

# **INFORMATION BROCHURE**

## **Master of Computer Applications**

**GOVT. COLLEGE CHAMBA**  
**Affiliated to**  
**HIMACHAL PRADESH UNIVERSITY**

**(MCA-2025)**  
**Session/Batch 2025-2027**

**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.***

***From Principal cum Director Desk***

Education stands as the most potent tool for transforming society. Here at Govt. College Chamba, we are committed to delivering top-tier education that inspires and empowers our students to become lifelong learners and valuable contributors to society. Our institution emphasizes both academic pursuits and extracurricular activities, striking a balance that nurtures well-rounded individuals. With a faculty comprising seasoned experts and dynamic educators, we boast a formidable academic backbone. Our dedicated and highly qualified instructors foster an environment conducive to research and critical thinking in the classroom. GC Chamba doesn't solely concentrate on academic course work encompassing Arts, Science, and Commerce; it also plays a pivotal role in fostering personal growth and confidence-building among students. The cornerstone of a reputable institution lies in its highly qualified and dedicated faculty, alongside excellent infrastructure, a well-stocked and up-to-date library, world-class sports facilities, innovative teaching methodologies, and a robust career guidance and placement cell—all of which are readily available at our college. Additionally, the college emphasizes skill-based education through the introduction of self-financed courses such as BCA, BBA, PGDCA, MBA, MCA and regular Courses like B.Voc. in hospitality & Tourism and Retail Management.

The broad objective of the MCA programme is to prepare graduate students for productive careers in software industry and academia by providing an outstanding environment for teaching and research in the core and emerging areas of the discipline. The programme's thrust is on giving the students a thorough and sound background in theoretical and application-oriented courses relevant to the latest computer software development. The programme emphasizes the application of software technology to solve mathematical, computing, communications / networking and commercial problems.

I am honored to extend a warm welcome to students, inviting them into an environment where they can fully explore and realize their potential and talents. The learning journey offered here not only enriches students but also empowers them to contribute meaningfully to the betterment and upliftment of the Society.



**Dr. Madan Guleria**

M.COM. MBA, M.Phil.(Commerce), Ph.D.

Principal cum Director

### ***From the Desk of the Coordinator***

Dear Candidates, I take pride in inviting you to be the member of the 2001-2004 batch of B.Sc. in the Institution. You are also welcome in 1<sup>st</sup> Batch of MCA in the Institution. The Institution has its own brand name in the academics as well as in the industry across the Globe. 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. 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. Human society has passed through 'green revolution', 'industrial revolution' and 'information revolution'. Now it is entering into 'knowledge revolution'. Education in general and 'computer education' in particular is gaining utmost importance in today's knowledge society. Computer skills have become the life skills for everybody. For high productivity and better quality, many business houses, Government departments and industries are making extensive use of computers. Extensive manpower is required to handle and operate these computers. Thus, there is pressing demand of computer professionals to work at various levels in Computer science and Information Technology (IT) industries. Highly skilled software professionals are required for nation building. They design and develop software products and systems. They are helpful in providing IT and IT-enabled services. They carry out overseas projects and earn huge amounts of foreign exchange for the country. They become entrepreneurs and establish IT industries, which provide employment for a large number of people. 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.



**(Dr. Chaman Singh)**

MCA, UGC-NET (JRF), Ph.D. in CS (HPU)

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<b><u>IMPORTANT DATES</u></b>		
<b>Online Registration Started from :-</b> 23 <sup>rd</sup> July 2025 to 05 <sup>th</sup> August 2025		
<b>Physical Counseling :-</b> 6 <sup>th</sup> August 2025 to 7 <sup>th</sup> August 2025		
<b>Display 1<sup>st</sup> Merit List:-</b> 8 <sup>th</sup> August 2025 at 3pm		
<b>Fee Deposit up to :-</b> 10 <sup>th</sup> August 2025		
<b>Display 2<sup>nd</sup> Merit List</b> 11 <sup>st</sup> August 2025		
<b>Fee Deposit up to :-</b> 14 <sup>th</sup> August 2025		
<b>Commencing of Classes :-</b> 19 <sup>th</sup> August 2025		



## **ABOUT THE COLLEGE**

Government Degree College Chamba, established on 15th May 1958 by the Government of Himachal Pradesh, is a premier institution located in the picturesque and culturally rich Chamba town. Initially set up in the historic Akhand Chandi Palace, the college now functions from two campuses — the first campus in the heart of Chamba town and the second campus at Sultanpur, which serves as the administrative and main academic unit. The college is affiliated with Himachal Pradesh University, Shimla and is recognized under sections 2(f) and 12(B) of the UGC Act, 1956. It was re-accredited with a Grade "B++" by NAAC in 2022 and is fully financed by the Government of Himachal Pradesh and UGC. The institution has adopted the Choice Based Credit System (CBCS) for undergraduate courses since 2013-14 under RUSA and yearly system in 2018-19.

### **New Initiatives: MCA Program**

Starting from the academic session 2025-26, the college is introducing Master of Computer Applications (MCA) under self-financed mode, affiliated with Himachal Pradesh University, Shimla. The MCA program aims to equip students with Computer & IT skills, strategic thinking, and Software industry-ready capabilities. The program is approved by AICTE, ensuring high standards and national-level recognition.

### **Academic Infrastructure and Facilities**

- **Faculty & Students:** 65 experienced faculty members and over 4200 students enrolled across UG and PG programs (2024-25).
- **Courses Offered:** UG in Arts, Science, Commerce, B.Voc. BCA, BBA; PG in 7 subjects including Commerce and Humanities, MBA and MCA.
- **ICT & Smart Classrooms:** Dedicated ICT labs, language lab, high-speed internet, smart classrooms, and modern teaching aids.
- **Library:** Two semi-automated libraries with 25,000+ books, SOUL software, e-journals, N-LIST access and one E-Library.
- **Computer Labs:** Specialized labs for BCA, BBA, and PGDCA with broadband and updated systems.
- **Conference Hall:** A well-equipped conference hall with a seating capacity of 100 students is available for seminars, workshops, guest lectures, and academic discussions.
- **Multipurpose Halls:** The College has two multipurpose halls used for cultural events, academic programme, and student activities.
- **Hostels:** ST and SC hostels for boys near the main campus with quality facilities.

### **Recognitions and Outreach**

- District Green Champion by MGNCRE, Ministry of Education.
- Mahavidyalaya Utkrisht Scheme participant for infrastructure modernization.
- Active participation in Unnat Bharat Abhiyan 2.0.

### **Co-curricular and Student Support**

- **IGNOU Study Centre (1106)** offering distance learning programs since 1991-92.
- **Career Guidance and Counseling Cell** for competitive exam prep and career planning.

- **NSS, NCC, Red Ribbon Club, Rover & Ranger**, sports and cultural societies to foster all-round development.
- Strong support from **PTA, Alumni Association (GCCAA), and CSCA**.
- **IRAVATI** the yearly magazine of the college.

### **Scholarships and Financial Support:**

The college actively promotes financial inclusion and educational equity by facilitating scholarships under various Central and State Government schemes for eligible students. Some of the major schemes include:

- Post Matric Scholarship for SC/ST/OBC students
- Scholarship for Economically Weaker Sections (EWS)
- Scholarship for Minority Communities
- Incentive Schemes for Meritorious Students
- Scholarship for Single Girl Child
- Himachal Pradesh Indira Gandhi Utkrisht Chhatravriti Yojna
- Himachal Pradesh Dr. Ambedkar Medhavi Chhatravriti Yojna

These scholarships aim to reduce financial burden, promote higher education among underprivileged sections, and encourage academic excellence. The college has a dedicated team that assists students in applying for scholarships, ensuring maximum outreach and benefit.

For more details of the College visit [www.gcchamba.edu.in](http://www.gcchamba.edu.in)

### **MASTER OF COMPUTER APPLICATIONS (MCA)**

**Duration:** 2 Years (4 Semesters)

#### **Mode of Admission**

Online through College website <https://gcchamba.edu.in/>

#### **Eligibility:**

Bachelor of Computer Applications (BCA) /B.Sc. (Computer Science)/ B.Sc. (IT)/ BA(Computer Science)/ BA (IT) / B.Sc./BA (with Mathematics one of the Subject Major or Minor) OR any Graduate with 20-24 credits in the subjects of computer/ Mathematics OR any graduate with minimum of 6 courses of computer studied in graduation (in case of degree not in credit system) 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.

### **Basis of Admission:**

As per Himachal Pradesh University notification. The admission to MCA course will be made on the basis of merit of the Entrance Examination (written test) conducted by H.P. University. If the candidate is not appeared in Entrance Examination (written test) conducted by H.P. University then all such candidates will be selected on the basis of percentage taken in Graduation level.

**Written Test** 100 Marks

**Duration** 1:30 hours

The written test will consist of one paper of 100 marks and of 1:30 hour's duration and shall include the following three sections:

Section	Contents	Marks
A	General logical ability & aptitude	20
B	Mathematics of +2 level	20
C	Computer Awareness	60
<b>Total</b>		<b>100</b>

### **RESERVATION FOR MCA:**

For both Subsidized and Non-Subsidized seats, 120 Points Roster will be followed as per the HPU Hand Book of Information (HBI).

### **DOCUMENTS REQUIRED TO BE UPLOADED WHILE SUBMITTING ONLINE APPLICATIONS**

All applicants must upload clear, legible, and duly attested scanned copies of the following documents during the online application process. Incomplete applications or absence of any mandatory documents may lead to cancellation of candidature.

- Matriculation Certificate
- Class 10 Certificate showing date of birth and detailed marks.
- Senior Secondary School Certificate
- Class 12 Certificate with detailed marks.
- Academic Certificates
- Scanned copies of mark sheets/degrees of qualifying examinations (Bachelor's Degree or equivalent) relevant for MCA admission.
- Candidates appearing in the final year must upload latest available mark sheets.
- Himachal Pradesh Domicile Certificate
- Applicable for female candidates claiming exemption from tuition fees under HP domicile rules.
- Quota and Category Certificate
- Required for applicants applying under any reserved categories or special quotas (e.g., SC/ST/OBC/EWS/Sports/Cultural/Physically Handicapped).
- Candidates with physical disabilities must upload a minimum 40% disability certificate issued by competent authority.
- Character Certificate
- Issued by the Head of the Institution last attended.

- For private candidates, it must be issued by a Gazetted Officer, Panchayat Pradhan, or Ward Counselor, and must not be older than six months from the date of form submission.
- Single Girl Child Certificate :-A certificate issued by the competent authority/parents affirming the applicant as a Single Girl Child, to claim benefit under the respective category.
- Migration Certificate Mandatory for students who have completed their qualifying examination from Boards/Universities outside Himachal Pradesh.
- Upload a scanned copy at the time of application and submit the original at Counseling.
- Caste Certificate (SC/ST/OBC) for candidates claiming reservation or relaxation in age/marks, the certificate must be issued or attested by a Class-I Magistrate.
- Self-Certification for Academic Gap (if applicable)

In case of any gap in studies, a self-declaration explaining the reason for the gap must be uploaded along with any supporting documents (e.g., work certificate, training, or preparation notes).

### FEE STRUCTURE

The fee structure for the MCA Programme at Government College Chamba (affiliated to Himachal Pradesh University) is as follows: Annual Fee (Subsidized Seats)

<b>MCA</b>		
<b>Fee / Fund Head</b>	<b>1st &amp; 3rd Sem</b>	<b>2nd &amp; 4th Sem</b>
Admission Fee	25	
Tuition Fee	300	300
Guest faculty fund	12000	12000
Lab-cum-Inter Net and Library Fund	1000	1000
College Society Corpus fund	2000	2000
Infrastructure upgradation Fund	4000	4000
PTA Fund	200	200
<b>Total (Fee + Funds) Boys and Non-Bonafided Girls</b>	<b>19525</b>	<b>19500</b>
<b>Total (Fee + Funds) HP Bonafied Girls</b>	<b>19225</b>	<b>19200</b>
<b>ANNUAL CHARGES</b>		
Library Security Deposit (1st sem) 1000 (1st sem)	1000	
University development fund		
Gen	500	
IRDP/BPL	200	



**Note:** The cost of the Mandatory Industrial Tour will be borne by the students themselves. The college does not collect any fee in this regard.

**Additional Charges**

- Refundable Library Security Fee:-Rs. 1,000/- (Charged once at the time of admission)
- University Development Fund: Rs. 280/- per student
- For IRDP/BPL Candidates: Rs. 100/- per student
- **Examination fees for every semester will be paid by the student.**

**Important Notes**

Fee once deposited shall not be refunded under any circumstances.

Students admitted to the MCA programme will be governed by the rules and regulations of both the institution and Himachal Pradesh University.

**EXAMINATION & MIGRATION FEE**

The Examination Fee, Migration Fee, and other applicable charges will be levied as per the guidelines issued by Himachal Pradesh University from time to time.

**MANDATORY CONDITIONS TO APPEAR IN SEMESTER-END UNIVERSITY EXAMS**

- To be eligible to appear in the semester-end examinations, a student must meet the following requirements:
- Minimum Attendance:
- The student must maintain at least 75% attendance in each theoretical subject individually.
- On-the-Job Training:
- Completion of on-the-job training, submission of a report, and its presentation are compulsory prerequisites for appearing in the end-semester examination.
- Maternity/Paternity Leave:
- Maternity or Paternity Leave is not permissible during the course period for the purpose of fulfilling attendance criteria or academic obligations.

**DRESS CODE**

A professional and uniform dress code fosters discipline, unity, and a sense of identity among students. It also contributes to building confidence and creating a professional environment aligned with industry expectations.

**Prescribed Dress Code:**

- Dark Grey Formal Trousers
- White Full-Sleeve Shirt
- Black Leather Shoes (with laces)
- Black Tie
- Black Sweater (Winter only)
- Black Blazer (Winter only)
- Black Leather Belt

### Seasonal Guidelines:

During summer months (March to October), blazers and sweaters are not mandatory.

During winter months (November to February), students must wear the full formal uniform including blazers and sweaters.

### Mandatory Compliance:

All MCA students are required to adhere strictly to the above dress code on all working days.

### Note:

Students are exempted from the dress code only on Saturdays each week.

### ABSENTEE AND OTHER FINES

To maintain discipline and ensure accountability among students, the following fine structure has been laid out. All students are expected to adhere strictly to the academic and institutional guidelines. Fines will be imposed as follows:

Nature of Absence/Offense	Fine Amount
Absence from Lecture (Per Lecture)	Rs.3.00
Absence from Practical / Group Discussion / Presentation	Rs.10.00
Absence from Class Test / Mid-Term Test	Rs 20.00 /Rs.100.00
Late Return of Library Books (Per Day)	Rs.1.00
Not Wearing Uniform (First Time)	Rs.50.00
Not Wearing Uniform (Repeated Offenses)	Rs.100.00
Use of Mobile in Class/Lab	Rs.100.00
Without ID Card	RS. 10.00
Readmission Fee (First Instance)	Rs.300.00
Readmission Fee (Subsequent Instances)	Rs.500.00
Indiscipline (Depending on Nature and Gravity)	Up to Rs.5000.00

### Note:

- Fines are subject to review and may be revised by the competent authority.
- Repeated violations may lead to disciplinary actions beyond the fines.

### SCHEME OF THE END TERM EXAMINATION OF MCA

English shall be the medium of instruction and examination. The pass marks in each course 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.

### 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 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.

### **Practical Examination**

Each paper will be of 100 marks (50 marks for practical exam and 50 marks for internal assessment) and duration of each paper will be 3 hours. 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.

Conduct: Practical exam will be conducted by the external examiner from the panel submitted by Coordinator, Department of Computer Science to Himachal Pradesh University and duly approved by the university authority/evaluation branch, Himachal Pradesh University, Shimla.

### **Project Work:**

In 2nd year (fourth semester) the student has to develop one software project, which will be evaluated by the external examiner from the panel submitted by Coordinator, Department of Computer Science, to 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 (3 + 1 Copies)	200 Marks
Viva-Voce	100 marks
Total	600 Marks

In fourth semester, the Coordinator/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.

**SCHEME OF EXAMINATIONS FOR  
MASTER OF COMPUTER APPLICATIONS  
CHOICE BASED CREDIT SYSTEM (CBCS)**

First Semester										
MCA-25-11	Programming in C	4	4	3	75	30	25	10	100	40
MCA-25-12	Data Structures & Algorithms Analysis	4	4	3	75	30	25	10	100	40
MCA-25-13	Computer Organization & Architecture	4	4	3	75	30	25	10	100	40
MCA-25-14	Software Engineering	4	4	3	75	30	25	10	100	40
MCA-25-15	Operating Systems	4	4	3	75	30	25	10	100	40
MCA-25-16	S/W Lab – I Based on MCA-25-11	3	6	3	75	30	25	10	100	40
MCA-25-17	S/W Lab – II Based on MCA-25-12	3	6	3	75	30	25	10	100	40
<b>Total</b>		<b>26</b>	<b>32</b>		<b>525</b>		<b>175</b>		<b>700</b>	
Second Semester										
MCA-25-21	Programming with Python	4	4	3	75	30	25	10	100	40
MCA-25-22	Data Base Management Systems	4	4	3	75	30	25	10	100	40
MCA-25-23	Data Communication & Computer Networks	4	4	3	75	30	25	10	100	40
	Elective-I	4	4	3	75	30	25	10	100	40
	Elective-II	4	4	3	75	30	25	10	100	40
MCA-25-26	S/W Lab – III Based on MCA-25-21	3	6	3	75	30	25	10	100	40
MCA-25-27	S/W Lab – IV Based on MCA-25-22	3	6	3	75	30	25	10	100	40
<b>Total</b>		<b>26</b>	<b>32</b>		<b>525</b>		<b>175</b>		<b>700</b>	
Elective – I										
MCA-25-24(i)	Information Security	4	4	3	75	30	25	10	100	40
MCA-25-24(ii)	Computer Graphics	4	4	3	75	30	25	10	100	40
Elective – II										
MCA-25-25(i)	Theory of Computation	4	4	3	75	30	25	10	100	40
MCA-25-25(ii)	Security in Computing	4	4	3	75	30	25	10	100	40
Third Semester										
MCA-25-31	OOPs with Java	4	4	3	75	30	25	10	100	40
MCA-25-32	Web Technologies	4	4	3	75	30	25	10	100	40
MCA-25-33	Artificial Intelligence	4	4	3	75	30	25	10	100	40
	Elective-III	4	4	3	75	30	25	10	100	40
	Elective-IV	4	4	3	75	30	25	10	100	40
MCA-25-36	S/W Lab – V Based on MCA-25-31	3	6	3	75	30	25	10	100	40
MCA-25-37	S/W Lab –VI Based on MCA-25-32	3	6	3	75	30	25	10	100	40



Paper Code	Nomenclature of Paper	Credits	Workload Per Week (Hrs.)	Exam Time (Hrs.)	External Marks		Internal Marks		Total Marks	Pass Marks
					Max.	Pass	Max.	Pass		
Total		26	32		525		175		700	
Elective – III										
MCA-25-34(i)	Data Mining using R	4	4	3	75	30	25	10	100	40
MCA-25-34(ii)	Cloud Computing	4	4	3	75	30	25	10	100	40
Elective – IV										
MCA-25-35(i)	Cyber Security	4	4	3	75	30	25	10	100	40
MCA-25-35(ii)	Digital Marketing	4	4	3	75	30	25	10	100	40
Fourth Semester										
MCA-25-41	Linux and Shell Programming	4	4	3	75	30	25	10	100	40
MCA-25-42	Advanced Web Technologies	4	4	3	75	30	25	10	100	40
	Elective-V	4	4	3	75	30	25	10	100	40
	Elective-VI	4	4	3	75	30	25	10	100	40
MCA-25-45	PROJECT	4	4	3	75	30	25	10	100	40
MCA-25-46	S/W Lab – VII Based on MCA-25-41	3	6	3	75	30	25	10	100	40
MCA-25-47	S/W Lab – VII Based on MCA-25-42	3	6	3	75	30	25	10	100	40
MCA-25-48	Winter Training / Internship (Industry Based)	4	-	Viva Voce	75	30	25	10	100	40
Total		30	32		600		200		800	
Grand Total		108	128		2175		725		2900	
Elective – V										
MCA-25-43(i)	Soft Computing	4	4	3	75	30	25	10	100	40
MCA-25-43(ii)	Software Quality & Testing	4	4	3	75	30	25	10	100	40
MCA-25-43(iii)	Machine Learning	4	4	3	75	30	25	10	100	40
Elective – VI										
MCA-25-44(i)	Digital Image Processing	4	4	3	75	30	25	10	100	40
MCA-25-44(ii)	Internet of Things	4	4	3	75	30	25	10	100	40
MCA-25-44(iii)	Evolutionary Algorithms	4	4	3	75	30	25	10	100	40