

Information Brochure

Master of Computer Applications (MCA-2016)

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 I.T. Industry
- Endeavour to provide I.T. based solutions to the society

Motto

To produce skilled professionals in computer applications



हिमाचल प्रदेश 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
विविध विद्यालय, जय जय !!

जहाँ तक रम्य धौलाधार पर्वत— श्रृंखला दिखतीं
वहाँ तक ज्ञान मधु रश्मियाँ नितफैलती रहतीं
थिरकते पाँव नाटी पर, लरजते गीत चम्बा के
स्वयं श्री शारदा साकार हो उठतीं उन्हें गाके

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

तपोरत देवदारु खड़े तथागत—सदृश हैं लगेते
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
विविध विद्यालय, जय जय !!



हिमाचल प्रदेश विश्वविद्यालय

समरहिल, शिमला-171005

आचार्य अरुण दिवाकर नाथ वाजपेयी
कुलपति

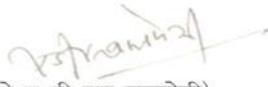
संदेश

मुझे यह जानकर हर्ष हो रहा है कि हिमाचल प्रदेश विश्वविद्यालय के कम्प्यूटर विज्ञान विभाग में शैक्षणिक सत्र 2016-17 में छंटनी परीक्षा के माध्यम से प्रवेश प्रक्रिया आरम्भ करने के लिए रूपरेखा बना ली है।

इस विश्वविद्यालय ने अपनी स्थापना के बाद कम्प्यूटर शिक्षा से सम्बन्धित शोध और विस्तार कार्य 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।

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।


(प्रो.ए.डी.एन.वाजपेयी)
कुलपति

हिमाचल प्रदेश विश्वविद्यालय, ज्ञानपथ, समरहिल,
शिमला-5
संदेश



मुझे यह जानकर प्रसन्नता हो रही है कि हिमाचल प्रदेश विश्वविद्यालय के कम्प्यूटर विज्ञान विभाग ने अगले शैक्षणिक में छंटनी परीक्षा के माध्यम से प्रवेश प्रक्रिया आरम्भ करने के लिए कार्ययोजना बना ली है।

वर्तमान समय में कम्प्यूटर शिक्षा में उच्चतर शिक्षा ने एक विशेष स्थान ग्रहण कर लिया है तथा कम्प्यूटर शिक्षा और कम्प्यूटर विज्ञान की जानकारी अत्यन्त आवश्यक इसलिए हो गई है कि दैनिक छोटे-छोटे कार्यों में भी इसकी उपयोगिता बहुत बढ़ गई है।

मुझे पूर्ण विश्वास है कि हिमाचल प्रदेश विश्वविद्यालय में कम्प्यूटर विज्ञान शिक्षा में उच्चतर शिक्षा ग्रहण करने के लिए पर्याप्त संसाधन एवं सुविधाएं उपलब्ध हैं।

मैं इस विश्वविद्यालय में शिक्षा ग्रहण करने के लिए आने वाले सभी छात्र-छात्राओं को अपनी शुभकामनायें देता हूँ।

Rajendra Singh Chauhan

(राजेन्द्र सिंह चौहान)

प्रति-कुलपति

From the Desk of Chairman



Dear Candidates,

I take pride in inviting you to be the member of the 27th batch of MCA in the Department. The Department has its own brand name in the academics as well as in the industry across the Globe. The extremely skillful, determined and value-educated set of Computer Science professional being produced by the Department is second to none in the world today. The students as well as the Department is being nurtured by a highly qualified faculty members; who are in the habit of taking any latest technological challenge head-on and delivering the best possible end results. All through, we have been striving hard to continuously provide our students the latest technological exposures by making them work on almost all the latest technological environments, giving them the complete understanding of the best theoretical concepts along with adequate practical exposure.

The field of Computer Science is growing exponentially and has started touching almost all the aspects of daily life. With the growing Indian economy, you as professionals-to-be definitely have a prominent constructive role to play in shaping the day-to-day life of tomorrow by the use of computing technology and concepts.

I am confident that your higher education journey through the Department of Computer Science will give you the richest experiences of your life. I am looking forward to welcome you in the Department.

(Prof. Manu Sood)

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1. ENTRANCE TEST FOR MASTER OF COMPUTER APPLICATION (MCA) 2016 BATCH

for the admission to Department of Computer Science, (H P U Shimla), Regional Centre Dharmshala, Government/Private Colleges affiliated to H. P. University, Shimla-171005.

2. ADMISSION SCHEDULE :

(A) Last Date:

Last date for the submission of application forms in the office of *The Chairman, Department of Computer Science, H P University, Summer Hill Shimla-5* is:

Date	Day	Time
25-04-2016	Monday	5:00 pm

(B) Date of uploading Admit Card:

Date	Day	Time
10-05-2016	Tuesday	5:00 pm

(C) Date of Entrance Test:

Date	Day	Time
20-05-2016	Friday	2:00 PM to 4:00 PM

(D) Date of declaration of result:

Date	Day
15-06-2016	Wednesday

(E) The schedule for counselling to Subsidized Seats for Department of Computer Science, HPU Shimla Campus:

Date of Interview/ Admission	Day	Time for reporting for interview in the office of the Dept
01-07-2016	Friday	10:00 A.M.

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://hpucs.ac.in> or <http://hpuniv.nic.in> and notice board of the Department. No separate intimation in this regard shall be sent to the candidates.
- iii) Last date for Admission against the vacant/vacated Seats (if any)

Date	Day
21-07-2016	Thursday

- iv) Admission with the permission of the Vice-chancellor, the dead line for closing admission even, if seat remain vacant for MCA course (for both subsidized and non-subsidized)

Date	Day
06-08-2016	Saturday

(F) The schedule for counselling to Non-Subsidized Seats for Department of Computer Science, HPU Shimla Campus:

Date of Interview/ Admission	Day	Time for reporting for interview in the office of the Dept.
11-07-2016	Monday	10:00 A.M. to 2:00 PM

(G) The schedule for counselling to Regional Centre Dharmshala/Government/ Private Colleges Affiliated to H.P. University will be held in the department of Computer Science, H.P.University, Shimla-5 on following dates:

Date of Interview/ Admission	Day	Time for reporting	
		From	To
22-07-2016	Friday	10:00 A.M.	2:00 P.M.
25-07-2016	Monday	10:00 A.M.	2:00 P.M.
28-07-2016	Thursday	10:00 A.M.	2:00 P.M.
01-08-2016	Monday	10:00 A.M.	2:00 P.M.
04-08-2016	Thursday	10:00 A.M.	2:00 P.M.
06-08-2016	Saturday	10:00 A.M.	2:00 P.M.

3 INSTRUCTIONS FOR FILLING ONLINE APPLICATION FORM FOR MCA-2016

(This application is compatible with Internet Explorer 7 or above, Google Chrome & Mozilla Firefox.)

All the applicants are advised to read the Prospectus/information brochure of Computer Science Department, H.P. University, Shimla-171 005 in pdf format available on www.hpucs.ac.in or www.hpuniv.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 MCA Entrance Application Form 2016.

ELIGIBILITY

Bachelor's degree in any discipline with at least 50% marks (45% in case of SC/ST) from a University established by law in India, with Mathematics at +2 level

OR

BCA/B. Sc. (IT)/ B. Sc. (Computer Science)/any graduate with computers as one of the subject in all the three years of graduation with at least 50% marks (45% in case of SC/ST) from a University established by law in India.

Age Limit:

Maximum age limit for admission to MCA course is **26 years for general category, 29 years for SC/ST category and 28 years for girl candidates**, as on the 1st July of the year concerned. The Vice-Chancellor may permit age relaxation up to a maximum of six months.

STUDENT INTAKE

Total seats

Subsidized seats:	30 + 01 (Reserved for single Child who is a girl)
Non-Subsidized seats:	90
Wards of H.P.University Employee	03
Total seats in MCA Course:	120+01+3

Duration of the course: 3 Years (6 Semesters)

RESERVATION FOR MCA

I. Subsidized Seats

(a) (i) 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.

(ii) 3% of the seats shall be reserved for Physically Handicaped candidates who are Himachal Pradesh Domicile

(b) The remaining seats shall be filled as under

(i) 25% seats shall be open to 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 and 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.

(iii) 3% of the seats shall be reserved for Physically Handicaped candidates who are Himachal Pradesh Domicile. The Registrar, H.P. University, Shimla vide letter/notification No. 4-16/2012HPU(Acad.) dated 2.1.2013 has conveyed the decision of Executive Council of its meeting held on 17.9.2012 taken vide Any Other Item adopted the H.P. State Govt.'s Instructions/Rules that no tuition fee be charged from the students with 40% and above disability. The student with special needs with more than 40% disability, admitted in any course of study running in the Himachal Pradesh University, Shimla will not be charged

any fees with effect from the current academic session 2015-16 vide notification No. 4-51/2015 HPU(Acad) dated 25 July 2015

- (c) One supernumerary seat shall be reserved for Himachali bonafide only/single child who is a girl. In this respect, an affidavit issued by a competent authority shall have to be submitted by the candidate at the time of counseling.
- (d) Three supernumerary seats shall be reserved for wards of H.P. University Employees.

Breakup of Subsidized seats as per roster for Academic Session (2016-2019) on 120 points basis.

1	Open to all	06
2	HPU General	17
3	SC	04
4	ST	02
5	PH	01
6	SGC	01
Total Seats		30+01

II) Non-Subsidized seats:

- (i) The eligibility for admission to the Courses against these seats will be the same as provided for other candidates.
- (ii) The admission to these seats will be made on the merit of marks obtained in the Entrance Test.
- (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 to 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 and 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.
- (iii) No of seats 90.

Breakup of Non-Subsidized seats as per roster for Academic Session (2016-2019) on 120 points basis.

1	Open to all	18
2	HPU General	53
3	SC	13
4	ST	06
5	Wards of H.P.University Employee	03
Total Seats		90+3

6.5 FEES TO BE PAID

Subsidized and Non-Subsidized (Both) Seats:

As per University rules, the detail of **Annual fees** to be charged from the MCA students every **July** of the year concerned.

Subsidized Fee			Non Subsidized Fee	Mode of Payment
Year	Boys	Girls	Boys/Girls	Shall be Deposited in cash in the office of the Department of Computer Science, H.P. University, Shimla-5
1 st year	9130.00	6730.00	9130.00	
2 nd Year	8380.00	5980.00	8380.00	
3 rd Year	8380.00	5980.00	8380.00	

In additions to above following dues also be deposited by the students as under:

Under Subsidized Seat		Under Non Subsidized seat	Mode of payment
Year	Boys/Girls	Boys/Girls	Shall be deposited in the Departmental Bank Account after getting the admission slip from the office of the Department of Computer Science.
1 st year	3000.00	53000.00	
2 nd Year	3000.00	53000.00	
3 rd Year	3000.00	53000.00	

FEE ONCE DEPOSITED SHALL NOT BE REFUNDED IN ANY CASE.

HIMACHAL PRADESH UNIVERSITY REGIONAL CENTRE DHARMSHALA

30 Seats+01 (single girl child) seat are proposed to be filled at Himachal Pradesh University Regional Centre Dharmshala under self-financing scheme i.e. non-subsidized seats. The fee will be as charged from non-subsidized seats from MCA students as per University rules as given above at 6.5. The reservation roster of 120 points will be followed as given at 6.5.

Basis of Admission

The admission to MCA course will be made on the basis of merit of the Entrance Examination (written test) conducted by H.P. University.

The written test will consist of one paper of 130 marks and of 2 hours duration and shall include the following four sections:

Section	Contents	Marks
A	General logical ability & aptitude	40
B	Mathematics of +2 level	50
C	Basics of Computers and its Awareness	25
D	General English	15
	Total	130

The minimum qualifying marks in the Entrance Examination (written test) for subsidized as well as non-subsidized seats will be 35% i.e. 46 marks out of total of 130 marks & no minimum qualifying marks limit in case of SC/ST

CENTRES FOR THE ENTRANCE TEST

The Entrance Test for admission to the MCA course shall be held at the following centres:

- a) H.P. University Campus, Summer Hill, Shimla
- b) Government College, Mandi
- c) Government College, Hamirpur
- d) H.P. University Regional Centre, Dharamshala, Kangra

The University reserves the right to allot any examination centre to the candidate irrespective of the choice given by the candidate.

Important Dates:

1. Online filling up of MCA Entrance Application form commences from: **26.03.2016**
2. Last date for filling up the ONLINE MCA Entrance Application Form: **25.04.2016**
3. Last date for submitting the hard copy of MCA Entrance Application Form in the office of Computer Science Department by post (*through registered post only*) or by hand is: **30.04.2016.**
4. Admit Cards download begins on www.hpucs.ac.in, www.hpuniv.in with effect from : **10.05.2016**
5. Date of Entrance Examination: **20.05.2016.**

Important Steps

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

(i) **Scanned copy of applicant's recent photograph with following specifications.**

- Photograph must be a passport size color picture.
- Photograph must be taken in full face view directly facing the camera.
- Photograph should have no shadows and red eyes.
- Maximum size **50 KB.**
- Photo format should be jpg. only.

(ii) **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 **30 Kb.**
- Scanned signature format should be jpg. only.

(B) Create an email account if you already don't have one.

(C) 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.

(D) **Instructions for filling the ONLINE APPLICATION FORM FOR MCA 2016:**

1. Click on “**Register Now**” to create a new account. Once the new account is created online system *will generate the unique application form number*. Applicants are advised to *note down the application form number for all future references*.
2. After account creation, click **login** to complete the Entrance Examination application online. Online Entrance Application form has following subsequent information.
 - Basic Details Form
 - Upload Photo & Signature Form
 - Fees Payment Form
 - Payment Details Form
 - Filled Form View Page Confirmation Button.
 - Filled Form Downloaded Page.
3. Applicants are required to fill their information in above mentioned web pages. All mandatory fields are marked with red star.
4. Upload photo and signature. Photo and signature uploaded should be as per specifications and size listed in step (A).
5. To save the data please click on ‘**Continue and Save**’ button at the bottom of each screen before proceeding further.

6. Steps for making Application Fees Payment

- a) Once you click on **Fees Payment Button** new window of **SBI-Collect** will open on your screen in which you have to complete the following steps for making the payment:

Step 1

- a) State of Corporate/ Institution : <Select> **Himachal Pradesh**
- b) Type of Corporate/Institution: <Select> **Educational Institution**
Then click on **Go** button

Step 2

- a) Educational Institution Name: <Select> **DEPTT.OF COMP. SCIENCE
HPU Science**
Then click on **Submit** button

Step 3

- a) Select Payment Category: <Select> **MCA Entrance Exam Fee-2016
(General/PH)
MCA Entrance Exam Fee-2016
(SC/ST/IRDP/ANTODAYA)**

Step 4

Enter all the details of payment as per the fields given on the screen, all these fields are mandatory to fill for making the Application fee payment. Then press the **Submit** button.

Step 5

Once you **Confirm** the ‘payment details’, a new window will appear on your screen in which three modes of payment are there i.e. 1) **Net Banking** 2) **Card Payment** (By Using Debit/Credit Card) 3) **Other Payment modes** in which Challan is generated and the applicant has to take the print out of that Challan to the nearest SBI Branch for depositing the Cash. After depositing the Cash, the bank will issue the receipt/ Journal No. on the Challan. In case of Net Banking and Card Payment, e-receipt will be generated. Then applicants are directed to take print out of that e-receipt for completing the application form and retained for his/her record purpose also.

7. After depositing the fee in the bank, re-login to your account, at least after 8 hours to enter payment details, i.e. e-receipt/ Journal number as provided by the bank at the time of depositing the fee, in **Payment details page**.
8. Click on **Save & Continue** to see your filled application details on the computer, before proceeding further please make sure that all the fields are filled in correctly in the confirmation screen before clicking the **Submit** Button. **Once you click on the Submit button of your application page, you cannot Edit/Change the details entered.**
9. After clicking on **Submit button** new window will appear on the Screen displaying full details of the applicant which you have entered in the application form. Take the print out of the same page and **attach the photocopy of payment receipt along with the application form** and after getting it signed by parent/guardian in original send it by registered post with the quote on the envelope “**Application for MCA Entrance Test, 2016**” at following address:

**O/o The Chairman,
Computer Science Department,
H.P. University, Gyan Path, Summer Hill, Shimla – 171 005
(H.P.)**

Important Notes:

- **Do not make any changes with the pen on the details printed on the print out of your application form; otherwise your application form will be rejected straightforward.**
- **Before sending the form to the Computer Science Department, the applicant should make sure that Parent/Guardian has countersigned the application form in original on space provided in the application form.**
- **For any queries please contact- 0177-2832569**

**INFORMATION TO BE FILLED UP IN THE ONLINE APPLICATION FORM
FOR ENTRY INTO MCA 1st YEAR**

GENERAL INSTRUCTIONS:

NAME OF THE CANDIDATE: Write your name in capital letters as given in matriculation certificate.

FATHER'S NAME: Write the name of your father as given in matriculation certificate.

MOTHER'S NAME: Write the name of your mother as given in matriculation certificate.

NATIONALITY: Select appropriate option, whichever is applicable to you.

DATE OF BIRTH: Select the date, month and year of your birth as per the English calendar and as recorded in your 10th/High School Board Examination Certificate.

GENDER: Select appropriate option, whichever is applicable to you.

CATEGORY: Select appropriate option out of these four categories, whichever is applicable to you.

QUALIFYING EXAM PASSED FROM a) HPU b) Non-HPU

Aadhar no: write your Aadhar No

PHONE NUMBER: Write your phone number (preferably mobile no), if any, on which you can be contacted or a message can be left in case of exigency.

EXAMINATION CENTRE PREFERENCE: Select appropriate option as per your choice. An examination center may be discontinued due to poor response, operational difficulties or any reason whatsoever. Candidates may not necessarily be allotted a particular city/town as examination center of their choice.

Select appropriate option, whichever is applicable to you.

SINGLE GIRL CHILD (only child of parents, that too a girl): Select Yes or No, whichever is applicable to you.

WARD OF H.P. UNIVERSITY EMPLOYEE: Select Yes or No, whichever is applicable to you.

DECLARATION BY THE CANDIDATE: The candidate must sign this declaration with the digital signatures (for which you simply need to upload your scanned signature at the moment when asked to do so).

Last date of online submission:

Important Notes: Fee once deposited or received will not be refunded. No application form will be entertained after the last date i.e. **25.04.2016**.

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 MCA course. The candidate has to submit duly attested copies of the following certificates at the time of attending the counselling/interview:

- a) Proof of Age (Matriculation/ 10th class certificate)
- b) 10+2 certificate
- c) Graduation certificate having certificates of all semesters/ years.
- d) Category certificate i.e. SC/ST/IPDP/Antodaya, if applicable
- e) Single girl child affidavit, if applicable
- f) H.P. Bonafide certificate in case of SC/ST candidates
- g) Certificate of Physical handicap.

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. The University will not be responsible for any postal delay for non-receipt or in case of misplacement or loss of application form in transit. All disputes are subject to legal jurisdiction of courts in Shimla only.

4 HIMACHAL PRADESH UNIVERSITY

The Himachal Pradesh University, named after the state of Himachal Pradesh, was founded on 22nd July, 1970. The University is located at Summer Hill, a suburb of Shimla at its western end, at a distance of about 4 km from the main town. The Railway Station, Summer Hill is around 5 minutes walk from the campus. Summer Hill as a place is well connected through rail, road and air. The airport located at a place called Jubbarhatti is about 20 km from this place. This University is catering to the academics and research needs of students in the areas covering Computer Science, Physical Sciences, Bio-Sciences, Social Sciences, Commerce, Management Studies, Education, Law, Languages, and Performing Arts & Physical Education etc. All the colleges in the territorial jurisdiction of Himachal Pradesh are affiliated to this University.

Besides, this University runs an evening college, especially for the employees of recognized establishments and University College of Business Studies, for running bachelor degree courses in Computer Applications and Business Administration. The Himachal Pradesh University occupies an area of about 200 acres and has a distinctive style of architecture. The artistically designed buildings house various teaching departments, well-equipped laboratories and a huge library. Besides the residential accommodation for the teaching and non teaching staff, the University has a Faculty House for lodging & boarding distinguished guests and visitors, six numbers of hostels for girls and seven numbers of hostels for boys. The University is also managing a Health Center within its campus. The University has a large auditorium with 750 seats

for holding important university functions and ceremonies, a good cafeteria, recreational facilities, banking facilities with 24X7 ATM facilities and a cyber café.

5 DEPARTMENT OF COMPUTER SCIENCE

In order to impart knowledge and training to students in the state-of-the-art and state-of-the-practice computer applications, the Department of Computer Science was established in the year 1987. The vision was to produce professional leaders, in the field of software development and research who shall enhance the technological strength of the region and the country. It is being achieved through the development of the technical as well as theoretical skills of the students through regular conventional and non-conventional teaching modes and through rigorous hands on practical training sessions. The Department provides the facilities suited for the development of skills and the team spirit among the students, inculcated in the given environment through seminars, group discussions, assignments, class tests, quizzes and design & development of dummy as well as real-time projects in the class rooms and laboratories. Keeping with the pace of the industry and R&D requirements so as to cater to the needs of the society, the department has been regularly updating its curricula from time to time. The latest thorough overhauling of all the curricula by the Department was affected as recently as in 2009 and 2010.

At its inception, the department started a **Certificate Course in the Programming (CCP)** along with **Diploma in Computer Applications (DCA)** in the year 1987. Later on, in the year 1992, the DCA was replaced by **Post Graduate Diploma in Computer Applications (PGDCA)**. The year 1990 brought in a new era for computer professionals in the history of the state with the launch of **Master of Computer Applications (MCA)**, a highly professional, Master's Degree programme. This academic/ professional program aims at imparting theoretical and practical training in the area of Computer Science and its applications. MCA is a full time three-year professional course spread over six semesters and also includes a one full semester industrial training. The curricula of MCA program has been designed with the objective of identifying, developing and sharpening of analytical and computational skills of the students. Providing different working platforms as per the ever changing requirements of the industry further enriches the knowledge of the students.

Since 2006, the Department has also started running a full time 2 year **Master of Technology (Computer Science)** i.e. **M. Tech. (CS)** programme spread over 4 semesters. The course is aimed at, in addition to other objectives, bridging the gap between the academic and professional requirements of the society at large. The curricula for this programmes matches the best in the country and has also been thoroughly updated recently in 2010. The whole of the fourth semester of this programme is dedicated to a dissertation work where each student is required to work on some contemporary research problem related to different areas of computer science, technology or their applications. The emphasis is on surveying the related literature, envisioning the problem domains and suggestions on the solution domains for one more problem domains. The latest and the ultimate feather added to the academic history of the Department was the starting of the **Doctor of Philosophy (Ph.D.)** program in 2007. This programme lays specific emphasis on fulfilling the academic needs of researchers of the region in general and the teaching community in particular. In this programme, the students work on different problems related to the fields of computer science, technology or their applications under the able and expert guidance of the teachers of the Department.

Dress code for students of Computer Science Department is being followed.

Location:

The Department of Computer Science is housed in the ground floor of Netaji Subhash Chander Bose Bhawan in the main campus of Himachal Pradesh University, Shimla. The area occupied by the Department is approximately 470 square meters.

6 ACADEMIC PROGRAMS

The major academic programs currently being run successfully by the department are:

- MCA program since 1990
- M. Tech. (Computer Science) since 2006
- Ph.D. program since 2007.

6.1 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.

Faculty

S. No.	Name	Qualification	With us since	Total Experience
1	Dr. Manu Sood, Professor, Chairman	B.E., M. Tech. , Ph.D.	1993	23 Years in academic & 5 years in industry
2	Dr. Arvind Kalia, Professor	MCA, Ph.D.	1989	27 Years
3	Dr. A.J. Singh, Professor	B. Tech., M. Sc., Ph.D.	1992	24 Years
4	Dr. K.L. Bansal, Professor	MCA, Ph.D.	1995	21 Years
5	Dr. Aman Kumar Sharma, Professor	MCA.,Ph.D.	1997	19 Years
6	Sh. Jawahar Thakur, Associate Professor	B. Tech., M. Tech.	1997	19Years
7	Dr. Anita Ganpati, Associate Professor	MCA, M. Tech.,Ph.D.	2001	15 Years

Technical staff

S. No.	Name	Designation
1	Mr. Syed Waji Hassan	Lab. Technician
2	Mr. Vijay Kumar	Lab. Attendant
3	Mr. Manjit Anand	Lab. Attendant

Supporting Staff

S. No.	Name	Designation
1	Mr M. C. Negi	Sr. Asstt.
2	Mr. Govind Ram	Clerk
3	Mr. Dina Nath	Peon
4	Mr. Sunny Kumar	Peon cum Frash

LIBRARY

The Computer Science Section of the Central Library is well equipped with approximately 4500 text and reference books on different topics pertaining to courses curricula and related subjects. The library also subscribes to 07 numbers of national & International Journals of repute in the field of computer science and applications. In addition to this central library, a library has also been established in the department that caters to the specific needs of the students of the department. This library contains approximately 500 books on various subjects of interest.

COMPUTER LABORATORY

To provide a rich hands-on experience to the students, three numbers of state-of-the art computer laboratories housing around 100 computers have been established. All the latest softwares and different platforms are being provided to the students for hands-on practice in order to ensure good openings for them in the industry as well as in other sectors. The Labs have high speed LAN connected nodes & servers, internet connection through the Campus-wide Optical Fiber Wide Area Network & latest softwares as per the need of the syllabi of various courses being run. The facilities (hardware, software etc) in all the labs are upgraded regularly in order to match the needs of the industry.

LECTURE HALLS

The lecture halls are well equipped with latest communication and multi media equipment such as overhead LCD Projectors, Internet access points and provision for power backups.

6.2 MASTER OF COMPUTER APPLICATIONS

Total seats

Subsidized seats:	30 + 01 (Reserved for single Child who is a girl)
Non-Subsidized seats:	90
Wards of H.P.University Employee	03
Total seats in MCA Course:	120+01

Duration of the course: 3 Years (6 Semesters)

6.3 COUNSELLING

The counselling shall be held in the H.P. University campus for admission to the MCA course 2015. The candidates are required to check the website of the Department (www.hpucs.ac.in) or <http://hpuniv.nic.in> for the results, merit list and counselling schedules. No separate result cards and intimation regarding counselling shall be sent to the candidates. The counselling shall be held strictly as per the duly published counselling schedule posted on the website. The candidate has to attend the counselling in person along with all the original testimonials such as Date of Birth (DOB) proof, 10+2, graduation, bonafide resident, proof of only child who is a girl, proof of category etc.

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 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 fulfill minimum eligibility conditions, provided that the Vice-Chancellor shall have the power to permit age relaxation for reasons to be recorded in writing up to a maximum of 6 months. Provided further that age bar shall not apply in the case of in-service students and the State Govt. / Govt. of India nominees. 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.

6.4 SCHEME OF EXAMINATION IN MCA

English shall be the medium of instruction and examination. The pass marks shall be 40% in each written paper and in the internal assessment separately, and 40% in viva-voce, project work and semester course and 50% in the aggregate subject to the conditions that aggregate shall be determined at the end of the examination. Other rules shall be as per the rules of the university.

a) Theory Papers

Each paper will be of 100 marks (75 marks for theory exam and 25 marks for internal assessment) and duration of each paper will be 3 hours. In each theory paper, nine questions are to be set. Two questions are to set from each Unit and candidate is required to attempt at least 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.

b) Practical Examination

Max. Marks: 100 (50 marks for practical and 50 marks for internal assessment).

Duration: 3 hours.

Conduct: Practical exam will be conducted by the external examiner from the panel proposed by the Chairman, Department of Computer Science, Himachal Pradesh University, Shimla and duly approved by the concerned authorities of the Himachal Pradesh University, Shimla.

c) Project Work:

In 3rd year (sixth semester) the student has to develop one project, which will be evaluated by the external examiner from the panel submitted by Chairman, Department of Computer Science, Himachal Pradesh University, and duly approved by the university authority/evaluation branch, Himachal Pradesh University, Shimla on the following basis:

System Development Project

System Design	100 Marks
Log Book and Interim Report	100 Marks
Seminars (2)	100 Marks

Project Report (4 Copies)	200 Marks
Viva-Voce	100 marks
Total	600 Marks

A fee of Rs 500/- shall be charged at the final of submission of Project Report(Project Report submission fee)

In respect of theory papers 25 marks in each paper shall be reserved for award of internal assessment based on such work as assignments/practical/periodical tests/quiz etc.

In respect of practical papers, 50 marks shall be reserved for internal assessment in similar manner.

The marks awarded by the teacher on account of internal assessment in relation to theory/practical paper as mentioned above shall be submitted to the office of Chairman.

In sixth semester, the Chairman/Head of the Department will assign a guide/supervisor, to each candidate for his/her project work. The candidate shall be required to maintain his/her project diary (logbook) of work in the organization. Each student will be required to give at least two seminars on his/her project work. Each student is required to submit three copies of his/her project reports in the Department after completion of the project work which will be evaluated by external examiner.

d) Curriculum Schema:

S. No	Course No.	Paper	Lecture Hrs/ week	Tutorials Hrs/ week	Univ. Exam Marks	Internal Assessment
First Year						
Semester 1						
1	MCA-101	Programming Methodologies Using C	3	1	75	25
2	MCA-102	Digital Organization	3	1	75	25
3	MCA-103	Introduction to Organizational Structure & Personnel Management	3	1	75	25
4	MCA-104	PC Packages	3	1	75	25
5	MCA-105	Effective Communication Skills	3	1	75	25
6	MCA-106	Practical-1(C-Language)	6	-	50	50
7	MCA-107	Practical-2(PC Packages)	6	-	50	50
Semester 2						
1	MCA-201	Data Structures	3	1	75	25
2	MCA-202	Computer Architecture	3	1	75	25
3	MCA-203	Programming in Visual Basic	3	1	75	25
4	MCA-204	Discrete Mathematics	3	1	75	25
5	MCA-205	Accounting & Financial Management	3	1	75	25
6	MCA-206	Practical-3(Data Structure)	6	-	50	50
7	MCA-207	Practical-4(Visual Basic)	6	-	50	50

S. No	Course No.	Paper	Lecture Hrs/week	Tutorial Hrs/week	Univ. Exam Marks	Internal Assessment
Second Year						
Semester 3						
1	MCA-301	Operating System	3	1	75	25
2	MCA-302	Data Communication & Computer Networks	3	1	75	25
3	MCA-303	Data Base Management System	3	1	75	25
4	MCA-304	Software Engineering	3	1	75	25
5	MCA-305	Object Oriented Programming Using JAVA	3	1	75	25
6	MCA-306	Practical-5(DBMS)	6	-	50	50
7	MCA-307	Practical-6(JAVA)	6	-	50	50
Semester 4						
1	MCA-401	Programming Using C#	3	1	75	25
2	MCA-402	.NET Technology	3	1	75	25
3	MCA-403	Computer Oriented Optimization Methods	3	1	75	25
4	MCA-404	Internet Technologies & Web Page Designing	3	1	75	25
5	MCA-E05	Elective – I	3	1	75	25
6	MCA-405	Practical – 7 (C#)	6	-	50	50
7	MCA-406	Practical – 8 (Internet Technologies & Web page design)	6	-	50	50

S. No	Course No.	Paper	Lecture Hrs/week	Tutorial Hrs/week	Univ. Exam Marks	Internal Assessment
Third Year						
Semester 5						
1	MCA-501	Data Warehouse & Mining	3	1	75	25
2	MCA-502	Computer Graphics	3	1	75	25
3	MCA-503	Fundamentals of Computer Algorithms	3	1	75	25
4	MCA-E04	Elective – II	3	1	75	25
5	MCA-E01	Elective – III	3	1	75	25
	MCA-504	Practical-9 (Computer Graphics)	6	-	50	50
	MCA-505	Practical-10 (FOCA)	6	-	50	50

Course No.	Paper	Univ. Exam Marks
Semester – 6		
MCA-601	System Development Project	
(a)	System Design	100
(b)	Log Book and Interim Report	100

(c)	Seminars (2)	100
(d)	Project Report (4 Copies)	200
(e)	Viva-Voce	100

ELECTIVES		
S. No	Course	Paper
1	MCA-E01	Artificial Intelligence & Expert Systems
2	MCA-E02	Software Quality and Testing
3	MCA-E03	Automata Theory & Compiler Design
4	MCA-E04	Cyber Law
5	MCA-E05	Distributed Data Base Management System
6	MCA-E06	Management of Software Projects
7	MCA-E07	Open Source Software
8	MCA-E08	Image Processing
9	MCA-E09	Distributed Systems
10	MCA-E10	Object-Oriented Software Engineering
11	MCA-E11	Simulation and Modeling

6.5 PLACEMENT CELL

The placement efforts under a faculty member is being done to liaison among the students and perspective employers and to keep a watchful eye on the emerging trends and future needs of the industry. The Multinational/ National Companies have been visiting the department for placements and to impart training to the students since the inception of the course. The on campus interviews are conducted by the companies based on the requirements of their respective firms. Nearly all the students of the department get placed each year.

7 OFFICERS OF THE UNIVERSITY

S. No.	Name	Designation	Telephone No.
1.	His Excellency Acharya Devvrat	Chancellor	0177-2624152, 53, 54
2.	Prof. A. D. N. Bajpai	Vice Chancellor	0177-2831363
3.	Prof. Girija Sharma	Dean of Studies	0177-2830922
4.	Prof. Manu Sood	Chairman	0177-2832569
5.	Prof. Sanjeev Kumar Mahajan	Dean Students Welfare	0177-2830926
6.	Prof. (Mrs) Veena Sharma	Chief Warden	0177-2830917
7.	Dr. Pankaj Lalit	Registrar	0177-2830912
8.	Shri Diwakar Kamal	Finance Officer	0177-2830913
9.	Prof. Shyam Lal Kausal	Controller of Exams	0177-2830911

8 TEACHING/ EXAMINATION/ VACATION SCHEDULE

The following schedule shall be followed for the academics in the MCA course for the session 2016-2017 in the Department of Computer Science, H.P. University, Shimla:

Regular Teaching			
(i)	I Semester	12-07-2016	12-11-2016
(ii)	III / V Semester	01-07-2016	12-11-2016
(iii)	II / IV/ VI Semester	20-02-2017	27-05-2017
Preparation Days for Exams			
(i)	Winter	13-11-2016	22-11-2016
(ii)	Summer	29-05-2017	05-06-2017
Examination Schedule (Tentative)			
(i)	Examination of Semesters I/ III/ V	23-11-2016	31-12-2016
(ii)	Examination of Semesters II/ IV/ VI	03-06-2017	30-06-2017
Vacation Schedule			
(i)	Winter Vacation	01-01-2017	19-02-2017
(ii)	Summer Vacation	20-06-2017	25-06-2017

Attendance:

In order to be eligible to appear in the University examinations a candidate should have secured 75% attendance in each of the concerned courses in theory as well as practical.

Ragging is Banned in H.P. University & Affiliated Colleges

Hon'ble Supreme Court of India wide its judgment/orders dated 4th may 2001, 16th may 2007 and 11th Feb 2009 have outlined various steps which have been adopted by H.P. University so as to eliminate the ragging.

1. Ragging is banned in H.P. University and any one indulging in Ragging is likely to be punished appropriately. Which punishment includes imprisonment, fine or both, expulsion from the institution, suspension from the institution or classes for a limited period or fined with apology. The punishment may also take the shape of
 - (i) Withholding scholarship or other benefit
 - (ii) Debarring from representation in events
 - (iii) Withholding of results
 - (iv) Suspension or expulsion from hostels or mess or the like
2. In case the student seeking admission is found to have indulged in ragging in the past or if it is noticed latter that he has indulged in ragging, admission may be refused or he shell be expelled from the H.P. University.

9 LIST OF AFFILIATED COLLEGES:

9.1. Govt. Post Graduate College Dharamshala (H.P.)

9.2. K.L.B.D.A.V GIRLS COLLEGE FOR TECHNOLOGY, PALAMPUR

9.3. HP INSTITUTE OF MANAGEMENT STUDIES, AIRPORT ROAD, TOTU, SHIMLA



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
They 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!