

Handbook of Information

Master of Technology

M. Tech. (Computer Science)

Batch (2023-2025)

Vision

To keep pace with the emerging trends in Computer Science and Technology

OUR AIMS

- ✚ Producing a class of computer professionals
- ✚ Achieving academic excellence
- ✚ Nurturing the students of today into resolute builders of the future
- ✚ Discover the ultimate in the field of Computer Science and Technology
- ✚ To strengthen the computer literacy missions of the Government
- ✚ To enlighten the forthcoming generations with the best of computer education
- ✚ To impart technical and interpersonal skills to the students
- ✚ To produce computer professionals who can face not only the present but also future challenges of IT Industry
- ✚ Endeavour to provide IT based solutions to the society

Motto

To produce skilled professionals in computer applications



हिमाचलप्रदेश विश्वविद्यालय – कुलगीत

पवित्रित वेदमंत्रो से मनोरम देवभूमि-निलय
विराजे नवल नालन्दा उन्हीं की छाँव में मधुमय
हिमाचल विश्वविद्यालय
विविध विद्यालय, जय जय !!

धरा जो शक्तिपीठों की, धरा शत कोटि तीर्थों की
धरा जो शैलसंस्कृति की, धरा जो नृत्य-गीतों की
जहाँ रावी-विपाशा चन्द्रभागा पुण्य सलिलायें
कुसुम गलहार बनती हैं शतद्रू संग, सरितायें

धरा माण्डव्य ऋषि की परम पावन, ज्ञानमय-चिन्मय
हिमाचल विश्वविद्यालय
विविधविद्यालय, जय जय !!

जहाँ तक रम्य धौलाधार पर्वत-शृंखला दिखती
वहाँ तक ज्ञान मधु रश्मियाँ नितफैलती रहतीं
धिरकते पाँव नाटी पर, लरजते गीत चम्बा के
स्वयं श्री शारदा साकार हो उठतीं उन्हें गाके

लिये 'शास्त्रे च शस्त्रे कौशलम्' का मंत्र जो निर्भय
हिमाचल विश्वविद्यालय
विविधविद्यालय, जय जय !!

तपोरत देवदारु खड़े तथागत-सदृश हैं लगते
सुभग सन्देश मैत्री का निरन्तर बाँटते रहते
हिमाचल का परम गौरव, सदन विद्या-कलाओं का
सदन विज्ञान का, तकनीकियों का, योग्यताओं का
निरन्तर बढ़ रहा आगे उदित रवि सा, सतत समुदय
हिमाचल विश्वविद्यालय
विविधविद्यालय, जय जय !!

From the Desk of Vice-Chancellor



प्रो० सत प्रकाश बंसल
कुलपति

हिमाचल प्रदेश विश्वविद्यालय
राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद् द्वारा प्रत्यायित "ए" ग्रेड विश्वविद्यालय
ज्ञान पथ, समरहिल, शिमला - 5




संदेश

मुझे यह जानकर प्रसन्नता हो रही है कि हिमाचल प्रदेश विश्वविद्यालय के कम्प्यूटर विज्ञान विभाग में शैक्षणिक सत्र 2023-24 के लिए छंटनी परीक्षा के माध्यम से एम.टेक. प्रवेश प्रक्रिया आरम्भ करने के लिए विवरणिका तैयार कर ली गई है।

इस विश्वविद्यालय ने अपने अस्तित्व के लगभग 52 वर्षों में शिक्षा के प्रचार-प्रसार में कई कीर्तिमान स्थापित किए हैं तथा यह विश्वविद्यालय पूरे राज्य का केवल एक मात्र सम्बद्धता प्रदान करने के अतिरिक्त अकेला सह-आवासीय उच्च शिक्षा का प्रगतिशील केन्द्र है।

नई सम्भावनाओं और चुनौतियों के मध्यनजर नये सिरे से उच्चतर शिक्षा को और अधिक आकर्षक बनाने के लिए प्रतिस्पर्धात्मक परीक्षाओं में बेहतर प्रदर्शन के लिए ग्रामीण क्षेत्रों पर अधिक ध्यान देना चाहिए। मुझे आशा ही नहीं बल्कि पूर्ण विश्वास है कि इस विश्वविद्यालय में उच्चतर शिक्षा ग्रहण करने के लिए उपयुक्त वातावरण के साथ-साथ यहां का मौसम भी अति अनुकूल है।

मैं यहां शिक्षा ग्रहण करने के लिए आने वाले सभी छात्र-छात्राओं को अपनी शुभकामनायें देता हूँ तथा उनके उज्ज्वल भविष्य की कामना करता हूँ।


(आचार्य सत प्रकाश बंसल)

From the Desk of Chairman



It gives me immense pleasure in welcoming you to the Computer Science Department of Himachal Pradesh University. Knowledge always helps you to reach your destination provided you know what your destination is. The aim of the department is to provide high quality education along with training the students with all the new advancements in the computers field.

Amongst healthy environment and extremely skilled young dynamic faculty and staff I greet you to the 17th elite batch of Master of Technology (M. Tech.) (Computer Science) in the Department of Computer Science of the NAAC accredited “A” Grade University. The strategic commitment provides the road map of the long journey. The strategies include the Vision, Aim and Motto that would be instrumental in providing students the top career opportunities of the world.

The ultimate aim is to provide the students with an educational training that emphasizes innovation, social awareness and professional ethics while promoting the spirit of creativity amongst our researchers. Application of many innovative methods makes the department better than the best among these some of the ideas being applied are that theoretical concepts are performed practically, availability of latest technological environment, enhancing the creativity ability of the students and many more.

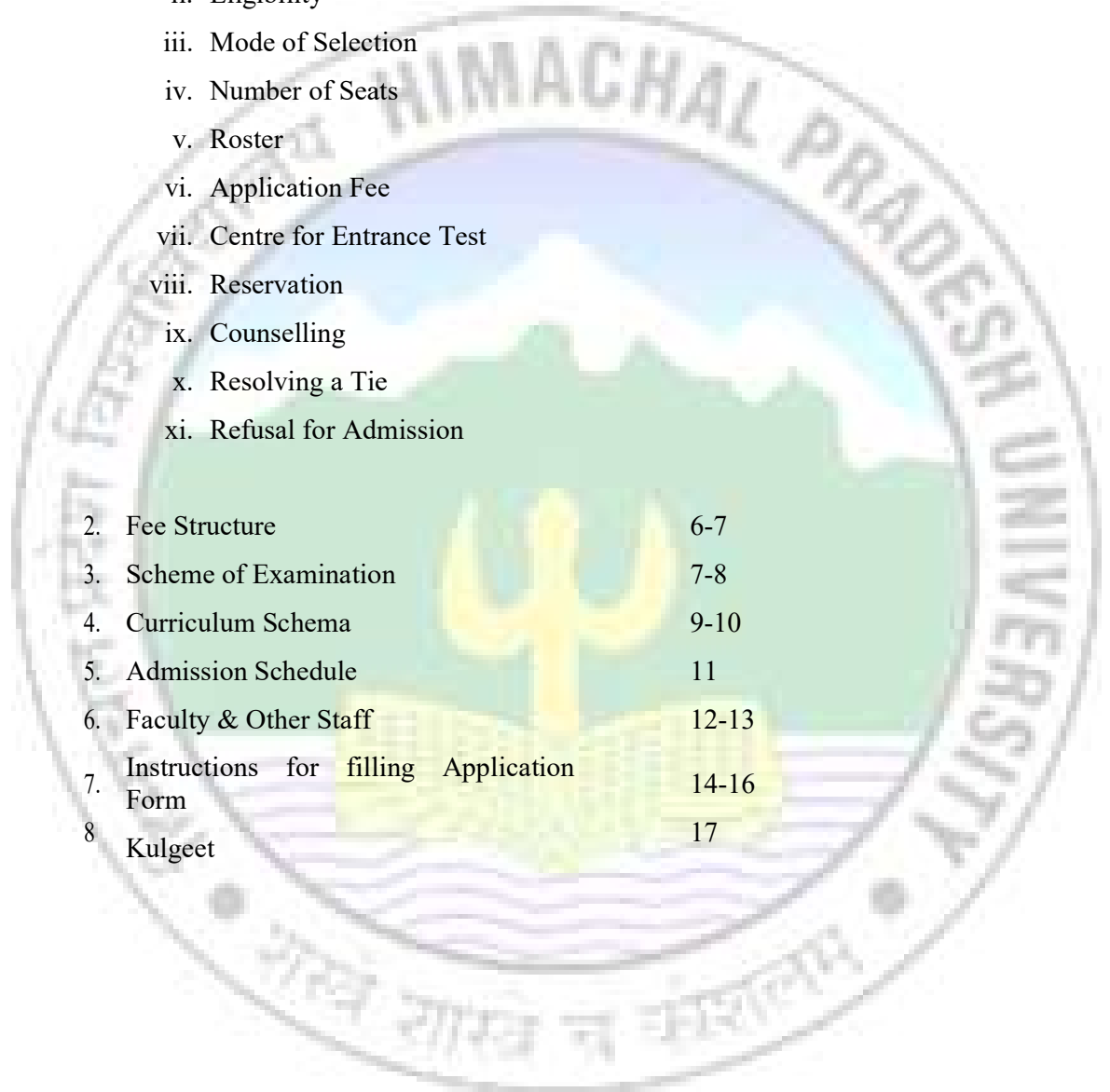
In an increasingly interconnected world, we are proud to be preparing dynamic software professionals and researchers, who make a difference, with the skills to contribute to the workforce of tomorrow. From our outstanding faculty and staff to our diverse and capable students to our distinguished alumni, we are proud of our contributions. I am confident that your higher education journey through the Department of Computer Science will give you the richest experiences of your life. I welcome all of you to join the Department of Computer Science and wish you grand success in all the endeavors of life.

(Prof. Jawahar Thakur)

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1. ADMISSION PROCEDURE

About the Course

The M. Tech. (Computer Science) is a two years full time post-graduation course spread over four semesters. In this course, the students will be taught, the core and advanced subjects of Computer Science.

Eligibility

Candidates, who have passed Master degree with minimum of 55% marks (50% marks for SC/ST category), or equivalent Grade point, in Mathematics/ Physics/ Electronics/ Computer Application (MCA)/ Computer Science/ Information Technology/ 4-years Bachelor's degree in Engineering/ Technology.

OR

Any examination, of university in foreign country, recognized as equivalent for the above purpose by equivalence committee of its own or on recommendation of Association of Indian Universities with 55% marks (50% marks for SC/ST).

Mode of Selection

The admission to M. Tech. (Computer Science) will be through the merit of an entrance test of duration one and half hours to be conducted by H.P. University, Shimla. The entrance test shall be of 100 MCQ type questions of one mark each, comprising of the following components:

Contents	Marks	Duration
Computer Science	100	90 Minutes

The Candidates who have qualified GATE/ NET/ SLET in Computer Science or Engineering will be given 20% extra of the marks obtained in the entrance test for calculating the merit for the purpose of admission.

Minimum pass marks in the entrance test shall be 35% i.e.35 marks out of a total of 100.

Number of Seats

Number of Seats: **18**

Supernumerary Seats: i) **02**(Reserved for single child who is a girl)
 ii) **02**(Reserved for the students of state of Jammu and Kashmir Migrants)
 iii) **03** (Three supernumerary seats shall be reserved for the wards of Himachal Pradesh University Employees)
 iv) **01** (PWD)

Seats for in-service candidates: **05** (Reserved)

Total: (18+2+2+3+1+5+2*) = 33

*There are 10% additional seats reserved for the Economically Weaker Section (EWS) of H.P. only.

Few Supernumerary seats for foreign National who apply through ICCR are also available as per H.P. University Rules.

18 seats will be filled by following reservation for different categories as per the 106 point reservation roster followed by H. P. University.

In case, any of these seats (supernumerary, in-service and EWS) remain vacant due to the unavailability of suitable eligible candidates, these seats shall remain vacant and under no circumstances, conversions shall be allowed.

Being a self-financing course, in case the numbers of selected candidates after entrance exam are less than nine (09), then the course will not run for the academic year.

Roster: 106 points roster for the admission shall be applicable for SC/ST categories [from 93-106 & 1-4]

<i>SN</i>	<i>Type</i>	<i>Number</i>
1	Open to All	04
2	HPU General	10
3	SC	02
4	ST	02
5	<i>SGC (Supernumerary)</i>	<i>02</i>
6	<i>J&K Migrant (Supernumerary)</i>	<i>02</i>
7	<i>Wards of H.P. University Employee (Supernumerary)</i>	<i>03</i>
8	<i>PWD</i>	<i>01</i>
9	<i>In-service candidates</i>	<i>05</i>
10	<i>Economically Weaker Section (EWS) of H.P.</i>	<i>02*</i>
Total Seats		33

Application Fee

Application Fee for General Category: Rs.1000/-

Application Fee for SC/ST/IRDP/Antodaya Category: Rs.500/-

Centre for Entrance Test

The Entrance Test for admission to the M. Tech. course shall be held at the following centre only:

H.P. University Campus, Summer Hill, Shimla

Reservation

(a) 15% and 7.5% of the seats shall be reserved for Bonafide Himachali Scheduled Castes and Scheduled Tribes candidates respectively who have passed the qualifying examination from any University established by law in India which is equivalent to the qualifying examination of H.P. University.

(b) The remaining seats shall be filled as under

(i) 25% seats shall be open for all the candidates irrespective of the institution from where they have passed their qualifying examination, in which the graduates of this University shall also be eligible to compete through competitive test.

(ii) 75% of the seats shall be filled out of the candidates who have passed their qualifying examination from Himachal Pradesh University or H.P. Krishi Vishvavidyalaya or Dr. Y.S. Parmar University of Horticulture and Forestry, Himachal Pradesh Technical University or Central University of Himachal Pradesh or the candidates who are Himachal Pradesh Domicile irrespective of passing qualifying examination from any other Universities established by law in India which is equivalent to the qualifying examinations of Himachal Pradesh University.

(c) Supernumerary seats

(i) Two supernumerary seats shall be reserved for Himachali Bonafide only single child who is a girl. In this respect, an affidavit issued by a competent authority i.e. SDM/Tehsildar/or higher authority) shall have to be submitted in original by the candidate at the time of counselling.

(ii) Two supernumerary seats shall be reserved for the students of state of Jammu and Kashmir.

(iii) Three supernumerary seats shall be reserved for wards of H.P. University Employee.

(d) In-service Candidates

5 seats are reserved for in-service applicants.

The 'in-service' candidate shall be a candidate who is an employee (on a regular or contract basis) of Govt. of Himachal Pradesh (including Colleges & Universities under the Govt.) or

Govt. of India or Boards/Corporations under state or centre governments having their headquarters in the state and is serving the organization in which currently employed for at least last 2 years. An in-service candidate has to submit the following along with the application form:

- (a) The appointment letter from the employer and a certificate from the employer that he/she has been working with the concerned organization for at least last two years and shall continue to be on their roll for at least whole of the duration of the course,
- (b) NOC on the prescribed Performa from his/her employer that in case the candidate is selected for the admission, he/she shall be granted a Study leave for a period of two years from the date of the commencement of the course as provided by the department. Upon confirmation of the admission, a letter on the prescribed Performa (provided by the department) from the employer, sanctioning study leave for a period of 2 years is to be submitted in the department on or before the stipulated last date of admission along with an affidavit from the court duly signed by the notary clearly stating that if the information supplied in any of the above mentioned documents is found to be contrary to the facts at any stage, the candidate shall be held responsible for it and the university shall have the right to cancel the admission/degree of the candidate.

The admission of such candidates shall be confirmed only if a letter from the employer sanctioning the study leave of two years is deposited within the stipulated period for the admission as mentioned in the prospectus. The validity of the above mentioned documents shall be assessed by the department and the department shall also have the right of corresponding with the employer of the candidate in case of any doubts regarding these documents. The decision of the department in rejecting or accepting these documents shall be final. In any case, notwithstanding the admission to the said course, if the department finds that the candidate has supplied false or misleading information through any of the above mentioned documents, the university shall have the right to a) cancel the admission/degree of the candidate, and b) to initiate civil/criminal proceeding against the candidate.

Counselling

The Counselling shall be held in the Department of Computer Science in the H. P. University, Shimla for admission to the M. Tech.(Computer Science) course. The candidate has to attend the counselling in person along with all the original testimonials such as Date of Birth proof, 10+2, graduation, post-graduation, NET/SLET/GATE, Bonafide resident proof, proof of only child who is a girl, proof of category, EWS, PwD etc.

In case the candidate does not attend the counselling along with the testimonials his/her candidature for admission stands cancelled.

Note:

* Merely appearing in the entrance exam does not entitle the candidate for the right to admission unless the candidate fulfills the eligibility criteria for admission to the M. Tech. course.

* It will be the entire responsibility of the candidate(s) to download the prospectus well in time and submit the application form complete in all respects within the stipulated date and time. All disputes are subject to legal jurisdiction of courts in Shimla only.

Resolving a Tie

The following Formulae shall be adopted to resolve a tie for Admission:

- (i) In case of a tie in marks scored in the entrance test, the candidate securing higher %age of marks in the qualifying exam shall be admitted first.
- (ii) Even if the tie is still not resolved, the candidate having higher aggregate marks in any two of the following (in which his marks are higher) shall be admitted first: Matriculation/Hr.Sec.Part-I/Hr.Sec.Part-II/Prep/Pre-Med/Pre-engineering/Intermediate/any other equivalent examination.
- (iii) Further, if the tie is still not resolved, the candidate younger in age shall be admitted first.

Refusal for Admission

A candidate will be refused admission to the course if he/she does not fulfil minimum eligibility conditions. Notwithstanding anything contained in the foregoing rules, a student shall be refused admission if his conduct during any previous stay in University has been unsatisfactory. Such student shall, however, have the right to appeal to the Vice-Chancellor whose decision shall be final. A student who has been expelled or rusticated shall not be admitted to any course of study in the University without the prior approval of the Vice- Chancellor.

2. FEES STRUCTURE

- a) From all students, except for the in-service candidates, a fee of Rs.30,000/- (Rupees Thirty Thousand only) per annum and an Equipment Fee of Rs.5,000/- (Rupees Five Thousand only) per annum along with other university dues shall be charged by the department. The fee shall be paid through online mode and the receipt of online payment is to be deposited at the time of admission and subsequently in the beginning of the 2nd year.
- b) For in-service students, the fee shall be Rs.50,000/- (Rupees Fifty Thousand only) per annum and an Equipment Fee of Rs.5,000/- (Rupees Five Thousand only) per annum along

with other university dues shall be charged by the department. The fee shall be paid through online mode and the receipt of online payment is to be deposited at the time of admission and subsequently in the beginning of the 2nd year.

c) The other university dues shall be charged as per university rules amended from time to time.

Withdrawal of Seat:

If a student chooses to withdraw from the program of study in which he/she is enrolled, the institution concerned shall follow the following five tier system for the refund of fees remitted by the student.

Sr. No.	Percentage of Refund of Aggregate fees*	Point of time when notice of withdrawal of admission is received in the University/ Department
1.	100%	15 days or more before the formally notified last date of admission
2.	90%	Less than 15 days before the formally notified last date of admission
3.	80%	15 days or less after the formally notified last date of admission
4.	50%	30 days or less, but more than 15 days after formally notified last date of admission
5.	0%	More than 30 days after formally notified last date of admission

***(Inclusive of course fees and non-tuition fees but exclusive of caution money and security deposit)**

In case of Sr. No. 1, in the table above, the HEI concerned shall deduct an amount not more than 10% of the aggregate fees as processing charges from the refundable amount.

3. SCHEME OF EXAMINATION

English will be the medium of instruction and examination.

(i) Each theory paper shall be of 3 hours duration and shall carry 100 marks (75 marks for end semester theory examination and 25 marks for continual internal assessment).

(ii) In each theory paper, nine questions are to be set. Two questions are to be set from each Unit and candidate is required to attempt one question from each unit. Question number nine will be compulsory, which will be of short answer type with 5-10 parts, out of the entire syllabus. In all, five questions are to be attempted.

(iii) Each practical paper shall be of 3 hours duration and will carry 100 marks (50 marks for end semester practical examination and 50 marks for continual internal assessment).

(iv) In the III semester each student shall be:

(a) Attached to a teacher of the Department who shall act as a supervisor for seminar, minor project and Dissertation work of the students in III & IV semesters.

(b) Assigned a topic by the guide and the students are required to prepare and present a seminar.

- (c) Assigned a topic for carrying out a minor project which normally may be related to the findings of a thorough study on a research area of significance which is relevant to the field of Computer Science. At the end of III semester, each student has to submit 4 nos. of copies of spiral bound report of his findings on the topic allotted to him/her in the office of the Department along with the softcopy of the same on a CDROM/DVD.
- (d) Assessed and evaluated for minor project by an external examiner.
- (v) In the IV semester, each student is required to:
- (a) Work on a topic in a significant area of research relevant to the field of Computer Science for dissertation under the guidance of his/her guide.
- (b) Submit 4 nos. of hard bound copies of the dissertation in the office of the Department along with the softcopy of the same on a CDROM/DVD.
- (c) To ensure the quality of the research work carried out by them in the III & IV semester, each student, hence is required to participate in some relevant regional/national level conferences/international level/ workshops/ seminars during these semesters. Therefore, it is mandatory for each student to publish at least one research paper (Full paper or abstract or extended abstract in the proceedings in print version/ e-version) in a regional/ national level journal/conference/International Journal/workshop/ Seminar. The certificate/proof of the published paper along with the paper shall form the part of the submitted dissertation. The students shall not be allowed to submit their dissertation without completing this requirement.
- (vi) The dissertation of each candidate shall be sent to the external examiner well in advance by the Department of Computer Science, H. P. University before the conduct of the viva-voce examination.
- (vii) The dissertation will be jointly evaluated by internal guide and external examiner.
- (viii) Internal assessment will be given on the basis of class tests (best of 2 in a semester), seminars, surprise quizzes, class participation and regularity of the student in the class.
- (ix) **Attendance:** In order to be eligible to appear in the university examinations a candidate should have secured 75% attendance in each of the concerned subjects (theory as well as practical).

Promotion Rule

The promotion norms of the MCA course are to be followed for the M.Tech. course too.

4. CURRICULUM SCHEMA

MASTER OF TECHNOLOGY in COMPUTER SCIENCE**M. Tech. (Computer Science)****Credit Based System****(w.e.f. Session 2022-23 Onwards)****First Semester**

Paper No.	Title	Credits	Periods per week	Exam Time (Hrs.)	Max Marks (Theory)	Continual Internal Assessment	Total Marks
MT-101	Computer Architecture and Parallel Processing	4	4	3	75	25	100
MT-102	Software Engineering	4	4	3	75	25	100
MT-103	Computer Oriented Optimization Method	4	4	3	75	25	100
MT-104	Data Structure & Algorithm Analysis in C	4	4	3	75	25	100
	Elective-1	4	4	3	75	25	100
MT-106	Practical on MT-103	2	4	3	25	25	50
MT-107	Practical on MT-104	2	4	3	25	25	50
Total		24					600

Second Semester

Paper No.	Title	Credits	Periods per week	Exam Time (Hrs.)	Max Marks (Theory)	Continual Internal Assessment	Total Marks
MT-201	Object Oriented Programming with JAVA	4	4	3	75	25	100
MT-202	Computer Networks	4	4	3	75	25	100
MT-203	Distributed Data Base Management System	4	4	3	75	25	100
MT-204	Data Warehousing and Data Mining	4	4	3	75	25	100
	Elective-2	4	4	3	75	25	100
MT-206	Practical on MT-201	2	4	3	25	25	50
MT-207	Practical on MT-202	2	4	3	25	25	50
Total		24					600

Third Semester

Paper No.	Title	Credits	Periods per week	Exam Time (Hrs.)	Max Marks (Theory)	Continual Internal Assessment	Total Marks
MT-301	Research Methodology in Computer Science	4	4	3	75	25	100
	Elective-3	4	4	3	75	25	100
Paper No.	Title		Periods per week	Internal Evaluation		External Evaluation	Total Marks
MT-303	Pre Dissertation	12	-	-		-	-
(a)	Seminar	-	-	50		-	50
(b)	Documentation	-	-	-		100	100
(c)	Presentation & Viva	-	-	-		150	150
Total		20					500

Fourth Semester

Paper No.	Title		Periods per week	Internal Evaluation	External Evaluation	Total Marks
MT-401	Dissertation	20	-	-	-	-
(a)	Seminar (Two)	-	-	100	-	100
(b)	Documentation	-	-	-	150	150
(c)	Presentation & Viva	-	-	-	250	250
Total		20				500

Total Credits (Semester 1 to 4) = 88

List of Electives

Paper No.	Title
MT-E01	Operating system and Case Study
MT-E02	Software Quality and Testing
MT-E03	Artificial Intelligence & Expert System
MT-E04	Advanced Software Engineering Concepts
MT-E05	Automata Theory and Compiler Design
MT-E06	Cyber Law
MT-E07	Cloud Computing
MT-E08	Distributed Systems
MT-E09	Graph Theory
MT-E10	Machine Learning

5. ADMISSION SCHEDULE:**(A) Last Date for the submission of online application form is:**

Date	Day	Time
29-April-2023	Saturday	05:00 PM

(B) Date of downloading Admit Card begins on:

Date	Day
05-June-2023	Monday

(C) Date of Entrance Test:

Date	Day
09-June-2023	Friday

(D) Date of Declaration of Result:

Date	Day
On or Before 17-June-2023	Saturday

(E) The schedule for counselling:

Date	Day	Time for reporting for interview in the office of the Department of Computer Science
04 July 2023	Tuesday	10:00 AM

Note:

- i) The candidates will be called for **counselling** in order of merit in the ratio 1:3 times of vacant seats.
- ii) The applicants called for interview shall be clearly mentioned in the merit list displayed on the website <http://hpuniv.nic.in> and notice board of the Department. No separate intimation in this regard shall be sent to the candidates.
- iii) Admission with the permission of the Vice-Chancellor, the deadline for closing admission even, if seat remain vacant for M.Tech. Programme.

Date	Day
31-July-2023	Monday

- iv) The H.P. University reserves the right to admit the candidates on the basis of entrance test or on the basis of merit of the qualifying examination
- v) No entrance test will be held in the department where the number of application form received is less than the number of seats available.

6. FACULTY & OTHER STAFF

The Department has one of the highest qualified faculty members in the region. The following faculty members are involved in various academic and professional activities in the Department, within the campus and outside the campus.

Teaching Faculty

S. No.	Name	Qualification	With us since	Total Experience (Years)
1.	Dr. Jawahar Thakur, Professor & Chairman	B. Tech. M.Tech. Ph.D.	1997	26
2.	Dr. Arvind Kalia, Professor & DS	MCA, Ph.D.	1989	34
3.	Dr. A.J. Singh, Professor	B. Tech. M.Sc., Ph. D	1992	31
4.	Dr. Manu Sood, Professor	B.E., M. Tech. Ph.D.	1993	30 in academics & 5 in industry
5.	Dr. K.L. Bansal, Professor	MCA, Ph.D.	1995	28
6.	Dr. Aman Kumar Sharma, Professor	MCA, Ph.D.	1997	26
7.	Dr. Anita Ganpati, Professor	MCA, M. Tech. Ph.D.	2000	22
8.	Dr. Sumesh Sood, Associate Professor	MCA, Ph.D.	2020	11
9.	Dr. Naveen Kumar, Assistant Professor	MCA, Ph.D.	2020	03
10.	Dr. Anshul Kalia, Assistant Professor	MCA, Ph.D.	2020	03
11.	Dr. Yogesh Mohan, Assistant Professor	MCA, Ph.D.	2020	03

Non- Teaching Staff

Name	Designation	Qualification
Mr. Babu Ram	Lab. Attendant	10+2
Mr. Naresh	Lab. Attendant	10+2

Supporting Staff

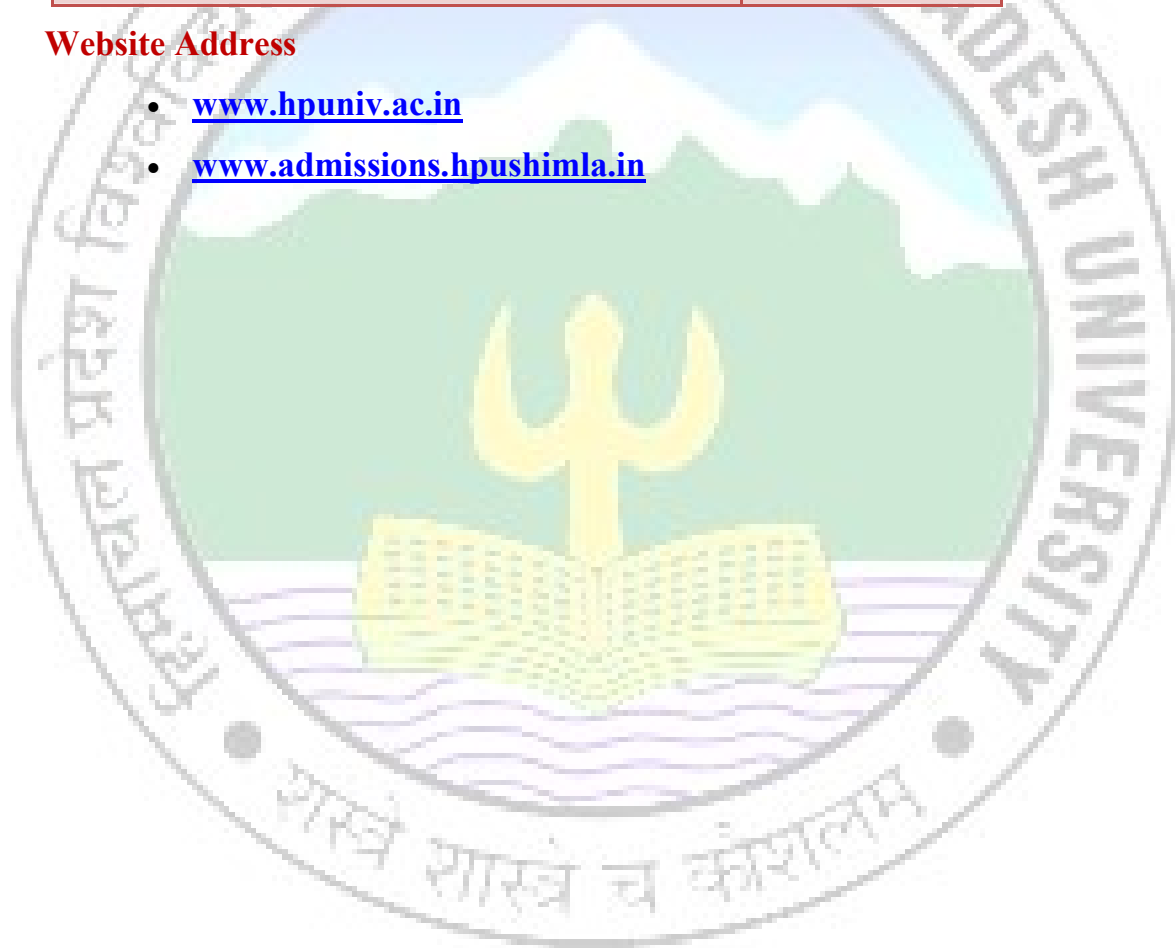
Name	Designation	Qualification
Mr. Mohan Lal (86791-00836)	Superintendent (Gr-II)	10+2
Mrs. Pooja Sharma	Clerk	PGDCA, M.A.
Mr. Shammi Kumar	Peon	

Important Phone Numbers

<i>Designation</i>	<i>Phone No.</i>
Vice-Chancellor Office	2831463
Dean of Studies	2830922, 2832922
Dean Student Welfare	2830926
Chairman, Computer Science Department	2832569
Registrar	2830914
Chief Warden	2830917
Security Officer	2831470

Website Address

- www.hpuniv.ac.in
- www.admissions.hpshimla.in



Instructions for Filling the Application Form

(Read the instructions/ Pre-requisite carefully before filling the application form)

(A) Before proceeding to apply, please ensure that you have:

1- Scanned copy of applicant's recent photograph with following specification.

- Photograph must be a passport size color picture.
- Photograph must be a taken in full face view directly facing the camera.
- Photograph should have no shadows and red eyes.
- Maximum size 100KB.
- Photo format should be jpg/jpeg only.

2- Scanned copy of applicant's signature with following specifications.

- Applicant should sign with black ink on a white paper and get the signature scanned.
- The signature must be signed only by the applicant and not by any other person.
- Maximum size 100 KB.
- Scanned signature format should be jpg/jpeg only.

3- Scanned copy of applicant's Father/Mother signature with following specifications.

- Applicant's Father/Mother should sign with black ink on a white paper and get the signature scanned.
- The signature must be signed only by the applicant's Father/Mother and not by any other person.
- Maximum size 100 KB.
- Scanned signature format should be jpg/jpeg only.

4- Upload documents with following specifications.

- Applicant should upload only one document (mark sheet/certificate) black ink on a white paper and get the signature scanned.
- The signature must be signed only by the applicant and not by any other person.
- Maximum size 2 MB pdf.
- Scanned signature format should be jpg/jpeg only.

5- Create an email account if you already don't have one.

6- You must give a mobile number in basic details. If you don't have mobile number, Please enter your guardian's mobile number for any further correspondence in this regard.

7- All mandatory fields are marked with red colored asterix.

(B) Instructions for filling the ONLINE APPLICATION FORM

1. Click on “PG/UG/Ph.D./Certificate Diploma” to access the list of programs.
2. Choose the program and click on the program name.
3. Online Entrance Application form has following subsequent information
 - a) Personal Information
 - b) Education and Document Details
 - c) Application Summary
 - d) Payment
 - e) Submit Reference number and application form
4. Please fill the personal information first.
5. After filling the personal information click on save button at the last of the page.
6. System will generate the unique Registration number along with password. Applicants are advice to note the same.
7. The unique Registration number along with password will be send on the email and the entered mobile number. Note down the Registration number for all future references.
8. After that you can continue and fill other required information or logout and login again with unique Registration number along with password.
9. After that Click on “PG/UG/Ph.D./Certificate Diploma” and click on “Click here for Student Login”
10. Login with unique Registration number along with password and you will get all the earlier submitted information in personal information page.
11. Applicants are required to fill all information required in different sections like Education and Documents details.
12. Fill Education and document detail and upload related documents. Photo and signature uploaded should be as per specifications, kindly refer to section (A) at the starting of the document.

13. To save the data please click on 'Continue and Save' button at the bottom of each screen.

14. Step for making Application Fees Payment, you can pay the fees through online mode or by choosing Challan mode.

Payment through Challan

- a) If you select payment through **challan option**, you have to select bank and click on generate challan. After that you have to download the Challan and submit the same to the selected bank. Bank will give a reference number against the challan.
- b) Login again and submit your reference number under submit **reference number and application form** tab.

PAYMENT THROUGH

Online

- a) if you select online payment mode, click on make payment
- b) on the next page select your payment gateway
- c) Click on continue for payment
- d) Choose among the given options (debit card, credit card, net banking etc.)
- e) If the payment is successfully done, you will receive a success message with all the details
- f) Click on the Submit button to get the form finally submitted.

Note: *Before proceeding further please make sure that all the fields are filled in correctly in the confirmation screen before clicking the submit button.*

All the applicants are advised to read the Prospectus/Information Brochure of Computer Science Department, H.P. University, Shimla in pdf format available on www.hpuniv.ac.in, carefully and also ensure their eligibility in terms of the conditions/provisions mentioned in the information brochure.

Please read these instructions carefully before proceeding with the ONLINE filling of M. Tech. (Computer Science) Application Form .



KULGEET--- THE UNIVERSITY ANTHEM

Adorned with the holy Veda Mantras
The abode of the gods nestles the novel Nalanda
Himachal University
The jewel of myriad learning
Victory to you!

The land where deities abide, a hundred pilgrimages invite
The land of mountain culture where dance and song entice
The land where the Ravi-Vipasha-Chandrabhaga and
Sutlej weave a garland bright.

Rishi Mandavya's sacred land, is alive with learning and purity
Himachal University
The jewel of myriad learning
Victory to you!

As far as the eyes can behold, the glorious Dhauladhars unfold
The radiant rays of knowledge light up every hill and valley
As the feet sway to the Nati and lips sing the Chamba songs
The Goddess Sharada herself appears in incarnate form

Fearless with the mantra of Shastre cha Shastrey Kaushalam
Himachal University
The jewel of myriad learning
victory to you!

The ascetic deodar trees stand with equanimity
Reminiscent of the Buddha in their calm tranquility
The offer ceaselessly, missives of sweet amity
Himachal's supreme dignity, the seat of erudition—
Of Art and Science, Technology and Ability

Marching steadily on, like the risen sun of dawn
Himachal University
The jewel of myriad learning
Victory to you!