी आते थे। यह देश का दुर्भाग्य ही कहा जाना चाहिए कि अरबों, तुर्कों, ईरानियों और मुगलों के आक्रमणों ने देश में ज्ञान-विज्ञान की इस समृद्ध परम्परा को अवरुद्ध ही नहीं किया बल्कि पुस्तकालयों में पड़ी असंख्य पांडुलिपियों को भी आग के हवाले कर दिया। कालांतर में जब अंग्रेजों ने इस देश पर कब्जा कर लिया तो उन्होंने अपने प्रशासन की आवश्यकताओं के अनुरूप शिक्षा पद्धति विकसित की और उसी के अनुसार यहाँ प्रारंभिक विश्वविद्यालयों की स्थापना की। इन विश्वविद्यालयों में ज्ञान और विज्ञान की पहल यूरोपीय जगत के हाथों में आ गयी और कालांतर में उसी का अनुसरण किया जाने लगा।



यह प्रसन्नता का विषय है कि भारत सरकार ने विदेशी आक्रमणकारियों के कारण ज्ञान परम्परा के अविरल प्रवाह में पड़े व्यवधान की कड़ियों को फिर से जोड़ने के प्रयास किये हैं। नालंदा विश्वविद्यालय का पुनरुद्धार इसका प्रमाण है।

मेरी इच्छा है कि पूर्वकाल में पश्चिमोत्तर के तक्षशिला विश्वविद्यालय को पुनर्जीवित करने का प्रयास हिमाचल प्रदेश केंद्रीय विश्वविद्यालय के रूप में होना चाहिए। यह विश्वविद्यालय केवल भारत में ही नहीं बल्कि पड़ोसी देशों के बीच भी ज्ञान-विज्ञान की संवाद रचना के लिए व्यास आसन बने, यही मेरी कामना है। इसके लिए विश्वविद्यालय से जुड़े सभी छात्रों और अध्यापकों को मिलकर भागीरथ प्रयास करना होगा और उन्हीं उच्च परम्पराओं का अनुसरण और उनके अनुरूप आचरण भी करना होगा।

सभी के सहयोग से हम अपनी इस यात्रा में सफल होंगे, ऐसा मेरा विश्वास है।

(कुलदीप चंद अग्निहोत्री)

ABOUT THE UNIVERSITY

GENESIS

The Prime Minister, in his address to the nation on August 15, 2007, announced the establishment of a Central University in each of the states that did not have a central university so far. Subsequently, 11th Plan provided for the establishment of 16 new Central Universities. Accordingly, the Central Universities Act 2009 (No. 25 of 2009) which received Presidential assent on 20th March 2009 provided for the establishment of Central University of Himachal Pradesh amongst others.

ESTABLISHMENT OF THE UNIVERSITY

The Central University of Himachal Pradesh is established under the Central Universities Act 2009 (No. 25 of 2009) enacted by the Parliament. The University is funded and regulated by the University Grants Commission (UGC). The University became functional with the assumption of charge by the first Vice Chancellor on 20th January 2010.

VISION OF THE UNIVERSITY

While the development of infrastructure of the University may take a while, it has an ambitious Vision Document prepared in consultation with eminent experts in the field of education. The Vision Document and Strategic Plan of the University as approved by the statutory authorities of the University are available at the website of the University (www.cuhimachal.ac.in). Accordingly, in due course of time, the University will grow to have purpose-built, state-of-the-art campus that will have 17 Schools of Study with nearly 90 Departments of Study and about 50 Centres of Study.

LOCATION AND HEADQUARTERS

The Headquarters of the University is located at Dharamshala, District Kangra, Himachal Pradesh. Dharamshala is a place with profile and is known worldwide. Serene Location, pleasant climatic condition, spiritual environment provide an attractive ambience conducive to academic pursuits.

PERMANENT CAMPUSES

The University will have campus (es) as and when land is made available by the State Government free from all encumbrances.

TEMPORARY CAMPUSES

Pending the development of its own infrastructure and permanent campus (es), the University is presently operating from its Temporary Campuses comprising the following facilities:

CAMP OFFICE

The Camp Office, which presently serves as the Headquarters of the University is located in the Sanskriti Sadan (Writers' Home), at Dharamshala (Near International Cricket Stadium), District Kangra. The Offices of the Vice Chancellor, Registrar and Finance Officer are located in the Camp Office.

TEMPORARY ACADEMIC BLOCK (TAB)

The Temporary Academic Block of the University is located in a newly constructed college building at Shahpur, District Kangra. Purpose-built, it is an eye-catching spacious three-storied building located amidst picturesque surroundings. Adequate to cater the present needs of classrooms, labs, faculty and students, it provides inspiring ambience for academics. Large open space surrounding the building is enough for sports facilities and games. All Academic Programmes of the University are being run from the Temporary Academic Block.

HALLS OF RESIDENCE

University does not have its permanent hostels. However, to help students coming from far off places, it has rented a building for boys' hostel located in Kangra and for girls' hostel at Sham Nagar, Dharamshala.

TEMPORARY BOYS HALL OF RESIDENCE

The building hired for Boys' Hostel accommodates about 110 students of the University in two/three-bedded rooms and has facilities for kitchen and Dining Hall. The Hostel Mess is run on cooperative basis by the residents under the supervision of the Warden/Provost. All students who wish to opt for hostel accommodation have to join the hostel mess and make arrangement for transport on their own. However, the

University has made available transport facility to the residents and other students coming from Kangra and nearby areas to Temporary Academic Block at Shahpur by paying a token bus coupon fee of Rs. 500 per month.

TEMPORARY GIRLS HALL OF RESIDENCE

The University has hired a building in Sham Nagar Dharamshala on rent for the Girls Hostel of the University. The facility accommodates about 60 girl students of the University. All students who wish to opt for hostel accommodation have to mandatorily join the hostel mess. The University has made available transport facility to the residents of the hostel to commute between the Hostel and the Temporary Academic Block. However,

to avail transport facility, students have to pay a token bus coupon fee of Rs. 500 per month.

ACCESSIBILITY & CONNECTIVITY

- The Camp Office, Dharamshala is 12 kms from Kangra Airport at Gaggal and 90 km from Pathankot.
- The Temporary Academic Block (TAB) of the Central University of Himachal Pradesh is at Shahpur, located nearly 30 km from Dharamshala on Mandi – Pathankot Highway. From TAB, Kangra Airport at Gaggal is at a distance of 16 km. and Pathankot Railway station is approximately 60 km. All buses from Pathankot scheduled for Dharamshala, Manali, Mandi, Baijnath and Shimla pass through TAB, Shahpur.

रैगिंग-निषेध संबंधी चेतावनी / WARNING REGARDING ANTI-RAGGING

विश्वविद्यालय में रैगिंग के प्रति शून्य सहनशीलता है। विश्वविद्यालय भारत के माननीय सर्वोच्च न्यायालय द्वारा दिए गए दिशानिर्देशों, जो यूजीसीद्वारा [यूजीसी अधिनियम, 1956की धारा 26 (1)के अंतर्गत] भारत के राजपत्र (भाग-III-खंड 4, 4जुलाई, 2009) में यथाअधिसूचित और प्रकाशित'विश्वविद्यालय अनुदान आयोग के उच्चतर शिक्षण संस्थानों में रैगिंग के खतरे को रोकने के अधिनियम,2009' का पूर्ण अनुपालन करता है।

There is zero tolerance for Ragging in this University. The University fully complies with the guidelines given by Hon'ble Supreme Court of India as notified by the UGC in "UGC Regulation on curbing the Menace of Ragging in Higher Educational Institutions, 2009" [Under Section 26(1) (g) of The UGC Act, 1956] published in the Gazette of India, (Part- III- Sec 4, July 4, 2009).

SCHOOLS/DEPARTMENTS/CENTRES OF STUDY

The University shall have the following Schools of Study/Departments/Centres & Colleges. Programmes of Study under the below mentioned Schools will be commenced in a phased manner over a period of time.

S. No.	Schools	Colleges/Departments in the School	Centres in the School
Schools/Colleges/Departments/Centres already approved under the Statutes & Ordinances			
1	School of Medical Sciences	<ul style="list-style-type: none"> ▪ College of Medical Sciences ▪ College of Dental Sciences 	
2	School of Health & Allied Sciences	<ul style="list-style-type: none"> ▪ Department of Nursing & Patient Care ▪ Department of Physiotherapy ▪ Department of Rehabilitation Sciences ▪ Department of Pharmaceutical Sciences ▪ Department of Pathology & Diagnostics ▪ Department of Nutrition & food Technology 	<ul style="list-style-type: none"> ▪ Centre for Criminology & Forensic Sciences ▪ Centre for Hospital & Healthcare Management
3	School of Engineering Sciences & Technology	<ul style="list-style-type: none"> ▪ Department of Civil & Environmental Engineering ▪ Department of Electrical Engineering & Energy Technology ▪ Department of Electronics & Communication Engineering ▪ Department of Mechanical & Aerospace Engineering ▪ Department of Chemical Engineering & Chemical Technology ▪ Department of Computer Engineering & Robotics ▪ Department of Pharmaceutical Technologies ▪ Department of Biotechnology & Genome 	<ul style="list-style-type: none"> ▪ Centre for Emerging Technologies & Innovation ▪ Centre for Earthquake Sciences & Engineering ▪ Centre for Skill Development & Community Polytechnic
4	School of Physical & Material Sciences	<ul style="list-style-type: none"> ▪ Department of Physics & Astronomical Science ▪ Department of Microwave & Electronics ▪ Department of Chemistry & Chemical Sciences ▪ Department of Nanoscience & Materials 	Centres of Study: <ul style="list-style-type: none"> ▪ Centre for Energy Study ▪ Centre for Analytical Techniques in Physical & Material Sciences ▪ Centre for Inter-disciplinary Research in Basic Sciences
5	School of Life Sciences	<ul style="list-style-type: none"> ▪ Department of Animal Sciences ▪ Department of Plant Sciences ▪ Department of Structural Biology ▪ Department of Microbiology ▪ Department of Biochemistry & Molecular Biology 	<ul style="list-style-type: none"> ▪ Centre for Computational Biology & Bioinformatics ▪ Centre for Human Biological Chemistry & Genetics ▪ Centre for Biomedical Engineering & Bio-Engineering
6	School of Earth & Environmental Sciences	<ul style="list-style-type: none"> ▪ Department of Geology ▪ Department of Geography ▪ Department of Environmental Sciences ▪ Department of Atmospheric & Planetary Sciences 	<ul style="list-style-type: none"> ▪ Centre for Climate Change, Oceanic Sciences & Glacier Study ▪ Centre for Hydrological Sciences & Hydro Energy ▪ Centre for Natural Resource Management & Human Ecology
7	School of Mathematics, Computers & Information Sciences	<ul style="list-style-type: none"> ▪ Department of Mathematics ▪ Department of Statistics & Actuarial Science ▪ Department of Computer Science & Informatics ▪ Department of Library & Information Science 	<ul style="list-style-type: none"> ▪ Centre for the Development of Multimedia Systems
8	School of Humanities & Languages	<ul style="list-style-type: none"> ▪ Department of Philosophy & Human Values ▪ Department of Comparative Religion & Civilisation ▪ Department of History, Culture & Archaeology ▪ Department of Linguistics & Etymology ▪ Department of English & European Languages ▪ Department of Hindi & Indian Languages ▪ Department of Sanskrit & Pali ▪ Department of Urdu 	<ul style="list-style-type: none"> ▪ Communication and Language Lab ▪ Centre for Comparative Literature & Translation Study ▪ Centre for Indo-Arab and Iranian Study ▪ Centre for Indo-Tibet and Chinese Study

S. No.	Schools	Colleges/Departments in the School	Centres in the School
9	School of Social Sciences	<ul style="list-style-type: none"> ▪ Department of Economics & Public Policy ▪ Department of Political Sciences & International Relations ▪ Department of Public Policy & Public Systems Management ▪ Department of Sociology & Social Anthropology ▪ Department of Social Work ▪ Department of Psychology & Behavioural Sciences ▪ Department of Family & Community Sciences 	<ul style="list-style-type: none"> ▪ Centre for Peace Study & Conflict Resolution ▪ Centre for South Asian Study ▪ Centre for Defence & Strategic Study ▪ Centre for the Study of Social Exclusion & Inclusive Policies ▪ Centre for Women Study ▪ Centre for Dalit & Minority Study ▪ Centre for Rural and Tribal Study
10	School of Education	<ul style="list-style-type: none"> ▪ Department of Educational Studies ▪ Department of Teachers Education ▪ Department of Special Education ▪ Department of Early Childhood Education 	<ul style="list-style-type: none"> ▪ Centre for Policy Research in Education ▪ Centre for Educational Technology & Innovation
11	School of Business & Management Study	<ul style="list-style-type: none"> ▪ Department of Accounting & Finance ▪ Department of HRM & Organisational Behaviour ▪ Department of Production & Operations Management ▪ Department of Marketing & Supply Chain Management ▪ Department of Management Science ▪ Department of Change Management & Organisation Development ▪ Department of International Trade, Business & Finance 	<ul style="list-style-type: none"> ▪ Centre for Corporate Social Responsibility, Ethics & Corporate Governance ▪ Centre for Entrepreneurship & Innovation
12	School of Tourism, Travel and Hospitality Management	<ul style="list-style-type: none"> ▪ Department of Tourism & Travel Management ▪ Department of Hotel & Hospitality Management ▪ Department of Event, Trade Fair & Exhibition Management 	<ul style="list-style-type: none"> ▪ Centre for the Promotion of Ecological, Adventure, Health & Cultural Tourism
13	School of Fine Arts & Art Education	<ul style="list-style-type: none"> ▪ Department of Performing Arts ▪ Department of Visual Arts ▪ Department of History of Art, Art Education & Art Appreciation 	<ul style="list-style-type: none"> ▪ Centre for Popularisation and Preservation of Pahari Language, Art, Culture & Handicrafts
14	School of Journalism, Mass Communication & New Media	<ul style="list-style-type: none"> ▪ Department of Journalism & Creative Writing ▪ Department of Mass Communication & Electronic Media ▪ Department of Photography, Films & Television ▪ Department of Advertising and Marketing Communication 	<ul style="list-style-type: none"> ▪ Centre for Media Study & Development Communication
Schools/Colleges/Departments/Centres yet to be approved as per the Statutes & Ordinances			
15	School of Planning , Architecture & Design	<ul style="list-style-type: none"> ▪ Department of Architecture ▪ Department of Landscape Architecture ▪ Department of Interior Design ▪ Department of Planning ▪ Department of Design 	<ul style="list-style-type: none"> ▪ Centre for Urban Renewal and Architectural Conservation
16	School of Law & Jurisprudence	<ul style="list-style-type: none"> ▪ Department of Constitutional Law ▪ Department of Administrative Law ▪ Department of Criminal Law ▪ Department of Corporate & Taxation Law ▪ Department of Labour Laws & Industrial Relations ▪ Department of International Law ▪ Department of Personal Law 	<ul style="list-style-type: none"> ▪ Centre for Comparative Law & Jurisprudence ▪ Centre for the Study of Cyber Law & Cyber Crimes ▪ Centre for the Study of WTO, WIPO & IPR related Laws ▪ Centre for Human Rights ▪ Centre for Environmental Law
17	School of Physical Education, Sports and Athletics	<ul style="list-style-type: none"> ▪ Department of Athletics ▪ Department of Indoor Games & Sports ▪ Department of Court Games & Sports ▪ Department of Field Games & Sports ▪ Department of Water Sports ▪ Department of Equestrian ▪ Department of Shooting & Archery ▪ Department of Adventure Sports & Trekking 	<ul style="list-style-type: none"> ▪ Centre for Sports Psychology ▪ Centre for Sports Medicine ▪ Centre for Sports Physiotherapy ▪ Centre for Yoga and other Fitness Regimen

SALIENT FEATURES OF THE UNIVERSITY

ADMISSION BASED ON ENTRANCE TEST

The University has introduced an All India level entrance examination for admission to PG Programmes of Study to assess the knowledge of subject of the student to pursue higher studies. Candidates seeking admission in the University shall be required to fill up only a single admission form indicating any two Programmes of Study.

INNOVATIVE PROGRAMMES & CURRICULAR FRAMEWORK

Guided by the reforms agenda in higher education and learning from the experiences of the best universities of the world, the University has introduced a number of innovations, as detailed below:

- ◆ **Semester-based Academic Calendar:** All academic programmes of the University – Undergraduate (UG), Post Graduate (PG) and MPhil/PhD i.e. Research Degrees (RD) – are based on semester system, designed at par with global practices in terms of effective number of teaching days and teaching-learning inputs.
- ◆ **Programmes based on Comprehensive Choice Based Credit System:** The University has introduced Comprehensive Choice Based Credit System (CCBCS) as per UGC norms largely on the lines of the best universities of the world.
- ◆ **Programmes of Study are defined in terms of Credits:** As opposed to papers/courses in the conventional system, a student shall be required to accumulate:
 - 140 UG Credits to earn a UG degree
 - 80 PG Credits to earn a PG degree
 - 60RD Credits to earn an MPhil degree
 - 120 RD Credits to earn a PhD degree
- ◆ **Students Mobility and Credit Transfer:** The University has designed a framework to facilitate credit accumulation by its students from other recognised universities of India and abroad. The university has developed a structured mechanism to work out the equivalence and accept the transfer of credits earned by its students from other universities as per the relevant ordinance of the Central University of Himachal Pradesh.
- ◆ **Students to accumulate required number of credits from across disciplines:** The interdisciplinary approach in the selection of courses is followed with most of the courses from the department and rest from other schools/departments of the university.
- ◆ **Innovative approach in designing Programmes of Study:** Departments would not design Programmes of Study as such. Instead, they would (a) Design and offer courses, based on the expertise and specialisation of their faculty members; (b) Specify pre-requisite and co-requisites for each course offered; (c) Guide the students to make their own basket of courses to accumulate the required credits to complete their Programme of Study. Thus, the focus is on ‘learner-centred approach’ (as opposed to the conventional ‘teacher-centred approach’) to accommodate learner’s needs and expectations to have wider choices in content, mode and pace of learning.
- ◆ **Computation of Credits based on a Holistic Approach to Learning:** In the Central University of Himachal Pradesh, one credit is defined as equivalent to the Total Student’s Effort (TSE) of 30 hours comprising:
 - 10 hours of lectures/organised classroom activity/contact hours;
 - 5 hours of laboratory work/practical/field work/tutorials/teacher-led activities;
 - 15 hours of other workload such as independent individual/ group work; obligatory/ optional work placement; literature survey/ library work; data collection/ field work; writing of papers/projects/dissertation/thesis; seminars, etc.Thus, the focus is on in-depth learning driven by intrinsic curiosity and mastery of the subject by balancing the taught content with independent self-directed learning.
- ◆ **All Programmes of Study to be Modular:** All Programmes of Study in the university are designed as modular with exit and lateral

entry option. While most students may want to complete their UG/PG/RD without any break, some may opt out of the Programme of Study mid-way due to their personal compelling reasons. The University, therefore, provides a structured framework for students to opt out mid-programme, whereby, depending on the extent of time spent on campus and credits accumulated by them, they will be awarded certificate/diploma/advanced diploma. For instance, if any student wants to quit study after two semesters, he/she can do so and would be awarded an appropriate Certificate/Diploma/Advanced Diploma and can re-join his/her study from this point within two years again. Thus:

◆ A Student Admitted to UG Programme may get:

- Certificate (if s/he opts out after 2 Semesters with 40 UG Credits);
- Diploma (if s/he opts out after 4 Semesters with 80 UG Credits);
- Bachelor's Degree (if stays on to complete full 6 semesters with 140 UG Credits).

◆ A Student Admitted to PG Programme may get:

- Advanced Diploma (if opts out after 2 semesters with 40 PG credits);
- Master Degree (if s/he stays on for full 4 semesters with 80 PG credits).

Those who thus opt out would be eligible to join laterally to complete and earn their degree, if they return to the university within the next two years.

◆ **All Programmes of Study to be Multi-disciplinary/Inter-disciplinary:**

While Departments of Study of the University are designed around basic disciplines (to enable faculty members to continue to focus on their specialised areas of research) each Programme of Study of the university is multi-disciplinary. The student is empowered to accumulate required number of credits from a wide variety of courses offered throughout the university (e.g. a student will be entitled to learn mathematics with music, physics with philosophy, and technical courses with humanities and so on). Accordingly:

◆ **At PG level, a student would be required to accumulate total 80 PG credits as under:**

Course Type		Credits required
Core courses	Compulsory	40
	Open	12
Elective courses	Specialisation	16
	Open	4
Foundation courses	Human making	4
	Skill development	4
Total credit requirements		80

◆ **At UG level, a student would be required to accumulate total 140 UG credits as under:**

Course Type		Credits required
Core courses	Compulsory	72
	Open	12
Elective courses	Specialisation	12
	Open	12
Foundation courses	Human making	6
	Skill development	6
Project work / Dissertation		20
Total credit requirements as per UGC guidelines		140

◆ **All Programmes to be based on Comprehensive Continuous Internal Assessment:**

Students in all Programmes of Study across disciplines and at all levels shall be assessed through Comprehensive Continuous Internal Assessment based on quiz, assignments, independent work, group work, mid-semester and end-semester examination. As a general principle, the Comprehensive Continuous Internal Assessment shall comprise the following components:

- Continuous Internal Assessment - 25%
- Mid Semester Examination - 25%
- End Semester Examination - 50%

◆ **All Programmes of Study to have Grading System:** The University shall have grading system based on Ten point scale of evaluation of the performances of students in terms of Marks, Grade points, Letter grade and Description of letter grades. The total performance of a student within a semester and continuous performance from the second semester onwards shall be indicated by (a) Semester Grade Point Average (SGPA); (b) Semester Percentage Marks (SPM); (c) Cumulative Grade Point Average (CGPA); and (d) Overall Percentage Marks (OPM), with CGPA & OPM being the real indicators of a student's performance.

◆ **INNOVATIVE RESEARCH DEGREE (MPhil/PhD) PROGRAMMES:**

The University has rigorous full time Research Degree (RD) Programmes that aim at honing the research skills, grooming teaching abilities, producing quality research publications and ensuring proactive participation in seminars and conferences. Accordingly, the award of RD requires a student to accumulate credits through course work, teaching assistantship, published work and dissertation/ thesis. The duration and credit requirements for PhD Programmes are as under:

PhD: For successful completion of the RD Programme leading to the award of the PhD degree, a student shall be required to accumulate a total of 120 RD Credits as under:

Course Work:	20 Credits
Dissertation:	60 Credits
Publications:	20 Credits
Teaching Assistantships:	20 Credits

ACADEMIC RESOURCES AT TEMPORARY ACADEMIC BLOCK (TAB)

Development of physical facilities and infrastructure for the permanent campus(es) of the university may take some time. In the interim, however, the University has commenced its academic activities from the Temporary Academic Block (TAB) located at Shahpur which has the following facilities:

FACILITIES	DETAILS
Classrooms/Lecture Theatre	<ul style="list-style-type: none"> ▪ Six state of the art Classrooms with the seating capacity of 50 each ▪ Six state of the art Lecture Theatres with the seating capacity of 90 each ▪ Seven smart classrooms/Lecture Theatres. ▪ Two Rooms for Group Discussion/Projects/Workshops with a capacity to accommodate 20 persons ▪ All classrooms are equipped with Multimedia projector/Internet connectivity
Seminar Room/Conference Hall	<ul style="list-style-type: none"> ▪ One Conference Hall with the seating capacity of 250 persons ▪ One well-equipped Seminar Hall with the seating capacity of 140 persons
Laboratories	<ul style="list-style-type: none"> ▪ Physics Laboratory ▪ Environmental Sciences Lab. ▪ Computational Biology's Computer Lab. ▪ IT Lab.
Office Space/Workstations/Counters:	<ul style="list-style-type: none"> ▪ Three chambers and offices for the senior officers of the University ▪ Central office comprising reception, cash counters, two cabins and six workstations ▪ Strong Room for examination and other confidential records
Faculty Rooms/Cubicles/Workstation	<ul style="list-style-type: none"> ▪ Seven fully furnished cabins for Deans/Heads/Professors ▪ Seven Workstations for Offices of the Schools/Departments ▪ Seventy Seven Workstations for Associate Professors/Assistant Professors ▪ Two workstations for COE's office staff
Library & Information Resource Centre (LIRC)	<ul style="list-style-type: none"> ▪ 11 Terminals for electronic access to catalogue and e-resources ▪ Reading Room with seating capacity of about 40 persons at a time ▪ Lockers for about 100 persons ▪ Chamber for the Librarian/Store Room/Photocopying facility ▪ Software of University Libraries (SOUL) from the INFLIBNET; ▪ E Resources through UGC-INFONET provided by INFLIBNET
Other Facilities	<ul style="list-style-type: none"> ▪ Facilities for purified drinking water ▪ Photocopying facility for students and staff on payment basis ▪ Mini gym/activity rooms/playground with skeleton facilities ▪ University has canteen facility
Internet Connectivity	<ul style="list-style-type: none"> ▪ 1 GBPS connectivity under the National Knowledge Network (NKN)/NME-ICT
LAN/Wi-Fi	<ul style="list-style-type: none"> ▪ Local Area Network (LAN) and Wi-Fi connectivity throughout the Temporary Academic Block
Research Scholars' Labs	<ul style="list-style-type: none"> ▪ The University has a fully computerised three research labs with the seating capacity of 114 scholars.
Computing Facility	<ul style="list-style-type: none"> ▪ The University has about 308 Desktops and Laptops / I-pads for IT Lab, Teachers and office of the Temporary Academic Block.
Communication Facility	<ul style="list-style-type: none"> ▪ Five landline telephone connections; ▪ 64 line EPBAX system has been installed.
Generator Facility	<ul style="list-style-type: none"> ▪ 320 kva generator facility providing round the clock power back-up
Video Conferencing Facility	<ul style="list-style-type: none"> ▪ NKN based video conferencing infrastructure
Canteen Facility	<ul style="list-style-type: none"> ▪ Canteen
Photocopy Facility	<ul style="list-style-type: none"> ▪ Outsourced photocopy facility
ATM Facility	<ul style="list-style-type: none"> ▪ Canara Bank's ATM facility at Temporary Academic Block, Shahpur

FACULTY AND INTELLECTUAL RESOURCES

The University is committed to provide quality teaching-learning environment on its campus from the start through recruitment of highly qualified full time faculty on regular basis, besides making suitable arrangement for immediate availability of faculty by appointment on deputation/contract/guest faculty/visiting faculty/invited lectures.

The UGC has approved 188 faculty positions comprising Professors, Associate Professors and Assistant Professors for the Programmes of Study proposed by the University. The details of faculty are given below:

SCHOOL/DEPARTMENT / CENTRE / CHAIR	DESIGNATION	FACULTY
1. School of Business & Management Studies (SBMS): Dean: Dr Sanjeev Gupta, PhD		
Accounting & Finance (A&F)	Associate Professor	Dr. Sanjeev Gupta, PhD
	Assistant Professor	Dr. Manpreet Arora, PhD
		Dr. Ashish Nag, PhD
		Dr. Mohinder Singh, PhD
Marketing & Supply Chain Management (M&SCM)	Associate Professor & Head	Dr. Bhagwan Singh, PhD
	Assistant Professor	Dr. Chaman Lal, PhD
		Dr. Sarvesh Kumar, PhD
Human Resource Management & Organisational Behaviour (HRM & OB)	Assistant Professor	Dr. Gitanjali Upadhaya, PhD
		Dr. Aditi Sharma, PhD
		Dr. Rita, PhD
Centre for Entrepreneurship & Innovation	Director	Prof. H. R. Sharma, PhD
2. School of Earth & Environmental Sciences (SEES): Dean: Dr Deepak Pant PhD		
Environmental Sciences (ES)	Professor	Prof. Ambrish Kumar Mahajan PhD
	Associate Professor & Head	Dr. Deepak Pant, PhD
	Associate Professor	Dr. Mushtaq Ahmad, PhD
	Assistant Professor	Dr. Ankit Tandon, PhD
		Dr. Anurag Linda, PhD
		Dr. Subhankar Chatterjee, PhD
		Dr. Dilbag Singh, PhD
3. School of Education (SoE): Dean: Dr. Manoj K. Saxena, PhD		
Educational Studies (ES)	Associate Professor & Head	Dr. Manoj K. Saxena, PhD
	Assistant Professor	Dr. Anu G.S., PhD
		Dr. Navneet Sharma, PhD
		Ms. Prakrati Bhargava, M.Phil, M.Ed
		Ms. Renu Bhandari, M.Ed
4. School of Humanities & Languages (SHL): Dean: Dr. Roshan Lal Sharma, PhD		
English & European Languages (EEL)	Associate Professor & Head	Dr. Roshan Lal Sharma, PhD
	Assistant Professor	Dr. Khem Raj Sharma, PhD
		Dr. Hem Raj Bansal, PhD
		Ms. Shaweta Nanda, MPhil, NET
		Dr. K.B.S. Krishna, PhD
Hindi & Indian Languages (HIL)	Associate Professor & Head	Dr. Roshan Lal Sharma, PhD
	Assistant Professor	Dr. Sayema Bano, PhD
		Dr. Chandra Kant Singh, PhD
Sanskrit and Pali (SP)	Head	Dr. Roshan Lal Sharma, PhD
5. School of Journalism, Mass Communication & New Media (SJMCNM): Dean: Dr. Pradeep Nair, PhD		
Journalism & Creative Writing (JCW)	Associate Professor & Head	Dr. Rabindranath M., PhD
	Assistant Professor	Dr. Archana Katoch, PhD
		Mr. Harikrishnan B., MCJ, NET
Mass Communication & Electronic Media (MCE)	Associate Professor & Head	Dr. Pradeep Nair, PhD
	Assistant Professor	Dr. Ram Pravesh Rai, PhD
		Mr. Kuldeep Singh, MJMC, NET
6. School of Life Sciences (SLS): Dean: Professor Ambrish Kumar Mahajan, PhD		
Centre for Computational Biology & Bioinformatics (CCBB)	Director	Prof. Ambrish Kumar Mahajan, PhD
	Assistant Professor	Dr. Polamarasetty Aparoy, PhD
		Dr. Vikram Singh, PhD
		Dr. Yusuf Akhter, PhD
		Dr. Shailender K. Verma, PhD

SCHOOL/DEPARTMENT / CENTRE	DESIGNATION	FACULTY
7. School of Mathematics, Computers & Information Science (SMCIS): Dean: Professor I. V. Malhan, PhD		
Mathematics (MTH)	Head	Prof. I. V. Malhan, PhD
	Assistant Professor	Dr. Sachin Srivastava, PhD
		Dr. Ravinder Singh, PhD
Computer Science & Informatics (CSI)	Head	Prof. I. V. Malhan, PhD
	Assistant Professor	Mr. Manoj Dhiman, MCA,NET
		Mr. Keshav Singh Rawat, MTech, NET
Library & Information Science (LSI)	Head	Prof. I. V. Malhan, PhD
	Assistant Professor	Dr. Dimple Patel, PhD
		Mr. Nimmala Karunakar, MLib, NET
8. School of Physical & Material Sciences (SPMS): Dean: Dr. O.S.K.S. Sastri, PhD		
Physics & Astronomical Science (PAS)	Associate Professor	Dr. O.S.K.S. Sastri, PhD
	Associate Professor & Head	Dr. B. C. Chauhan, PhD
	Assistant Professor	Dr. Ayan Chatterjee, PhD
		Dr. Surender Verma, PhD
		Dr. Dalip Singh Verma, PhD
		Dr. Jagdish Kumar, PhD
	Dr. Padamnabh Rai, PhD (UGC-Assistnat Professor)	
Chemistry & Chemical Sciences	Assistant Professor & In-charge	Dr. Subhankar Chatterjee, PhD
9. School of Social Sciences (SSS): Dean: Professor H. R. Sharma, PhD		
Social Work (SW)	Head	Professor H. R. Sharma, PhD
	Assistant Professor	Ms. Ambreen Jamali, MSW, NET
		Mr. Shabab Ahmad, MPhil, NET
Economics & Public Policy (EPP)	Professor & Head	Prof. H. R. Sharma, PhD
	Assistant Professor	Mr. Amit K. Basantaray, MPhil, NET
		Mr. Indervir Singh, MPhil, JRF
		Mr. Kamal Singh, MA, NET
Department of Sociology & Social Anthropology	Head	Professor H. R. Sharma, PhD
	Assistant Professor	Dr. Shreeya Bakshi, PhD
		Dr. Amit Kumar, PhD
10. School of Tourism, Travel & Hospitality Management (STTHM): Dean: Professor H. R. Sharma, PhD		
Tourism & Travel Management (TTM)	Head	Prof. H. R. Sharma, PhD
	Assistant Professor	Dr. Suman Sharma, PhD
		Mr. Arun Bhatia, MTA,NET
		Mr. Debasis Sahoo, MTA, NET
		Dr. S.Sundaraman, PhD
11. School of School of Fine Arts & Art Education: Dean: Professor H. R. Sharma, PhD		
Other Centres / Chairs		
❖ Deen Dayal Upadhyay Kaushal Kendra		
	Honorary Director	Dr. Manoj Saxena, PhD
❖ Dr. Ambedkar Chair		
Dr. Ambedkar Chair in History and Cultural Nationalism	Chair Professor	Dr. B. S. Gautam, PhD
❖ Chair in Tribal Studies		

Besides the full-time faculty, the University invites eminent and experienced academicians, professionals and practitioners to enrich teaching-learning process. This helps in providing quality inputs in teaching and research.

CO-CURRICULAR & EXTRA CURRICULAR ACTIVITIES

FIELD WORKS/COMMUNITY LAB

The University offers a unique programme called Community Lab to connect, interact and network with the community in Himachal Pradesh, particularly the region in which the University is located. The Programme is integrated in the academic curricula. The students are assigned specific number of households in the identified villages. They collect data, prepare report, identify intervention strategies and work with the community towards their socio-cultural, educational and economic development and in the process enrich themselves with real-life experiences.

EXTRA-CURRICULAR ACTIVITIES

Limited facilities for games, sports and other extracurricular facilities are being made available at the Temporary Academic Block (TAB). These include outdoor games such as Cricket, Football, Volleyball, Badminton, Carom, etc. Besides, a functional gym and facilities for selected indoor games are also being arranged.

CULTURAL ACTIVITIES

The University has a Cultural Society, a Debating Club, a Music Club, a Nature Club, a Film Club, a Theatre Group, and a Photography Club. It has very rich corporate life.

EDUCATIONAL TOURS/INDUSTRIAL VISITS

Different Schools of the University organise Educational Tours and Industrial Visit for the students. These are aimed at exposing the

students to the practical aspects of their discipline and sensitise them about the career opportunities and through that process help students chart out their career options and strategies.

SOCIAL AWARENESS CAMPAIGN

Students of the University proactively participate in a variety of activities leading to social awareness. These include poster competition, awareness programmes, sensitisation on social issues, organisations of debates and discussion, etc. This has led to the University forming Red Ribbon Club, which has now been upgraded and recognised as Youth Development Centre.

BLOOD DONATION CAMPAIGN

Blood donation camps have become a regular annual feature of the University. During a year 85 donors donated blood, thus creating history of single largest blood donation drive ever by an educational institution in the area.

TRAINING AND DEVELOPMENT PROGRAMMES

The University is working closely with the Government of Himachal Pradesh in capacity building training programmes for the teachers of government colleges in the State.

ENABLING SERVICES

FREESHIPS

In order to support the meritorious but needy students, the university grants Freeships to certain percentage of its students, limited to the percentage as may be prescribed by the University Grants Commission (UGC) in this regard from time to time. Award of Freeship includes exemption from the payment of all fees chargeable by the University on per credit basis, as notified in the prospectus, including exemption from professional development fees, if any. Such Freeships shall be granted by the Dean of the School concerned.

SCHOLARSHIP SCHEME FOR PROMOTION OF HINDI

A scholarship scheme for promotion of Hindi has been started during the FY 2015-16 for PG and RD students completing the prescribed examinations, Theses etc. in Hindi. The university may continue the scheme in the future subject to approval / grant of UGC.

TRANSPORT FACILITIES

The University has arranged transport facilities, on nominal charge, to ferry students of the University from Dharamshala and Kangra to the Temporary Academic Block at Shahpur. Students residing in the hostels of the University are also covered by the transport facility from hostel to Temporary Academic Block at Shahpur.

TRAINING AND PLACEMENT CELL

The main objective of the Training and Placement Cell is to develop strong relationship with companies all over India. The personnel of this Cell visit potential employers in various companies and apprise them of the ample talent available at the School of Business and Management Science at Central University of Himachal Pradesh. The Training and Placement Cell organizes various activities such as industrial visits, invited lectures from industrialists, mock interviews, industry-academia interface, pre-placement talks and workshops, etc. which give ample opportunities to the industry as well as the students to interact with each other. Training and Placement Cell facilitates Summer Placement Programme for MBA students. An eight-Week On-the-Job Training is an integral part of the curriculum of the Management Programme of the School. This training helps the students in

getting first hand exposure to corporate culture and developing their awareness, skills and values to improve their readiness to shoulder the managerial responsibilities of future organizations at national and global level. Similarly students of MSW, MBA (T&T) and M.Lib Sciences are required to do On-the-Job Training for eight-Weeks during July-August. Efforts are being made to provide employment to the students of university.

UNIVERSITY-INDUSTRY INTERFACE

The University strives to have a vibrant university-industry interface aimed at collaborative work in the arena of curricula development, shared teaching, research and praxis.

COUNSELLING & GUIDANCE

Students of the University are provided with expert counselling and guidance.

GRIEVANCE REDRESSAL CELL

University has created a cell to address the grievances of students in order to promote cohesive and healthy corporate living on the campus

PREVENTION OF SEXUAL HARASSMENT

To prevent any incidence of Sexual Harassment, a Committee in accordance with the relevant guidelines has been constituted.

ANTI-RAGGING COMMITTEE

The University is committed to prevent ragging. To prevent any incidence of ragging there is a duly constituted Committee in accordance with the relevant guidelines.

HEALTH CARE FACILITIES

The healthcare facilities are being provided through Government Medical College and Government Hospital to cater to elementary and emergency medical care of the students, faculty and staff. An ambulance has been stationed at TAB Campus for emergency situations.

SALIENT FEATURES OF UG / PG PROGRAMMES OF STUDY

COURSE / SCHOOLS / DEPARTMENT	SALIENT FEATURES
SCHOOL OF BUSINESS & MANAGEMENT STUDIES	
<ul style="list-style-type: none"> • MBA (Master of Business Administration) In the Department of: <ul style="list-style-type: none"> ❖ Accounting & Finance ❖ Marketing & Supply Chain Management ❖ Human Resource Management ❖ Centre for Entrepreneurship and Innovation 	<ul style="list-style-type: none"> ❖ Strong academia-industry interface ❖ Community laboratory for providing exposure to apply knowledge ❖ Summer placement of students in industry for eight weeks ❖ Project Work based on field study ❖ Development of entrepreneurship and strong leadership skills ❖ Freedom to students to create their own basket of courses including 40 percent courses from ❖ Wide range of professional and personal development activities such as Management Fests, ❖ Workshops, Field Visits, Industrial Visits, Quiz, Case Studies, Role-plays, etc. ❖ Research thrusts on corporate finance, web-based marketing, human resource issues, entrepreneurship, strategic marketing and international finance.
SCHOOL OF EARTH & ENVIRONMENTAL SCIENCES	
<ul style="list-style-type: none"> • MSc (Environmental Sciences) In the Department of Environmental Sciences 	<ul style="list-style-type: none"> ❖ Multidisciplinary applied science postgraduate course to understand the earth and its environment ❖ Skill development to conduct environmental impact assessment studies for various industrial and ❖ Developmental projects ❖ Training in analytical techniques for environmental monitoring and assessment ❖ Summer training and Project work on various scientific problems related to contemporary environmental issues in different industries or national laboratories ❖ Faculty with diverse research areas / interests ❖ Thrust areas of research include Seismic Studies, Waste Management and Detoxification, Geochemistry Palaeo climate Geomorphology, Environmental Microbiology, Atmospheric Dynamics, Glaciology and Remote Sensing and Environmental Biotechnology ❖ Environmental Science lab is well furnished with the modern research facilities and equipment such as PCR Machine, Gel Documentation System, Electrophoresis Apparatus, HPLC, Ion Chromatography system, Micro tremor system, Ground Penetration Radar, Engineering Seismograph and FTIR Spectrophotometer
SCHOOL OF EDUCATION	
<ul style="list-style-type: none"> • MA(Education) In the Department of Educational Studies 	<ul style="list-style-type: none"> ❖ Emphasis on culmination of theory and practice of education into one integral whole. ❖ Comprehensive in-depth knowledge of the universe of educational contents and intents. ❖ Emphasis upon the Constructivism and Constructionism paradigms of teaching, learning, assessment and research. ❖ Preparing future teachers with good command of learning blended with social responsibility and cultural responsiveness. ❖ Research thrusts of the School include Epistemology & Education, Mathematics & Science Education, Constructivism & Education, ICT in Education, Environmental Education, Tribal education, Educational Psychology & Science Education

SCHOOL OF HUMANITIES AND LANGUAGES

<ul style="list-style-type: none">• MA (English Language & Literature) In the Department of English and European Languages	<ul style="list-style-type: none">❖ Wide array of courses pertaining to English literature and language alongside various literatures of the world in translation, Comparative Literature, Translation Studies, Literature from the Margins, etc.❖ Emphasis on building strong theoretical base of PG students and RD scholars to meet contemporary challenges in literary Studies❖ Emphasis on encouraging free spirit of inquiry among students and equipping them with required skills❖ Encouraging innovativeness and novelty of ideas to sharpen critical and creative curve of students' thinking
<ul style="list-style-type: none">• MA (Hindi) In the Department of Hindi & Indian Languages	<ul style="list-style-type: none">❖ भारत के उच्च शैक्षणिक संस्थानों के समतुल्य पाठ्यक्रम और उसे सही दिशा में कार्यान्वित करने हेतु योग्य, अनुभवी और निष्ठावान शिक्षक❖ हिंदी साहित्य की समृद्ध परम्परा से छात्रों को अवगत कराते हुए समकालीन परिदृश्य में हिंदी को व्यापक बनाना❖ दलित विमर्श, स्त्री विमर्श, जनजातीय विमर्श से जोड़कर पाठ्यक्रम को समकालिक बनाना❖ पाठ्यक्रम के साथ-साथ सिनेमा, अनुवाद, पत्रकारिता, स्क्रिप्ट राइटिंग, आदि को बढ़ावा; राष्ट्रीय एवं अंतर्राष्ट्रीय स्तर की संगोष्ठी, कार्यशाला आदि का आयोजन❖ छात्रोन्मुखी शिक्षण पद्धति पर जोर; 'क्लास रूम' टीचिंग में संवादधर्मिता को बढ़ावा देना, साथ ही छात्रों की सृजनात्मकता को भी परिष्कृत करना❖ उच्चस्तरीय अनुसंधान एवं शोध की नई दिशाओं की ओर पहल
<ul style="list-style-type: none">• MA (Sanskrit) In the Department of Sanskrit and Pali• BA (Sanskrit Honours) In the Department of Sanskrit and Pali	<ul style="list-style-type: none">❖ भारतीय संस्कृति के आध्यात्मिक, सार्वकालिक और वैज्ञानिक आयामों से विद्यार्थियों का परिचय करवाना।❖ संस्कृत माध्यम के द्वारा प्राचीनतम-शास्त्रीय ज्ञान से लेकर आधुनिकतम साहित्यिक अवधारणाओं तक का उन्नत स्तरीय एवं विमर्शात्मक ज्ञान प्रदान करना।❖ संस्कृत साहित्य में विद्यमान वैज्ञानिक, साहित्यिक और सामाजिक विषयों पर उच्चस्तरीय अनुसन्धान के लिए विद्यार्थियों को पूर्ण रूप से तैयार करना।❖ संकाय के अन्य विभागों एवं संस्कृत की विभिन्न संस्थाओं के साथ अन्तर-संस्थात्मक स्वस्थ संवाद की परम्परा को विकसित करना।❖ पूर्ण वैज्ञानिक भाषा संस्कृत की आधुनिककाल में उपादेयता और संस्कृत में रोजगार के विविध अवसरों से अवगत करवाना।❖ प्राचीन एवं आधुनिक विमर्शों के परिप्रेक्ष्य में अध्यापक और छात्र के बीच मुक्त, सतत और व्यावहारिक संवाद स्थापित कर समकालीन चुनौतियों का सामना करने की सार्थक क्षमता प्रदान करना।

SCHOOL OF JOURNALISM, MASS COMMUNICATION & NEW MEDIA

<ul style="list-style-type: none">• MA (Mass Communication & Electronic Media) In the Department of Mass Communication & Electronic Media	<ul style="list-style-type: none">❖ Focus on diverse vantage points ranging from new communication policy, political and international communication, media appreciation and web technologies❖ Comprehensive curriculum ranges from conventional electronic media- television and radio to mobile and web communication technologies❖ Opportunity for the students to work in the communication and cultural industries and to develop alternatives in non-profit and public media education and production❖ Exposure of students to different media production techniques that allow them to work in the field of high definition broadcasting and digital media❖ Regular industry and visits to encourage the students to have more interaction with the industry❖ Research Thrust on New Media Research and New Media Technologies❖ Up to date curricula extensively covering various areas of journalism and creative writing.
<ul style="list-style-type: none">• MA (Journalism & Creative Writing) In the Department of Journalism & Creative Writing	<p>Faculty members with teaching and industry experience in journalism and media research to corporate communications, advertising and media planning.</p> <ul style="list-style-type: none">❖ Professional training and academic exposure to students through workshops, educational ours, guest lectures by working journalists and academicians.❖ Use of modern pedagogical tools and techniques like case-studies, mock-interviews, presentations, hands-on training sessions.❖ Research focus on Advertising & Public Relations and Development Commutation

SCHOOL OF LIFE SCIENCES	
<ul style="list-style-type: none"> • MSc (Computational Biology & Bio-Informatics) Centre for Computational Biology & Bio-Informatics 	<ul style="list-style-type: none"> ❖ Expertise on data warehousing, data mining, and analysis in the area of Life Sciences ❖ Developing value added derived databases and algorithms for knowledge discovery with special emphasis on infectious diseases, neurodegenerative diseases, agricultural and plant bioinformatics, identification of disease causing genes and drug design ❖ Emphasis on understanding life and its processes from molecules to the levels of the system and pondering upon the Bio-complexity using sequence-based and structure based bioinformatics approaches in the context of genomics, proteomics and metabolomics ❖ Providing platform for the integrative study of complex interactions in biological processes to understand basic design principles that unite living systems ❖ Developing highly skilled human resource that is capable of doing inter-disciplinary research in the areas of synthetic and systems biology ❖ Research thrust is on Structural Bioinformatics, Computational Systems Biology, Molecular Modelling and Drug Designing
SCHOOL OF MATHEMATICS, COMPUTER AND INFORMATION SCIENCES	
<ul style="list-style-type: none"> • MSc (Mathematics) In the Department of Mathematics 	<ul style="list-style-type: none"> ❖ Teaching and research programs are designed to encourage students to think logically and abstractly ❖ Emphasis on application of mathematical theories and knowledge to seek solutions to Industrial problems ❖ Thrust of research is on Differential Geometry, Fluid Dynamics
<ul style="list-style-type: none"> • MSc (IT) In the Department of Computer Science and Informatics 	<ul style="list-style-type: none"> ❖ Well-equipped Labs with latest hardware and software catering to the computational needs ❖ Industrial visits to expose students to on-going developments ❖ Undertaking mini projects and organising training workshops.
<ul style="list-style-type: none"> • MSc (Library Science) In the Department of Library & Information Science 	<ul style="list-style-type: none"> ❖ Imparting knowledge and developing skills to help students avail themselves of enormous career Science opportunities in diverse information work settings ❖ Courses designed to cater to the manpower needs of hybrid libraries and information centres ❖ Balance of theoretical foundations, praxis - based and project based learning in curricula ❖ Internship program in modern libraries and information centres to hone practical skills ❖ Using latest knowledge organization tools such as DDC 23rd (2011) & UDC latest edition in teaching- learning process ❖ Research thrusts are on Knowledge Management and Digital Libraries
SCHOOL OF PHYSICAL AND MATERIAL SCIENCES	
<ul style="list-style-type: none"> • MSc (Physics) In the Department of Physics and Astronomical Sciences • B.Sc. (Physics Honours) In the Department of Physics and Astronomical Sciences 	<ul style="list-style-type: none"> ❖ Offering specialisation courses in various branches of Theoretical Physics such as Condensed Matter Physics, Nuclear and High Energy Physics, Astrophysics, and Computational Physics ❖ Adequately equipped computational labs with individual PCs to enhance computational skills in C, Scilab and FORTRAN programming to perform simulations in physics ❖ Coupling of Real Time Experiments with Modelling, Simulations or Virtual Experiments. ❖ Specialisation Offered in Theoretical Physics after earning at least 16 credits including Project Work. ❖ Thrusts areas of research include Computational Materials Science, Physics Education Research, ❖ Neutrino Physics and Astrophysics, Cosmology & General Relativity, and Theoretical Nuclear Physics

SCHOOL OF SOCIAL SCIENCES	
<ul style="list-style-type: none"> • MA (Economics) In the Department of Economics and Public Policy 	<ul style="list-style-type: none"> ❖ Nurturing students to become competent economists/researchers having comprehensive understanding of theoretical and empirical issues both in traditional and emerging branches in economics ❖ Offering a mix of courses on economic theory, applied economics, quantitative techniques and field work ❖ Teaching application of quantitative techniques to solve empirical problems ❖ Developing basic skills in writing research reports and policy documents to successfully compete in the job market both nationally and internationally ❖ Research focus is on Agrarian Studies, Wages and Employment
<ul style="list-style-type: none"> • Master of Social Work (MSW) In the Department of Social Work 	<ul style="list-style-type: none"> ❖ Preparing students to integrate professional knowledge, values, and skills from a generalist social work perspective ❖ Providing an educational experience to understand, assess the context of professional practice to apply strategies of change ❖ Honing students' critical thinking skills thereby using personal and institutional resources, theoretical frameworks, and research to meet the needs of client systems of various types and sizes ❖ Research thrust is on Gender & Weaker Sections, Rural & Tribal Studies, Social Development and Social Capital
<ul style="list-style-type: none"> • MA (Sociology) In the Department of Sociology and Social Anthropology 	<ul style="list-style-type: none"> ❖ Preparing students to integrate professional knowledge, values, and skills from a generalist sociological perspective ❖ Providing an educational experience to understand, assess the context of contemporary society to analyze tradition and modernity ❖ Honing students' critical thinking skills thereby using personal and institutional resources, theoretical frameworks, and research to meet the needs of client systems of various types and sizes ❖ Research thrust is on Globalization, Culture, tradition and modernization, Gender & Weaker Sections, Urban, Rural & Tribal Studies, Social Development and Social Capital
<ul style="list-style-type: none"> • Dr B.R. Ambedkar Chair 	<ul style="list-style-type: none"> ❖ To study the ideals, philosophy and work of Dr B.R. Ambedkar and their relevance in today's context, particularly in the field of History and Cultural Nationalism ❖ To sensitize the society towards the social evils like inequality, untouchability, social discrimination etc. and to work for the upliftment of weaker sections of the society
<ul style="list-style-type: none"> • Chair in Tribal Studies 	<ul style="list-style-type: none"> ❖ To offer a forum for presenting original research articles written on the tribal cultures and expressive behaviour ❖ To present and share research on tribal languages of India many of which are threatened and are on the verge of extinction.
SCHOOL OF TOURISM, TRAVEL AND HOSPITALITY MANAGEMENT	
<ul style="list-style-type: none"> • MBA(Specialisation in Tourism and Travel) In the Department of Tourism & Travel Management 	<ul style="list-style-type: none"> ❖ Blend of tourism, travel and hospitality courses with focus on developing managerial skills ❖ Emphasis on developing professional ethics compatible with cultural ethos ❖ Frequent industrial visits and summer placement of 8 weeks duration in tourism industry to develop practical skills. ❖ Emphasis on leadership and entrepreneurship development in potential areas for adventure tourism ❖ Research thrust is on Destination Branding & Marketing and Terrorism & Tourism
DEEN DYAL UPDHYAYA KAUSHAL KENDRA	
<ul style="list-style-type: none"> • B.Voc. (Mass Communication) • B.Voc. (Financial and Marketing Services) 	<ul style="list-style-type: none"> ❖ To provide judicious mix of skills relating to a profession and appropriate content of General Education. ❖ To ensure that the students have adequate knowledge and skills, so that they are work ready at each exit point of the programme. ❖ To provide flexibility to the students by means of pre-defined entry and multiple exit points. ❖ To integrate NSQF with the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce. ❖ To provide vertical mobility to students coming out of 10+2 with vocational subjects.

UG / PG PROGRAMMES OF STUDY OFFERED IN 2017-18

Commencing from the Academic Session 2010-11, different Schools of the University presently offer the following Programmes of Study:

PROGRAMMES OF STUDY	PROGRAMME DURATION	CREDITS REQUIRED	IN TAKE
School of Business & Management Sciences			
<u>Department of Accounting & Finance</u> <u>Department of HRM & Organisational Behaviour</u> <u>Department of Marketing & Supply Chain Management</u> <u>Centre for Entrepreneurship & Innovation</u> <ul style="list-style-type: none"> ▪ MBA Functional Specialisations – Marketing, Finance, HRM, Operations Management Sectoral Specialisations – Entrepreneurship Development, Financial Markets, Insurance, International Business, IT 	4 Semesters	80 PG Credits	90
School of Physical & Material Sciences			
<u>Department of Physics & Astronomical Sciences</u> <ul style="list-style-type: none"> ▪ BSc (Physics Honours) ▪ MSc (Physics) 	6 Semesters 4 Semesters	140 UG Credits 80 PG Credits	30 30
School of Life Sciences			
<u>Centre for Computational Biology & Bioinformatics</u> <ul style="list-style-type: none"> ▪ MSc (Computational Biology and Bioinformatics) 	4 Semesters	80 PG Credits	30
School of Earth & Environmental Sciences			
<u>Department of Environmental Sciences</u> <ul style="list-style-type: none"> ▪ MSc (Environmental Sciences) 	4 Semesters	80 PG Credits	30
School of Mathematics, Computer & Information Sciences			
<u>Department of Mathematics</u> <ul style="list-style-type: none"> ▪ MSc (Mathematics) 	4 Semesters	80 PG Credits	30
<u>Department of Computer Science & Informatics</u> <ul style="list-style-type: none"> ▪ MSc (Information Technology) 	4 Semesters	80 PG Credits	30
<u>Department of Library Science</u> <ul style="list-style-type: none"> ▪ M Lib Sc (Integrated Dual-Degree Programme)* 	4 Semesters	80 PG Credits	30
<p><i>*A student admitted to M Lib Sc (Integrated Dual-Degree Programme), if opts out after successfully completing two semesters with 40 PG Credits, shall be awarded the degree of B. Lib. Sc. Those who thus opt out shall be eligible for lateral entry if they return to the University within the next two years to complete remaining two semesters and get the desired degree of M. Lib. Sc.</i></p>			
School of Humanities & Languages			
<u>Department of English & European Languages</u> <ul style="list-style-type: none"> ▪ MA (English Language and Literature) 	4 Semesters	80 PG Credits	30
<u>Department of Sanskrit and Pali</u> <ul style="list-style-type: none"> ▪ BA (Sanskrit Honours) ▪ MA (Sanskrit) 	6 Semesters 4 Semesters	140 UG Credits 80 PG Credits	30 30

<u>Department of Hindi & Indian Languages</u> ▪ MA (Hindi)	4 Semesters 6 Semesters	80 PG Credits 120 RD Credits	30 10
▪ Certificate in Gojari Language	6 months	20 Credits	30
School of Social Sciences			
<u>Department of Economics & Public Policy</u> ▪ MA (Economics)	4 Semesters	80 PG Credits	30
<u>Department of Social Work</u> ▪ Master of Social Work (MSW)	4 Semesters	80 PG Credits	30
<u>Department of Sociology and Social Anthropology</u> ▪ MA (Sociology)	4 Semesters	80 PG Credits	30
▪ Certificate in Gujjar History and Culture	6 months	20 Credits	30
School of Education			
<u>Department of Educational Studies</u> ▪ MA (Education)	4 Semesters	80 PG Credits	30
School of Journalism, Mass Communication & New Media			
<u>Department of Mass Communication & Electronic Media</u> ▪ MA (New Media Communication)	4 Semesters	80 PG Credits	30
<u>Department of Journalism & Creative Writing</u> ▪ MA (Journalism & Creative Writing)	4 Semesters	80 PG Credits	30
<u>Department of Tourism & Travel Management</u> ▪ MA (Tourism & Travel Management)	4 Semesters	80 PG Credits	30
Deen Dyal Upadhyaya Kaushal Kendra			
▪ B.Voc. (Mass communication)	6 Semesters	180 Credits	50
▪ B.Voc. (Financial and Marketing Services)	6 Semesters	180 Credits	50

Note:

1. The University reserves the right to defer a Programme of Study depending upon the availability of adequate number of suitably qualified students, intellectual resources and other facilities.
2. The intake capacity for different programmes of Study is only indicative and the university may reduce the intake depending on the availability of suitably qualified students, intellectual resources, research supervisor(s) and other academic infrastructure.

Further details on the curricula and courses for various Programmes of Study shall be furnished in the Students' Handbook, to be issued after admission is completed. The Handbook shall, inter alia, provide Course Catalogue, Course Outline, and Rules relating to Examination, Attendance, Residence and Good Conduct in and outside the Campus, etc.

MINIMUM ELIGIBILITY CONDITIONS FOR ADMISSION IN PG PROGRAMMES OF STUDY

The minimum eligibility requirements and selection criteria for admission in the PG Programmes of Study are as under:

PROGRAMME OF STUDY	MINIMUM ELIGIBILITY REQUIREMENT
<ul style="list-style-type: none"> • MSc (Physics) • MSc (Mathematics) 	A minimum of 50% marks or an equivalent grade in Bachelors/UG degree in non-medical /Engineering/Technology stream from a recognised University or an equivalent examination.
<ul style="list-style-type: none"> • MSc (Computational Biology & Bio-Informatics) 	A minimum of 50% marks or an equivalent grade in Bachelors/UG degree in any science stream from a recognised University or an equivalent examination.
<ul style="list-style-type: none"> • MSc (IT) 	A minimum of 50% marks or an equivalent grade in Bachelors/UG degree in science/ engineering/ technology stream from a recognised University or an equivalent examination.
<ul style="list-style-type: none"> • MSc (Environmental Science) 	A minimum of 50% marks or an equivalent grade in Bachelors/UG degree in science stream from a recognised University or an equivalent examination.
<ul style="list-style-type: none"> • MBA • MA(Economics) • MSW • MA (Sociology) • MA (Language and Literature) • MBA(Specialisation in Travel and Tourism) • MA(Education) • MA(New Media Communication) • MA(Journalism & Creative Writing) • M Lib Sc 	A minimum of 50% marks or an equivalent grade in Bachelors/UG degree from a recognised University or an equivalent examination.
<ul style="list-style-type: none"> • MA (Hindi) 	A minimum of 50% marks or an equivalent grade in Bachelors/UG degree with Hindi from a recognised University or an equivalent examination.
<ul style="list-style-type: none"> • MA (Sanskrit) 	A minimum of 50% marks or an equivalent grade in Bachelors/UG degree with Sanskrit or Shastri examination from a recognised University or an equivalent examination. <i>The candidates who have passed Shastri examination shall be given 10% weightage in their composite score limited to the prescribed maximum marks.</i>
<ul style="list-style-type: none"> • BSc (Physics Honours) 	A minimum of 50% Marks or an equivalent grade in 10+2 (any science stream) examination of a recognized school board or an equivalent examination by authorized board of state/ national level.
<ul style="list-style-type: none"> • BA (Sanskrit Honours) 	A minimum of 50% Marks or an equivalent grade in 10+2 or Prak-Shastri Part- II or Visharad examination of a recognized school board or an equivalent examination by authorized board of state/ national level. <i>The candidates who have passed Prak Shastri Part II or Visharad examination shall be given 10% weightage in their composite score limited to the prescribed maximum marks.</i>
<ul style="list-style-type: none"> • B.Voc. (Mass communication) • B.Voc. (Financial and Marketing Services) 	The minimum eligibility condition for admission to B.Voc. programme shall be 40% in 10+2 or equivalent in any stream.
<ul style="list-style-type: none"> • Certificate in Gojari Language • Certificate in Gujjar History and Culture 	A minimum of 50% Marks or an equivalent grade in 10+2 examination of a recognized school board or an equivalent examination by authorized board of state/ national level.

Relaxation in Minimum Qualifying Marks: Relaxation in minimum qualifying marks up to a maximum of 5% shall be made in case of candidates belonging to the SC, ST, OBC (Non-creamy layer) and Persons with Disabilities Categories.

IMPORTANT: Applications are INVITED from Eligible Candidates for ADMISSION to ALL of the Above Programmes.

SELECTION CRITERIA FOR ADMISSIONS

UG Programmes

All applicants seeking admission to UG Programmes of Study shall be admitted on the basis of merit in 10+2 or equivalent examination. The candidates seeking admission in BA (Sanskrit Honours) having passed Prak Shastri Part II or Visharad shall be given 10% weightage of their composite score limited to the prescribed maximum marks.

PG Programmes

1. All applicants seeking admission to a PG Programme of Study shall be required to appear in entrance examination of their respective subjects.
2. Admission to various PG Programmes of Study shall be made on merit of the composite score to be determined on the basis of score obtained in entrance examination and marks obtained in Matric, 10+2 and UG examination as given below:

S. No.	Weightage of Different Components of the Composite Score	
1.	Components	Weightage
2.	Score obtained in entrance examination	50%
3.	Percentage of marks in 10th	10%
4.	Percentage of marks in 10+2	10%
5.	Percentage of marks in UG degree	30%
	Total	100%

Note: The candidates seeking admission in PG Sanskrit having passed Shastri examination shall be given 10% weightage in their composite score limited to the prescribed maximum marks.

APPLICANTS WHO ARE NOT ELIGIBLE FOR ADMISSION

The following shall **NOT** be Eligible for admission in the University:

- (a) A person who has been suspended, rusticated, debarred, expelled or removed from the role of the University by a competent authority of the University.
- (b) A person who at any time, was admitted to a PhD programme in this University or has completed PhD degree either from this University or any other University shall not be eligible to apply for the same or any other UG/PG/MPhil/PhD programme of this University.
- (c) A person who at any time was admitted to an MPhil Programme in this University or has completed an MPhil Degree either from this University or from any other University shall not be eligible to apply for the same or any other UG/PG/MPhil Programme of this University.
- (d) A person who at any time was admitted to a PG Programme in this University or has completed PG Degree either from this University or from any other University shall not be eligible to apply for the same or any other UG/PG Programme of this University.
- (e) A person who at any time was admitted to an UG Programme in this University or has completed UG Degree either from this University or from any other University shall not be eligible to apply for the same or any other UG Programme of this University.
- (f) A person seeking admission to pursue second UG/PG programmes shall be permitted if the first UG/PG is the requirement / preference for admission to second degree.
- (g) Provided the permission to pursue second PhD/MPhil/UG/PG programme may be granted by the Vice Chancellor on genuine reasons.

PROCEDURE OF APPLICATION FOR ADMISSION

- All admissions shall be based on the **ONLINE applications ONLY** received in response to the admission notification and issue of this prospectus. The prospectus can be downloaded free of cost from the university website (www.cuhimachal.ac.in). Hard copy of the prospectus / application form shall NOT be made available by the University.
 - **Online Application:** A candidate can apply online by clicking on the link given at the University website (www.cuhimachal.ac.in). Application fee shall be payable as per the instructions given on the Website of the University.
 - The application fee for admission to Certificate/UG/PG/RD programmes for different categories of applicants shall be as under:
 - a) General Category: Rs 400/- (Rs 200/- for B.Voc.)
 - b) OBC Category: Rs 300/- (Rs 150/- for B.Voc.)
 - c) SC/ST/PH Categories: Rs 100/- (Rs 50/- for B.Voc.)
- 2) **Last Date for the Submission of Application:** ONLINE application form for admission in the PG programme must be duly filled in on or before the last date i.e. **28th May 2017 (Sunday) for PG Programmes** and **29th May 2017 (Monday) for UG Programmes.**
 - 3) A candidate can apply on a single application form for admission to **two PG Programmes of Study.**

RESERVATION OF SEATS IN ADMISSION

1. The University shall follow reservation in admission as mandated under the Central Educational Institutions (Reservation of Seats) Act 2006, as amended from time to time.
2. The University shall also follow reservation in admission in all Programmes of Study in accordance with the Persons with Disabilities (Equal Opportunities, Protection of Rights and Full Participation) Act, 1995 and The Rights of Persons with Disabilities Act, 2016.
3. a) Accordingly, the University shall reserve seats in all Programmes of Study for admission as under for the students belonging to:
 - Increase in intake capacity up to 5% course-wise.
 - Reservation of at least one seat in merit quota in technical/professional institutions.
 - Waiving off domicile requirements.
 - vi) Two seats are available under supernumerary quota for admitting students coming from the state of Jammu & Kashmir

i)	Scheduled Caste (SC) Category	15.0%
ii)	Scheduled Tribe (ST) Category	7.5%
iii)	Other Backward Classes (OBC) Category	27.0%
iv)	Persons with Disabilities (PWD)	5.0%

4. Candidates seeking admission under the reserved categories shall be required to fulfil the prescribed conditions of admission to the Course.
 5. If a candidate in the reserved category qualifies for admission in the general category s/he shall be treated as a general category candidate. If sufficient number of candidates are not available to fill up the seats reserved for Scheduled Tribes, these may be filled up by suitable candidates from Scheduled Castes and vice-versa.
 6. If a candidate in the reserved category qualifies for admission in the general category s/he shall be treated as a general category candidate. If sufficient number of candidates are not available to fill up the seats reserved for Scheduled Tribes, these may be filled up by suitable candidates from Scheduled Castes and vice-versa.
- Persons suffering from not less than forty per cent (40%) of any disability as certified by a competent medical authority would be considered for admission under PWD category.
 - There will be concession facilities of fee waiver, free accommodation, food and transport for students with disabilities.
 - v) The Kashmiri migrant students shall have the following concessions in admission to various programmes during academic year **2017-18**:
 - Relaxation in cut off percentage upto 10% subject to minimum eligibility requirement.

ENTRANCE EXAMINATION CENTRES

S.No.	Test City	Code	S.No.	Test City	Code
1.	Dharamshala (HP)	01	10.	Bhubaneswar (Odisha)	10
2.	Mandi (HP)	02	11.	Siliguri (West Bengal)	11
3.	Shimla (HP)	03	12.	Guwahati (Assam)	12
4.	Shahpur (HP)	04	13.	Imphal (Manipur)	13
5.	Palampur	05	14.	Thiruvananthapuram (Kerala)	14
6.	Hamirpur	06	15.	Patna (Bihar)	15
7.	Solan (HP)	07	16.	Bhopal (M.P.)	16
8.	Chandigarh	08	17.	Jaipur (Rajasthan)	17
9.	Allahabad (UP)	09	18.	Delhi	18

The Central University of Himachal Pradesh will have the right to cancel / change the Centres for holding Entrance examination depending upon the number of applicants choosing/opting for a particular centre.

ADMISSION OF FOREIGN NATIONALS/ NRIs/ PIOs - SUPERNUMERARY SEATS

- i. In all the courses 15% seats may be filled as Supernumerary Seats meant for Foreign Nationals (FN), Non-Resident Indians (NRI) and Persons of Indian Origin (PIO) category. Out of the above 15% Supernumerary Seats, one-third shall be earmarked for the children of Indian workers in the Gulf.
- ii. Candidates belonging to the FN/NRI/PIO category shall not be required to appear for the entrance examination of the University. However, they will have to fulfil minimum eligibility conditions for admission. Additionally, they may be required to qualify internationally accepted aptitude tests like SAT/GMAT/GRE/TOEFL as prescribed for admission in different Programme of Study as specified in the Prospectus of the University.
- iii. Admission to these categories of students shall be granted on merit determined either by their past academic records or by internationally conducted aptitude tests for admission in higher education or a combination thereof with due regards to need for providing opportunities to the nationals belonging to different countries.
- iv. Candidates seeking admission under the above quota of Supernumerary Seats shall be required to submit their application on a prescribed form, along with the certified copies of all the necessary documents, as per the procedure specified in the Prospectus, to the office of the Foreign Students Advisor (FSA) in advance throughout the year but not later than 30th April for the current academic session.
- v. Application for admission should be submitted to the Dean of the School/ Head of the Department concerned along with the attested / certified copies of all the necessary documents.
- vi. Candidates seeking admission under FN/NRI/PIO category shall be required to pay fees and other charges as applicable to their category and as specified in the ordinances relating to fee structure and as notified in the Prospectus.
- vii. Candidates admitted under the FN/PIO category shall be required to undergo a medical test (including test for HIV/ AIDS) within a week from the date of admission.
- viii. Candidates admitted under the FN/PIO category shall be required to produce STUDENT VISA within one month of the date of completion of the admission but prior to the commencement of the academic session and submit a copy of the same in the Office of the Foreign Students Advisor, failing which their admission shall stand cancelled.

COMPLETION OF ADMISSION FORMALITIES

- i) No candidate shall be entitled to claim admission as a matter of right and that the University reserves the right to refuse admission in any individual case without assigning any reason.
- ii) A candidate shall be considered as admitted to a Programme of Study and be eligible to avail the privileges of a student of the University only after he/she has deposited the prescribed fees, as per the Prospectus. If a candidate fails to deposit the admission fee by the prescribed date, he/she will automatically forfeit his/her right of admission.
- iii) List of selected candidates shall be displayed on the University website (www.cuhimachal.ac.in) and on the Notice Boards of the Controller of Examinations and School/Department concerned. **No intimation to the selected candidates will be sent by post.**
- iv) The candidates shall be required to get their admission completed by the dates given in the Schedule.
- v) The selected candidates shall be required to submit the photocopies and produce the following documents in original for verification at the time of registration:
 - a. Certificates, Diplomas, Degrees, Mark-Sheets of all educational qualifications
 - b. In case of the working students, a No Objection Certificate (NOC) from the employer clearly mentioning that the employer has no objection to the candidate's pursuing higher education in the Central University of Himachal Pradesh on full time basis
 - c. In case of gap of more than two years between the qualifying examination and the year of seeking admission in the university, the candidate shall be required to submit an affidavit indicating the reasons for such gaps and the activities in which he/she was engaged during the intervening period.
- d. SC/ST/OBC/PWD Certificate whichever is applicable.
- e. Kashmiri migrant certificate if applicable.
- f. Proof of Permanent residence
- vi) Admission to a Programme of Study will be granted only to those candidates whose results of the qualifying examinations are complete in all respects.
- vii) Admission of candidates to a Programme of Study shall be subject to the clearance from the Proctor of the University.
- viii) Admission of candidates seeking admission after a gap of three or more academic years of their taking Certificate/ Diploma/ Degree/ Post-Graduate Degree from this University or any other University/Educational Institution/Board, shall be subject to the clearance by the Admission Review Committee consisting of the Dean, Students' Welfare (DSW), the Dean of the School concerned, the HOD concerned, and the Proctor.
- ix) At the time of admission, every student shall be required to sign a declaration to the effect that s/he submits herself/himself to the disciplinary jurisdiction of the Vice Chancellor and other authorities of the University.
- x) All the students admitted to Programmes of Study shall be required to submit Transfer Certificate/Migration Certificate in original within 30 days from the date of admission, failing which their admission in the university may be cancelled.
- xi) Admission of the candidate will only be final after the verification of his/her testimonials at the time of registration.

GENERAL RULES RELATING TO ADMISSION

- i) The University shall be open to the persons of either sex and of whatever caste, creed, race or class, and it shall not be lawful for the University to adopt or impose on any person, any test whatsoever of religious belief or profession in order to entitle him to be admitted as a student in the University or to graduate thereat or to enjoy or exercise any privilege thereof;
- ii) The University shall maintain an all-India character and high standards of teaching and research and shall admit students strictly on merit as determined through an All India level entrance test conducted by the University either individually or with other universities;
- iii) No candidate, pursuing a full-time programme of study in the University shall be allowed to take up a job without prior and explicit permission of the University.
 - i. Provided that those already employed at the time of admission shall submit, within thirty days, in original, a certificate from their employer to the effect that the employer has granted him/her leave for the whole duration of the Programme of Study.
 - ii. Provided further that the above shall not prohibit, exclude or exempt a student from undergoing obligatory or optional work placement, if completion of the Programme of Study in which he/she has taken admission so requires.
- iv) No student pursuing a Programme of Study in the University shall be permitted to take any other regular examination leading to another degree of this University or any other education institution. However, a student would be eligible to take courses, subject to the prior permission of the Dean of the School concerned, under Career Oriented Proficiency/Certificate/Diploma Programmes simultaneously either from CUHP or any other university/ educational institution/ board, etc.
- v) Provided further that the University may allow a student to pursue any programme under MOOCs from the university (CUHP) or any other institution in India / abroad.
- vi) Provided further that a student may also be permitted to take additional courses, over and above the minimum prescribed for a semester. In such a case, the following conditions shall apply:
 - a. S/he shall be required to pay fees for the additional courses registered
 - b. Her/his marks sheet would reflect such courses having been studied by him as additional courses
 - c. The additional courses so taken would not be considered for the computation of total credits for the award of the degree.
- vii) Similarly, a person who is not a student of a university and is not registered for any Programme of Study of the university, may, with the prior permission of the Dean of the School concerned, be allowed to register for select courses of the university subject to the following conditions:
 - a. Not more than two courses in a semester may be allowed to be taken
 - b. S/he shall meet minimum eligibility conditions to pursue such courses
 - c. S/he shall be required to pay a Non-refundable Registration fee of Rs. 2000/- per semester plus the Tuition Fees twice the rate as applicable to such courses
 - d. S/he shall not be considered to be a student of the University and shall,

therefore, not be eligible to the privileges of a student of the University. However, s/he shall be subject to the disciplinary jurisdiction of the University authorities

- e. Subject to the successful completion of all credit requirements for the courses so taken, s/he shall be eligible to receive a testimonial from the university indicating the courses that s/he has so attended and qualified. This may however, not entitle her/him to receive any certificate/diploma/degree of the university.
- viii) If at any time it is discovered that a candidate has made a false or incorrect

statement or has furnished false or incorrect information or has used any other fraudulent means for securing admission her/his name shall be removed from the rolls of the university.

- ix) A student admitted to the University shall be a member either of a Hall of Residence Hostel or Non-Resident Students Centre of the University.
- x) A student admitted to a Programme of Study if detained due to the shortage of attendance in the first Semester, will no longer remain the student of the University. Such students will have to seek fresh admission and will be required to go through the entire admission process.

ACADEMIC CALENDAR 2017-18

The academic calendar and commencement of classes for all Programmes of Study shall be in accordance with the guidelines/regulations issued by the UGC and/or other national level regulatory bodies as issued and amended from time to time. For the academic session 2017-18, it shall be as under:

Monsoon Semester	
Activities	Dates
Commencement of Classes	1 August 2017
Mid Term Examination	9 to 14 October 2017
End Semester Examination	11 to 23 December 2017
Winter Vacation	25 December 2017 to 23 January 2018
Semester ends	23 January 2018

Spring Semester	
Activities	Dates
Commencement of Classes	24 January 2018
Mid Term Examination	26 March to 31 March 2018
End Semester Examination	15 June to 29 June 2018
Summer Vacation	1 July to 31 July 2018
Semester ends	31 July 2018
On-the-Job Training/Field Work	31 July 2018

SCHEDULE OF FEES FOR CERTIFICATE/UG/PG PROGRAMMES

Heads of Fees/Funds	MBA/MBA(TT)/ MSc/MSW/ BSc Hons. in Physics	MA/MLIS	UG Programmes of Study	Certificate
ONE TIME				
Alumni Registration Fee	100	100	10	00
Security Deposit/Caution Money (refundable)	3000	100	500	500
University Registration/Enrolment Fee	500	500	100	100
PER SEMESTER				
Examination Fee	600	500	200	150
Research Supervision Fees	00	00	00	00
Subject Association Fund	200	50	00	00
Teaching Learning Resource Fund	400	50	20	20
Tuition Fee	2400	1000	500	100
Admission Fees	500	100	100	50
Campus Development & Beautification Fund	100	20	10	10
Convocation Fee	50	50	50	00
Cultural Activities Fund	50	20	20	20
Development Fund	500	50	50	10
Electricity & Water Fee	100	100	100	20
Foundation Day Celebration Fee	50	30	50	20
Games & Sports Fund	50	50	50	20
ICT Lab Fee	100	10	10	10
Language/ Practical Lab Fee	200	100	100	10
Library Fee	100	20	20	10
Magazine Fee	50	50	50	20
Medical Fees	50	50	50	10
Non Residential Student Centre Fee	00	00	00	00
Students Welfare Fund	100	50	50	20
Total per Semester	5600	2300	1430	500

NOTE:

The Fee payable by the students is fixed by the Executive Council on the recommendation of the Academic Council and is notified in the Admission Brochure/Prospectus issued by the University from time to time.

1. An additional fee towards Professional Development Fund shall be chargeable as under:
 - a. Rs 4000/- per semester from the students admitted to MBA/MBA(TT)/MSW/MSc/BSc Hons.
 - b. Rs 1000/- per semester from the students admitted to all other PG Programmes of Study.
2. Tuition fee for offering audit course and 'I' grade will be Rs 100/- per credit.
3. For 'F', 'I' and audit course, examination fee will be Rs 100/- per credit.

NOTE: For any Programme of Study in Sanskrit, no tuition and admission fee shall be charged.

Schedule of Hostel Fee for 10 Months (Post Graduate Programmes)

Particulars	Fee (in Rs.)	Total (Annual)
Hostel Admission fee (Non-refundable)	500 (One Time)	500
Hostel Security Fee Deposits (Refundable)	1000 (One Time)	1000
Room Rent	500 (Per Month)	5000
Electricity and Water Charges	150 (Per Month)	1500
Hostel Establishment Charges	150 (Per Month)	1500
Kitchen Establishment Charges	150 (Per Month)	1500
Total		11000

Schedule of Hostel Fee for 12Months (RD Scholars)

Particulars	Fee (in Rs.)	Total (Annual)
Hostel Admission fee (Non-refundable)	500 (One Time)	500
Hostel Security Fee Deposits (Refundable)	1000 (One Time)	1000
Room Rent	500 (Per Month)	6000
Electricity and Water Charges	150 (Per Month)	1800
Hostel Establishment Charges	150 (Per Month)	1800
Kitchen Establishment Charges	150 (Per Month)	1800
Total		12900

THINGS TO REMEMBER

Programmes of Study offered in 2017-18

- 1) MSc (Physics)
- 2) MSc (Mathematics)
- 3) MSc (Computational Biology and BioInformatics)
- 4) MSc (Information Technology)
- 5) MSc (Environmental Science)
- 6) MBA
- 7) Master of Social Work (MSW)
- 8) MA (Sociology)
- 9) MA (Economics)
- 10) MBA(Specialisation in Travel and Tourism)
- 11) MA (Education)
- 12) MA (Journalism & Creative Writing)
- 13) MA (New Media Communications)
- 14) Master of Library Science (M Lib Sc.)
- 15) MA (English Language and Literature)
- 16) MA (Hindi)
- 17) MA (Sanskrit)
- 18) BSc (Physics Honours)
- 19) BA (Sanskrit Honours)
- 20) B.Voc. (Mass communication)
- 21) B.Voc. (Financial and Marketing services)
- 22) Certificate in Gojari Language
- 23) Certificate in Gujjar History and Culture

Only Online Application shall be received

A candidate must **apply online** by clicking on the link given at the **University Website** (www.cuhimachal.ac.in). Applicants are advised to read carefully all instructions given therein. Requisite application fee can be made through any of the following mode:

- **Debit Card** of any bank (Visa/Master Card/Maestro)
- All major **Credit Cards**
- **Last Date** to apply online is **28th May 2017 (Sunday) for PG Programmes** and **29th May 2017 (Monday) for UG Programmes.**

COMPONENTS OF ENTRANCE EXAMINATION

The Entrance test will be discipline specific and aimed to assess the knowledge of the subject in which the applicant wants to seek the admission. It will have four sections as specified by the concerned department (60 MCQ type questions of one mark each).

1. There shall be no negative marking.
2. The candidate will have to choose one correct answer and mark on OMR sheet. However if a candidate marks multiple entries in the OMR sheet for particular question(s), it will be treated as cancelled.
3. Each correct answer will carry 01 mark.
4. In case a candidate appears in subject other than that specified in his/her application form/admit card, his/her exam will be cancelled. It is the responsibility of the candidate to appear in correct paper prescribed for the chosen Programme of Study.
5. Use of any unfair means shall automatically disqualify the candidate from the entrance examination 2017.

SYLLABUS FOR ENTRANCE TEST 2017

MA (English Language & Literature)

Section A: Major Literary Terms

Section B: Major Poets (John Milton, Alexander Pope, William Wordsworth, William Blake, John Keats, Robert Frost, Rabindranath Tagore, Derek Walcott, Alfred Lord Tennyson and Robert Browning)

Section C: Major Novelists (Jane Austen, Charles Dickens, Thomas Hardy, R.K. Narayan, Kamla Markandya, Mark Twain, Charlotte Bronte, Virginia Woolf, V.S. Naipaul, William Golding, Bhishm Sahani)

Section D: Major Dramatists (William Shakespeare, Christopher Marlowe, G.B. Shaw, John Osborne, Harold Pinter, Vijay Tendulkar, Sophocles, Samuel Beckett, Bertolt Brecht, Arthur Miller)

MA (Hindi)

- हिन्दी साहित्य का इतिहास
- हिन्दी भाषा का विकास
- हिन्दी कथा साहित्य (कहानी + उपन्यास)
- काव्य शास्त्र (भारतीय + पाश्चात्य)

MA (Sanskrit)

- वैदिकवाङ्मयः संहिताः, ब्राह्मणानि, आरण्यकाणि, उपनिषदः, वेदाङ्गानि
- व्याकरणम् : शब्द-धातुरूपाणि, सन्धि-कारक-समासाः, प्रत्ययाः, अनुवादः
- संस्कृतसाहित्यम् : काव्यानि, नाटकानि, छन्दांसि, अलङ्काराः, कविपरिचयः
- पुराणेतिहासं दर्शनानि च: रामायणम्, महाभारतम्, श्रीमद्भगवद्गीता, षड्दर्शनानि, स्मृतयः, पुराणानि

MA (Journalism and Creative Writing) and MA (New Media Communications)

1. General Awareness

History of Media, Prominent Personalities Associated with Print Media, and other Media related issues.

2. Current Affairs

Current Debates on Media, Awards & Honours, Policy Matters, latest happenings and other Media related issues

3. Print Media

Reporting, Editing, Media Management, Development Journalism, Public Relations, Advertising, Film.

4. Electronic Media

Television and Radio Production, Online Media, Production Techniques, Digital Broadcasting.

M.Sc. (Computational Biology and Bioinformatics)

Considering the interdisciplinary and integrative nature of the subject and to give equal opportunity to students coming from various disciplines, the questions requiring thinking and analysis in the following subjects will be asked in the entrance exam and equal weightage will be given to each paper. Following will be the composition:

All the above sections will be given equal proportion and the questions will be designed from the **bachelor's level syllabus.**

	Subject	Number of Questions
1.	Physics	20%
2.	Chemistry	20%
3.	Mathematics (including Statistics)	20%
4.	Computer Sciences	20%
5.	Biology (Botany, Zoology, Biochemistry, Molecular Biology, Genetics, Microbiology etc.)	20%

MA (Economics)

- **General Economic Awareness** Indicators of Growth and Development, Trends in Poverty, Unemployment and Economic Growth in India, Indian Economic Institutions (Objectives, Functions & Organizational Structure): Planning Commission (Niti Ayog), Finance Commission, Reserve Bank of India, Economic Reforms in India, Trends in Liberalization, Privatization and Globalization in India, Exports and Imports in India, World Trade Organization (WTO) Agreement, International Economic Institutions (Objectives & Functions): World Bank, International Monetary Fund (IMF)
- **Mathematics I**
Set Theory, Linear and Quadratic Equations, Functions, Exponential and Logarithmic Functions, Matrix Operation (Addition, Subtraction, and Multiplication)
- **Mathematics II**
Limits & Continuity, Derivatives, Higher Order Derivatives, Partial Derivatives, Maximum/Minimum of a Function (One variable), Integration

- **Statistics**

Univariate distributions: Frequency table, Histogram

Central tendency: Mean, Median, Mode, Harmonic Mean, and Geometric Mean.

Measures of Dispersion: Range, Interquartile range (IQR), Mean deviation, Standard deviation, Coefficient of variation (CV),

Correlation Analysis- Simple correlation, Partial correlation (three variables), multiple correlation (three variables), and Rank correlation

Probability: Basic concepts of probability, Venn diagram, Joint probability, Conditional probability, Permutations and Combinations

M.Sc. (Information Technology)

Section-A (30 % weightage)

Fundamental of Computer: History of computer, classification of computer, characteristics of computer, application of computer, hardware, software, firmware, CPU, memory hierarchy, I/O devices, number system, Boolean algebra, introduction to internet and email.

Programming in C and C++: Control structures, data structures (arrays, records included), data types, and functions, subroutines, parameter passing mechanism, Pointers, scope and lifetime of variables. Procedural and Problem oriented programming languages, Top-Down Programming, Bottom-up programming, Object Oriented Programming, Essentials of OOPs (Encapsulation, Overloading, Inheritance, Polymorphism) Object, Classes, Constructors, Destructors, and Exception Handling.

Computer Architecture: Overview of basic digital building blocks; basic structure of a digital computer. Combinatorial logic (multiplexers, decoders, encoders comparators, arithmetic operators included) sequential circuits (flip flops, counter and shift register).

Section-B (30 % weightage)

Computer organization: Introduction, system buses and instructions cycles, memory subsystem organization and interfacing, and I/O subsystem organizations.

Basics of Operating System: Introduction of operating system, classification of operating system, Structure of operating system, Process management and scheduling, memory management, file systems, IO management.

Data Communication & Computer Networks: Introduction, data Transmission mode- simplex, half duplex, full duplex, analog and digital signal, transmission media, network reference model and architecture (OSI and TCP/IP), networks types (LAN, MAN and WAN), network topologies, components of network.

Database Management System: Basics of data management systems, database models, relational algebra, relational calculus, normalization, and SQL.

Section –C (20% weightage)

Mathematics: General Mathematics up to CBSE XII standard.

Section –D (20% weightage)

Physics: General Physics up to CBSE XII standard.

Master of Social Work (MSW)

- **Sociological Concepts and Social Problems**

Society, Community, Groups – Definition, Types; Types of Society, Social Institutions, Groups and its Type

Social Problems: Poverty, Unemployment, Drug Addiction, Old Age & Destitution, Corruption, Domestic Violence, Displacement, Harassment & Abuse in workplace; Communism, Secularism & Socialism

- **Social Change & Social Reform** Social Reform Movements

Social Reformers: Mahatma Gandhi, Vinoba Bhave, Ambedkar, Vivekanand, Raja Ram Mohan Roy, Mother Teresa, etc. and their contribution

Social Legislation – RTI, Domestic Violence, POSCO, and Legislation related to SC/ST, Juvenile Justice Act, Lokpal, Legal Aid & Public Interest Litigation.

Non-governmental Organizations

- **Indian Polity, Social Policy & Social Development** Constitution of India: Fundamental Rights, DPSP, Fundamental Duties; Constitutional provisions and safeguards for SCs, STs, OBCs, Women & Children; Panchayati Raj System; Human Rights: Institutions, International Conventions Social welfare and social development: Recent Policies and Programmes Information Communication Technology Health – Epidemiology, Communicable disease, Health Systems, Health Indicators Community Development
- **Social Research** Basics of Research Methodology, Nature & Types of Research Science & Scientific Method; Research Design, Sampling, Techniques of Data Collection; Basic Statistics : Mean, Median & Mode

M. Sc. (Mathematics)

- **Mathematical Analysis:** Sequence and series of real numbers, Mean value theorem, Maxima and minima of functions of a single variable and several variables, Open and closed sets, limit points, completeness of R, Uniform Continuity and convergence, Power series, proper and improper integrals, Fundamental theorem of calculus, Gradient, divergence, curl and Laplacian, Green's, Stokes and Gauss theorems and their applications.
- **Ordinary and Partial Differential Equations:** First order ODEs, Initial value problems, Linear ODEs with constant and variable coefficients, Method of variation of parameters, first order linear PDEs and Lagrange method, Linear PDEs with constant and variable coefficients.
- **Complex Analysis:** Algebra of complex numbers, Analytic functions, Cauchy-Riemann equations, Contour integral, Cauchy's theorem, Cauchy's integral formula, Liouville's theorem, Taylor series, Laurent series, singularities, calculus of residues, Conformal mappings.
- **Linear Algebra and Algebra:** Systems of linear equations. Matrices, rank, determinant, inverse. Eigenvalues and eigenvectors. Finite Dimensional Vector Spaces over Real and Complex Numbers, Basis, Dimension, Linear Transformations, Groups, subgroups and normal subgroups, Lagrange's Theorem for finite groups, group homomorphisms and basic concepts of quotient groups, rings, ideals, quotient rings and fields.

MBA (Specialisation in Tourism and Travel)

SECTION-A Himachal Pradesh as a Tourist Destination

- Geography of Himachal Pradesh, Climate, People, Language, Population.
- Important Fairs and Festivals, Performing Arts, Wildlife, Cuisine, Temples, Churches, Gurudwara, Monasteries, Adventure tourism places and important tourism Circuits of Himachal Pradesh

SECTION-B Tourism Product of India

- Heritage Tourism products of India: Forts, Palaces, other architectural marvels etc.
- Religious Tourism Products of India: Temples, Mosques, Churches, Gurudwara etc.
- Natural Tourism Resources in India: Landforms (mountains, deserts, beaches, coastal areas and Islands), Water bodies and biotic wealth (flora – fauna), wildlife etc.

SECTION-C Indian Culture and Society

- Cultural Tourism Resources in India: Indian History, Traditions, Customs and costumes, cuisine. Music, Dance forms; painting, Craftsmanship etc.
- Contemporary tourism destinations for adventure tourism, eco-tourism, health tourism etc.

SECTION-D World Tourism Destinations

- Major popular tourism destinations of the world

MSc (Physics)

SECTION-A

Mathematical methods

Infinite sequences and series - convergence and divergence, conditional and absolute convergence, ratio test for convergence.

Calculus of single and multiple variable, Partial derivatives, Jacobian, Imperfect and perfect differentials. Taylor Expansion.

Vector algebra, Vector Calculus, Multiple integrals, Divergence theorem, Green's theorems, Stokes' theorem, Orthogonal coordinate systems.

First order equations and linear second order differential equations with constant coefficients.

Linear vector spaces, linear independence, basis. Matrices and determinants, Hermitian adjoint and inverse of a matrix; Hermitian, orthogonal, and unitary matrices; Eigenvalue and eigenvectors.

Fourier expansion – statement of Dirichlet's condition, analysis of simple waveforms with Fourier series.

Probability distributions and error analysis.

Classical mechanics and general properties of matter

Newton's laws of motion and applications, Velocity and acceleration in Cartesian, Polar and cylindrical coordinate systems. Uniformly rotating frame, Centrifugal and Coriolis forces.

System of particles, Center of mass, Equation of motion of the CM, Conservation of linear and angular momentum, Conservation of energy, Variable mass systems

Motion under a central force, Kepler's laws, Gravitational Law and field, Conservative and non-conservative forces

Elastic and inelastic collisions.

Differential equation for simple harmonic oscillator and its general solution, Superposition of two or more simple harmonic oscillators, Lissajous figures, Damped and forced oscillators, resonance, Wave equation, travelling and standing waves in one dimension, Energy density and energy transmission in waves, Group velocity and phase velocity, Sound waves in media, Doppler Effect.

Rigid body motion, Euler angles, Fixed axis rotations. Moments of Inertia and products of Inertia, Parallel and perpendicular axes theorem, Principal moments and axes.

Kinematics of moving fluids, Equation of continuity, Euler's equation, Bernoulli's theorem.

SECTION-B

Optics

Fermat's Principle, General theory of image formation, Thick lens, Thin lens and lens combinations.

Huygen's principle, Interference of light, Optical path retardation, interferometers.

Fraunhofer diffraction, Rayleigh criterion and resolving power, Diffraction gratings.

Linear, Circular and elliptic polarization, Double refraction and optical rotation.

Lasers, principle and working.

Electricity and magnetism

Electricity and Magnetism: Coulomb's law, Gauss's law, Electric field and potential

Electrostatic boundary conditions, Solution of Laplace's equation for simple cases.

Conductors, Capacitors, Dielectrics, Dielectric polarization

Volume and surface charges, energy stored in Electromagnetic field

Biot-Savart law, Ampere's law, Faraday's law of electromagnetic induction, Self and mutual inductance. Alternating currents, Simple DC and AC circuits with R, L and C components.

Displacement current, Maxwell's equations and plane electromagnetic waves, Poynting's theorem.

Lorentz Force and motion of charged particles in electric and magnetic fields.

Reflection and refraction at a dielectric interface, Transmission and reflection coefficients.

SECTION-C

Modern Physics

Inertial frames and Galilean invariance, Postulates of special relativity, Lorentz transformations, Length contraction, Time dilation, Relativistic velocity addition theorem, Mass energy equivalence. Blackbody radiation, Planck's law, Rayleigh- Jeans and Wein's law, Photoelectric effect, Compton Effect.

Bohr's atomic model, Sommerfeld's correction, X-rays.

Wave-particle duality, Uncertainty principle.

Wave function and its interpretation, wave packets, Dynamical variables as operators, measurement of observables, expectation values. Commutation relations between operators and compatibility, observables and simultaneous measurements, Ehrenfest's theorem.

Schrödinger equation and its solution for one, two and three dimensional boxes, Solution of Schrödinger equation for the one dimensional harmonic oscillator, Reflection and transmission at a step potential.

Nuclear and Particle Physics

General Properties of Nuclei, Nuclear Models: liquid drop model, condition of nuclear stability. Experimental evidence for nuclear magic numbers, elementary accounts of nuclear shell model and its predictions, Radioactivity, qualitative account of the theory of alpha decay and beta decay, Interaction of Nuclear Radiation with matter: Energy loss due to ionization energy loss of electrons, Cerenkov radiation, Rutherford scattering, multiple coulomb scattering, passage of gamma- rays through matter. Compton scattering, pair production radiation loss by fast electrons, Radiation length and electron-gamma showers, position annihilation, Relativistic Kinematics. Particles Accelerators and Detectors, classification of elementary particles, Types of interactions and its features, Mass spectra and major decays of elementary particle: leptons, mesons, baryons, Weak and electromagnetic Decays of Strange mesons and Hyperons. Classification of weak decays and selection rules.

SECTION-D

Atomic and Molecular Spectroscopy

Good quantum numbers and selection rules. Stern-Gerlach experiment, Fine structure.

Magnetic moment of the electron, Lande g factor. Vector model – space quantization. Zeeman effect. Explanation from vector atom model.

Pauli exclusion principle, shell structure. Hund's rule, spectroscopic terms of many electron atoms in the ground state, Spectra of alkali and alkaline earth atoms. Rotational and vibrational spectra, Raman effect, Stokes and anti-stokes lines, complimentary character of Raman and Infrared spectra, experimental arrangements for Raman spectroscopy.

Kinetic Theory of Gases and Thermodynamics

Elements of Kinetic theory of gases. Velocity distribution and Equipartition of energy. Specific heat of Mono-, di- and tri-atomic gases. Ideal gas, van-der-Waals gas and equation of state. Mean free path.

Laws of thermodynamics. Zeroth law and concept of thermal equilibrium. First law and its consequences. Isothermal and adiabatic processes. Reversible, irreversible and quasi-static processes. Second law and entropy. Carnot cycle. Maxwell's thermodynamic relations and simple applications. Thermodynamic potentials and their applications. Phase transitions and Clausius-Clapeyron equation. Ideas of ensembles, Maxwell-Boltzmann, Fermi-Dirac and Bose-Einstein distributions.

Solid State Physics and Electronics

Basics of Crystal Structure: Lattice and basis, primitive and unit cell, Wigner Seitz cell, symmetry operations, lattice types, packing fraction, Miller indices, simple structures NaCl, diamond. Diffraction Methods: Bragg's Law, experimental arrangements, Laue equation, reciprocal lattice, atomic scattering factor, geometrical structure factors. Crystal bonding: Potential between a pair of atoms, Lennard-Jones potential, Ionic, Covalent, Vander - Waal's, cohesive energy, Lattice Vibration, specific heat Einstein and Debye's models of specific heat. Free electron theory of metals, Band Theory of Metals: Kronig Penny model, Brillouin zones, electrons in periodic structure, energy bands, energy gaps, effective mass of electrons and holes, metals, insulators, semiconductors, Magnetism, Curie-Weiss law, Langevin theory, basics of superconductivity.

Junction Diodes, Transistors their characteristics and simple circuit designs: Thevenin's Theorem, Norton Theorem, Constant Voltage and current generator, idea of equivalent circuits, low frequency equivalent circuits, h-parameters, bias stability, thermal runaway. BJT, FET's and MOSFETS: Structure and working, FET amplifier. Oscillators: Tuned Collector, Hartley and Colpitts oscillators, phase shift oscillators. Operational Amplifier, inverting noninverting amplifier, OP-Amp as adder, subtractor, comparator, integrator and differentiator. Modulation and detection, Digital electronics fundamentals, various number systems, Basic logic gates, de-Morgan's law

MSc (Environmental Sciences)

Section A: Law of Motion, Work, Energy and Power, Gravitation; Gas Laws, The First Law of Thermodynamics, Joule's Law, Specific Heats, Enthalpy, Adiabatic Processes; The Spectrum of Radiation, Blackbody Radiation, The Planck Function, Wien's Displacement Law, The Stefan-Boltzmann Law, Kirchhoff's Law, Beer's Law; Interaction of light with matter: Transmission, Absorption, Scattering; Beer-Lambert's Law; Atomic Absorption and Atomic Emission Spectra, X-Rays and Interaction of X-Rays with Matter. Single variable calculus: domain and range, maxima and minima, continuity, differentiability, integration; matrices and determinants; eigen values and eigenvectors; permutation and combination; ordinary differential equations with constant coefficients; analytic functions; groups and subgroups.

Section B: Microbes-diversity, structure and reproduction. General account of infection, Phytoimmunology; Microbiology-Role in agriculture, industry, medicine and pollution combatment; Important plant diseases caused by viruses, bacteria, fungi and nematodes; Cryptogams and Gymnosperms-classification, distribution, diversity, structure and reproduction from evolutionary view point; Angiosperms- Systematics, anatomy, embryology, palynology and phylogeny; various systems of Classification; Non-chordata and chordates- General characters, nutrition, locomotion, reproduction of Protozoa, Coelenterata, Platyhelminthes, Nematelminthes, Annelida, Arthropoda, Mollusca, and Echinodermata, comparative study of Pisces, Amphibia, Reptilia and Mammalia; Cell and Molecular Biology-Techniques of Cell Biology, Prokaryotic and eukaryotic cells, Linkage and crossing over-methods of gene mapping including molecular maps; sex determination and molecular basis of sex differentiation, Mutations; Organic evolution; Ecology- Ecosystem structure and function of ecosystem, food chains, food webs and ecological succession; Ecological factors, Concepts and dynamics of community, Plant succession, Concepts of biosphere, Ecosystems and their conservation, Pollution, afforestation, deforestation and social forestry, Endangered plants, endemism and Red Data Books, Biodiversity- Convention of Biological Diversity and Conservation, Sovereign Rights and Intellectual Property Rights, Biogeochemical cycles.

Section C : Element and periodicity, reaction mechanism, ionic, covalent and complex compounds , alkane, alkene , alkyne and aromatic compounds. Heterocyclic compounds, Homolytic and heterolytic fission , chemical kinetics.

Environmental studies its scope and importance; Concept of sustainability and sustainable development. Natural Resources Renewable and Non-renewable Resources and its conservation; Environmental Pollution; Environmental Legislations - national and international ; Current environmental Issues- Climate change, global warming, ozonelayer depletion, acid rain and impacts on human communities and agriculture.

Section D : Modern theories on the origin of the Earth; Internal structure of Earth; Theory of Plate tectonics and its implications in understanding mountain building and sea floor spreading processes; Folds and Faults; Natural hazards; Introduction to rocks and minerals. Different types of rocks and their characteristics; Rock-forming minerals; weathering and erosion of rocks and minerals; Geological Time Scale and associated geological events; Biogeochemical cycle; Physical work of river, wind, glacier, sea and lake; basic hydrology; engineering geology; environmental geology.

Section A: Data Analysis and Numerical Aptitude:

- Data analysis and interpretation based on text, graphs and tables,
- Time, Speed, Distance, Ratios and Proportions
- Profit & Loss, Simple and Compound Interest
- Elementary Statistics

Section B: Business Awareness:

- Indian Business Environment
- Legends of Business and Business Corporate
- Current Issues in Business
- Famous Awards and Prizes in Business
- International Institutions
- Brand, Trademarks and Advertisements

Section C: Business Communication:

- Business Writing
- Business Vocabulary
- Pronouns and Misplaced Modifiers
- Sentence Completion
- Synonym and Antonyms

Section D: General Knowledge:

- National Statistics
- Economic Geography
- Famous Books and Authors
- Sports
- Current Affairs

Master of Library Science (M.Lib. Sc.)**SECTION-A****Types of library systems**

- Role of libraries in the contemporary society
- National libraries features, functions & activities
- Academic libraries features, functions & activities
- Special libraries features, functions & activities
- Public libraries features, functions & activities

SECTION- B**Knowledge, Information and Data; Types of societies**

- Data types
- Primary, secondary and tertiary information
- Types of knowledge
- Agricultural society, industrial society
- Knowledge society

SECTION-C**Information sources**

- Difference between ordinary book and reference book
- Difference between Journal and Magazine
- Difference between indexing service and abstracting service
- Difference between handbook and directory
- Difference between thesis and dissertation
- Difference between patent and standard

SECTION-D**Computer Fundamentals**

- Computer Organisation
- Generations of Computers

- Classification of computers
- Computer memory: RAM, ROM
- Secondary Storage: Characteristics of Hard disk and CD-ROM, DVDs, Blue-ray Disks
- Printers and Scanners; Types and characteristics
- Types of software.

MA (Sociology)

SECTION-A

Introduction to Sociology, Human Society, Culture, and Socialization: Definition, Nature, Relationship of Sociology with other Social Sciences, Human Society, Social Groups, Association, Community, Caste and Social Stratification, Culture and Civilization, Cultural Lag, Conceptual Understanding of Acculturation, Assimilation and Socialization.

SECTION-B

Social Structure and Change: Status and Role, Social Change: Types of Social Change: Evolution (Comte), Revolution (Marx). Processes of Social Change: Sanskritization, Westernization, Modernization, Secularization and Globalization.

SECTION-C

Rural and Urban Society: Family, Marriage, Kinship, Cultural Change, Economy and Polity (Village Panchayat). Urban Society: Concepts of Urbanization and Urbanism, Urban family, Voluntary associations, Slums, Crime, Pluralism and Cultural diversity, Industrialization, population growth and Social Change.

SECTION-D

Sociology of Underprivileged: Women, Scheduled Castes, Scheduled Tribes, Disabled, Minorities. Gender inequality, Aging, Racial and Ethnic Inequality.

MA (Education)

Section A

1. Co-operative nature
2. Wide interest and Scholarly taste
3. Moral character & discipline
4. Leadership quality
5. Empathy with the needs of problems of children

Section B-Indian Society

1. Social process: social stratification, social change, social mobility
2. Society and culture: cultural change, cultural lag, acculturation
3. Social problem: Social injustice and inequality, poverty, crime against women, child labour, drug abuse

Contemporary Indian education system

1. Education in independent India: Provisions for education in Indian constitution, Structure of Indian education system: from Primary to higher education
2. Efforts for free and compulsory education: from Sarva Shiksha Abhiyan to Right to Education

Section C-Human development and learning

1. Thinking, Reasoning and problem
2. Learning processes
3. Human development

Section D

1. Caste and Class: The Education of marginalized
2. Gender: The Girl Child and Schooling
3. Education of/for minorities
4. Language, Politics and Culture: Mainstream and alternatives
