

# Bachelor of Computer Application (BCA)

## Post Graduate Diploma in Computer Application (PGDCA)



Prof Satish Chandel

### From the Co-ordinator's Desk

Education is the basis of all progress. The entire purpose of education is not to restrict itself to imparting bookish knowledge only but include humanitarian values like wisdom, compassion, courage humility, integrity and reliability in a students. We just like you believe in holistic education for your child encompassing- academics, co- curricular activities and life skills learning.

Rapid change in society has left a profound impact on the roles of different people. The colleges will be playing a vital role in future developing the personality of students. I envision computer science department to undergo a transition from versatility to super specialty. Therefore I whole heartedly committed myself, to innovatively design the co curriculum wetted by industry experts and applied the same with complete dedication to achieve academic excellence. We feel proud by providing quality education and equipping our students with skills, confidence and positive approach which will lead to all round development of the students. Our vision is to make computer science department a name to reckon with academic knowledge, application and inspiring the students by giving a strong impacts in creating an environment to become eminent leaders of tomorrow. The department is well equipped with all the amenities to cater to the needs of the students. The department has technically established computer lab comprising of latest computers with internet facility, a well-stocked library and spacious classroom. I wish that all my students will learn with zeal to be a professional who will work for the betterment of humanity. I once again welcome our ambitious youngsters to the department as they are the designer to realize their dreams in IT. I wish you all good luck for future endeavors.

**Prof. Satish Chandel**  
**Coordinator BCA & PGDCA**  
**Govt. College Bilaspur, HP.**



**Seminar on Android Technology**



**Seminar on Cyber Crime**



**Industrial visit at CS Soft Solution Chandigarh**

## 1. BACHELOR OF COMPUTER APPLICATIONS ( BCA )

The course of Bachelor of Computer Applications (BCA) is being offered in the institution under self-financing scheme and regulated through the Higher Education Institute Society regd. Under Cooperative Society Act 2006. The duration of BCA degree course is three years spread over in six semesters and is affiliated to Himachal Pradesh University Shimla. The basic objective to start this course in this institution is to impart quality education in Computer & Information Technology to the candidates admitted for the course to build their career in the I.T. & Computers paradigm. The number of seats allotted for admission to BCA 1st Semester for the academic session 2018-19 is as follows:

Category	Seats
Subsidized	30
Non-Subsidized/Payment	30
<b>TOTAL</b>	<b>60</b>

### Eligibility Conditions

Candidates who have passed 10+2 examination from H.P. Board/CBSE/ICSE or any other Board considered equivalent to 10+2, by the Himachal Pradesh University, Shimla-5, with 40% marks (35% marks for SC/ST category), shall be eligible.

As per H.P. University rules 75% seats will be filled out of the candidates who have passed their 10+2 examination from the schools situated in Himachal Pradesh irrespective of the Board. Remaining 25% seats will be filled on all India basis. Other reservation rules are as per H.P. University norms.

### Age limit

Maximum age limit for admission to BCA course is 21 years for general category, 24 years for SC/ST category and 23 years for girl candidates, as on the 1<sup>st</sup> July of the year concerned. The Vice- Chancellor may permit age relaxation up to maximum of three months. The admission to BCA course will be made on the basis of merit of the qualifying examination.

## 2. POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS ( PGDCA )

The duration of PGDCA is one year spread over two semesters and examination will be held at the end of each semester. The total number of seats in PGDCA course is 40 distributed as follows.

Category	Seats
Subsidized	20
Non-Subsidized/Payment	20
<b>TOTAL</b>	<b>40</b>

### Eligibility Condition:

Any Graduate from the Recognized University or its equivalent with at least 50% marks (45% marks in case of SC/ST candidates).

## **Age Limit:**

Candidates seeking admission in RIDCA programme should not be more than 26 years of age as on 1st July of the year concerned, where as relaxation in upper age limit will be of three years to the SC/ST Candidates.

## **Laboratory Facilities**

Presently the department of BCA & PGDCA is having two well-equipped AC Computer Lab with wi- fi connectivity with 4 mbps internet speed. A lab with 20 computers having latest gadgets is already working. In addition to it, a new second lab has also been established by installing 30 computers of latest configuration. All the computer systems are fully protected with antivirus, Quick Heal, which is upgraded on regular intervals. These facilities keep the students updated of the new changes and innovations in the information technology world and prepare them for the tough competitions in every field. The students are always encouraged to take the maximum advantage of these facilities.

## **Library Facilities**

The students of BCA & PGDCA have an access to the college library which is well stocked with text and reference books related to computer science. This section contains over 500 books including volumes related to the syllabus of the BCA & PGDCA. The library also subscribes three magazines (PC- Quest, Digit and Electronics for You) to keep the students updated and informed about new technical innovations in the field of information technology. The library gives the facility of e-Library and is connected through INFILIBNET. This facility allows them to access about 2100 e-Journals and 51000 e-Books. In addition to this the reading room of library is available for the students from 10:00 am to 4:00 pm. The students are also given the facility of many daily newspapers, weekly and monthly magazines. In addition to it the students are also provided an additional library, through HEIS, i.e., library under self - financing scheme, to consult and cater to their academic needs. This section of library also stocks about 1400 books.

## **Placement Cell**

The department also makes regular efforts for the better placement of its outgoing students and with this objective a placement cell is working successfully in the department. In the previous session this cell organized two programmes for the students and six students were benefited from it in its 1st drive & in the 2nd drive four students found suitable placements.

## **3. BASIS OF ADMISSION FOR BCA & PGDCA**

### **i. Subsidized Seats BCA:**

The admission shall be based on competitive/ written entrance test which shall consist of 100 questions of 100 marks and of 2 hours duration comprising of three parts: math-40 %, logical ability-40 % and English & General Awareness-20 %.

### **ii. Subsidized Seats PGDCA:**

The selection will be made on merit obtained in the written entrance test which will consist of 100 marks and of 2hours duration. The test will include two sections; Section A: General Aptitude and Section B: Mathematics of+2 level.

**Note:** In case of students scoring same marks in entrance test, the merit will be determined on the basis of 10+2 score in case of the BCA and marks scored in graduation in case of PGDCA. If there is again a tie based on the 10+2/ graduation score, the student elder in age will be admitted.

**Note:** a) For Subsidized seats university roster will be followed.



b) The admission for the Subsidized and Non-Subsidized/Payment seats will be made on the basis of Entrance Examination.

### iii. Non-Subsidized Seats: (Payment Seats)

In addition to the eligibility conditions, mentioned above, a candidate shall be required to submit along with the application form, any one of the following documents as may be applicable for the category of their candidature.

- A. Proof of Nationality in case of Foreign Nationals.
- B. Proof of their status in the case of NRI's For this purpose, either of the following documents shall be considered as a proper proof.
  - i) Copy of the Nonresident card/ Employment card issued by the employer.
  - ii) Photocopy of the immigration card/ employment VISA entry on the passport along with details of the passport.
  - iii) Certificate issued by the Indian embassy/high commission in the country where NRI is residing.
  - iv) Photocopy of the latest assessment order of Income Tax authorities either in India or the country of employment field in the status of NRI.
- C. Certificate of sponsorship from NRI to the case of sponsored candidate, along with proof of NRI status of the sponsored required under Para ( b ).
- D. Photocopy of the latest assessment order of the Income-tax authorities in India and the Permanent Account Number (PAN) of the sponsor, issued by the Income Tax Department.

### 4. Detailed Courses Outline For BCA (Effective from 2014 onwards)

The course will be a full time course under CBCS System divided into six semesters implemented w.e.f. session 2020-21. Detailed course outline for BCA programme as prescribed by Himachal Pradesh University is given below:

<b>BCA 1st SEMESTER</b>						
Paper Code	Paper Title	Credit	University Examination	Internal Assessment	Max. Marks	Exam. Duration Hours
BCA 0101	Mathematics -1	4	70	30	100	3
BCA 0102	Applied English	4	70	30	100	3
BCA 0103	Computer Fundamentals	4	70	30	100	3
BCA 0104	C Programming	4	70	30	100	3
BCA 0105	Office Automation Tools	4	70	300	100	3
BCA 0104(P)	C Programming Lab -1	3	25	25	50	3
BCA 0105(P)	Office Automation Tools Lab-II	3	<b>Total</b>	25	50	3
					<b>600</b>	
<b>BCA 2nd SEMESTER</b>						
Paper Code	Paper Title	Credit	University Examination	Internal Assessment	Max. Marks	Exam. Duration Hours
BCA 02101	Mathematics -II	4	70	30	100	3
BCA 0202	Communicative English	4	70	30	100	3
BCA 0203	Digital Electronics	4	70	30	100	3
BCA 0204	Data Structures	4	70	30	100	3
BCA 0205	Data Base Management system	4	70	30	100	3

BCA 0204(P)	Data Structures Lab - III	3	25	25	50	3
BCA 0205(P)	Data Base Management system Lab-IV	3	25	25	50	3
		<b>Total</b>			<b>600</b>	

### BCA 3rd SEMESTER

Paper Code	Paper Title	Credit	University Examination	Internal Assessment	Max. Marks	Exam. Duration Hours
BCA 0301	Mathematics -II	4	70	30	100	3
BCA 0302	Business Practices and Management	4	70	30	100	3
BCA 0303	Computer Organization	4	70	30	100	3
BCA 0304	Object Oriented Programming with C++	4	70	30	100	3
BCA 0305	Desktop publishing & Designing	4	70	30	100	3
BCA 0304(P)	Object Oriented Programming with C++ Lab-V	3	25	25	50	3
BCA 0305(P)	Desktop publishing and Designing Lab-VI	3	25	25	50	3
		<b>Total</b>			<b>600</b>	

### BCA 4th SEMESTER

Paper Code	Paper Title	Credit	University Examination	Internal Assessment	Max. Marks	Exam. Duration Hours
BCA-0401	Personnel Management	4	70	30	100	3
BCA-0402	Accounting	4	70	30	100	3
BCA-0403	System Analysis and Design	4	70	30	100	3
BCA-0404	Internet Technology & Web Page Design	4	70	30	100	3
BCA-0405	Programming in Visual Basic Internet Technology &	4	70	30	100	3
BCA0404(P)	Web Page Design Lab-VII	3	25	25	50	3
BCA-0405(P)	Programming in Visual Basic Lab-III	3	25	25	50	3
		<b>Total</b>			<b>600</b>	

### BCA 5th SEMESTER

Paper Code	Paper Title	Credit	University Examination	Internal Assessment	Max. Marks	Exam. Duration Hours
BCA-0501	Operating System	4	70	30	100	3
BCA-0502	eCommerce	4	70	30	100	3
BCA-0503	Management Information System	4	70	30	100	3
BCA-0504	ASP. net Technologies	4	70	30	100	3
BCA-0505	Computer oriented statistical methods	4	70	30	100	3
BCA0504(P)	ASP Net technologies Lab-IX	3	25	25	50	3
BCA-0505(P)	Computer oriented statistical Method lab-X	3	25	25	50	3
		<b>Total</b>			<b>600</b>	

## BCA 6th SEMESTER

Paper Code	Paper Title	Credit	University Examination	Internal Assessment	Max. Marks	Exam. Duration Hours
BCA-0501	Operating System	4	70	30	100	3
BCA-0601	Computer Networks	4	70	30	100	3
BCA-0602	Numerical Methods	4	70	30	100	3
BCA-0603	Multimedia Technology	4	70	30	100	3
BCA-0604	Computer Graphics	4	70	30	100	3
BCA-0605	Software Engineering	4	70	30	100	3
BCA0604(P)	Computer Graphics Lab-XI	3	25	25	50	3
BCA-0605(P)	Major-Project	3	<b>Total</b> 25	25	50	3
					<b>600</b>	

**Note :** See General Instructions of CBCS/RUSA at Page No.2 further details

### 5. Scheme of Examination for BCA

The pass percentage in each subject will be 40 %.

#### i) Theory Papers

For regular students each paper will be of 100 marks (70 marks for theory exam and 30 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 be 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 to 10 parts, out of the entire syllabus. In all five questions are to be attempted. **ii) Practical Examination Duration: 3 Hrs.**

Practical exam will be of 50 marks (Int. -25 & Ext. 25) and is conducted by the external examiner from the panel submitted to the Chairman, Computer Science Department, Himachal Pradesh University Shimla.

### 6. Detailed Courses Outline for PGDCA (Outline of PGDCA Course (1 year) -Two Semester)

Course Code	Paper	Max. Marks Theory	Internal Assessment	Exam. Duration Hours
<b>SEMESTER-1</b>				
DCS-101	Fundamentals of Programming using C	75	25	3
DCS-102	PC Software	75	25	3
DCS-103	Operating System	75	25	3
DCS-104	Computer Organization and Architecture	75	25	3
DCS-105	Practical- (C Language)	50	50	3
DCS-106	Practical-II (PC Software)	50	50	3
<b>SEMESTER -II</b>				
DCS-201	Data &file structure	75	25	3
DCS-202	System Analysis and Design	75	25	3
DCS-203	Object Oriented Programming & C++	75	25	3
DCS-204	Data Base Management System	75	25	3
DCS-205	Practical-III (DFS using C++)	50	50	3
DCS-206	Practical-IV(D.B.M.S.)	50	50	3
DCS-207	Project work	200		3

## 7. Scheme of Examination for PGDCA

### Theory Papers

For regular students 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. Four questions are to set from each part and candidate is required to attempt two questions from each part. 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.

### Practical Examination          Duration: 3 hours

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

**Conduct:** Practical exam will be conducted by the external examiner from the panel submitted by Chairman, Computer Science Department, Himachal Pradesh University and duly approved by the University Authority/ Evaluation branch, Himachal Pradesh University, Shimla.

### Project Work

In 2nd Semester Each student has to develop a project, which will be evaluated by the external examiner from the panel submitted, by Chairman, Computer Science Department, Himachal Pradesh University, and duly approved by the University Authority! Evaluation branch, Himachal Pradesh University, Shimla on the following basis.

1. Project Report          50 Marks
2. Seminar                  50 Marks
3. Viva-Voice              100 Marks

## 8. Fee Schedule For BCA

For Subsidized seats          12,000/- per year

For Non-Subsidized Seats    25,000/- per year

## 9. Fee Schedule For PGDCA

### Note:

For Subsidized seats          14,000/- per year

For Non-Subsidized Seats    25,000/- per year

- ✪ The course fee is subject to change as per HPU and H.P. Govt. Directions. The fee once deposited cannot be refunded
- ✪ Rs. 300/- (Rs. Three Hundred Only) will be charged toward PTA fund in addition to course fee.
- ✪ All the students will have to deposit Rs. 1000/- (Rs. One Thousand only) refundable library security - in BCA & PGDCA first semester.



- ✪ University development fund Subsidized Rs. 250/- Non- Subsidized Rs/500/- IRDP/BPL Rs. 100/- & Youth Red Cross membership fee Rs. 40 will be charged extra.
- ✪ Internet fee Rs.120/- per year will be charged from the students.

## 10. Fines

Absence fine per period	05.00
Absence fine per practical	10.00
Absence fine house test per paper	100.00
Fine for without Uniform	50 00 per day
Late Return Library book	01.00 per day/book

**Note: Fee once deposited shall not be refunded in any case.**

## 11. Dress Code

The dress code for BCA & PGDCA students was made mandatory from the academic session 2010-2011. As per the norms of this code the students registered with BCA & PGDCA programmes are directed to follow the dress code strictly during the academic session. The code consists the following uniform:

1. Formal White shirt
2. Formal Black pant
3. Blue Blazer
4. Blue Sweater      Common for Boys and Girls
5. Steel gray tie
6. Formal Black Shoes
7. Gray Shocks
8. White Kurti, Black Salwar, Steel Grey Dupatta (option for Girls)

**Note:** The dress code is applicable only on Monday to Friday. The students are free to wear casual dress on Saturday.

## 12. Faculty Profile

### a. Administrative Body

Prof. Ram Krishan	Chairperson (HEIS)
Prof. SitaRam	Member Secretary (HEIS)
Prof. Satish Chandel	Coordinator, BCA & PGDCA.

### b. Academic Faculty:

Mr. Teg Singh	Asstt. Professor
Mr. Ankit Chandle	Asstt. Professor
Mrs. Kanchan Sharma	Asstt. Professor
Mrs. Monika	Asstt. Professor
Mrs. Poonam	Asstt. Professor
Mrs. SanjuBala	Asstt. Professor
Mrs. Sonika Sharma	Asstt. Professor

**c. Office Staff**

Mr. Praveen Soni	Computer Operator cum Clerk
Mrs Deepika	Office Assistant
Mrs. Reena	Office Assistant
Mr. Raman	Lab Boy
Mr. Anil Kumar	Peon

**14. List of the Students Placed/Employed In Various Organizations**

( As per the Information available in the Department )

Sr. No.	Name	Session	Organization	Designation
1	Tapan Gautam	2006-09	Allegro Financial Solution Ltd.	Financial Advisor
2	Ritika Jagota	2006-09	Indian Postal Services	System Administrator
3	Rashika Kondal	2006-09	Immigration and Emigration Dept	System Expert
4	Varilta Sharma	2006-09	Software company at Bangalore	Software Engineer
5	Swaraj Sharma	2007-10	Airtel Bharti Telecommunication	System Administrator
6	Komal Sharma	2007-10	Software company at Chandigarh	Software Engineer
7	Pawan Bhatia	2007-10	Resort at Goa	Network Administrator
8	Pranshu Mehta	2008-11	Indian Postal Services	System Administrator
9	Saurabh Shukla	2008-11	Software company at Bangalore	Software Engineer
10	Puneet Gautam	2009-12	Indian Postal Services	System Administrator
11	Diksha Jaswal	2009-12	Indian Postal Services	System Administrator
12	Sandeep Sharma	2009-12	Indian Air Force	Technical Staff
13	Puja Kumari	2007-10	Canara Bank	Probationary Officer
14	Ritesh Gautam	2010-13	Soft Solutions Pvt. Ltd.	Software Developer
15	Abhinav	2010-13	Soft Solutions Pvt. Ltd.	Software Developer
16	Abhishek	2010-13	Soft Solutions Pvt. Ltd.	Software Developer
17	Anoop Kumar	2006-07	BPO at Chandigarh	Customer Care Executive
18	Subhash Sharma	2008-09	BPO at Chandigarh	Customer Care Executive
19	Sangram Singh	2008-09	BPO at Chandigarh	Customer Care Executive
20	PrashantChandel	2014	CS Info Tech Chandigarh	Technical Support
21	Abhisek Mishra	2014	CS Soft solution Pvt.td Mohali	Programmer
22	Kiran Kumari	2015	UIMATIC Pvt. Ltd Mohali	Web & Graphics Designer
23	Shivani	2015	HDFC Bank Chandigarh	Sales Marketing
24	Parveen Kumar	2015	UIMATIC Pvt. Ltd Mohali	Web Designer
25	Nishant Sharma	2016	Bristlecone India Ltd. Bangluru	Associate Consultant
26	Akshay Sharma	2016	HP Forest Deptt.	Forest Guard
27	Neeraj	2016	HP Forest Deptt.	Forest Guard
28	Surjeet Thakur	2016	Shri Ram Transport Finance Ltd	Relationship Executive
29	Ajay Kumar	2016	Smrat Hotel The Mall Shimla	Front Office
30	Vikram Thakur	2016	Edifecs Tech. Pvt. Ltd Mohali	Product Support Engineer
31	Mukesh	2017	Mobilized India Pvt. Ltd Mohali	Programmer
32	Gaurav	2017	Mobilized India Pvt. Ltd Mohali	Programmer
33	Anjali	2017	Mobilized India Pvt. Ltd Mohali	Programmer
34	Hans Raj	2017	Mobilized India Pvt. Ltd Mohali	Programmer
35	Priyanka	2017	HDFC Bank Chandigarh	Clerk

## 15. Online Submission of Application Form

**Last date for submission of application online form (BCA) 31 July 2020**

### DOCUMENTS REQUIRED FOR ONLINE ADMISSION

1. All students willing to take admission in 1st year need to click on the link apply. Now for the registration, up to 31st July 2020.
2. After registration students will receive login Id and password, using which they need to login for the admission and submit the desired details and documents in application.
3. Scanned copies of all Board certificates from matric onwards. Scanned copy of character certificate from the head of institution last attended. A valid Own/Family member mobile number/Email account.
4. All Communication will be sent through SMS and Email.
5. Recent passport size photograph scanned in 140 x 180 pixel resolution and less than 200 KB in size.
6. Students with a gap of one year or more must have to accept declaration along with affidavit.
7. The candidates from other Boards/University, must submit:
  - a. Eligibility certificate from H.P. Board/University showing equivalence.
  - b. Migration Certificate.
  - c. SC/ST scanned certificate for those seeking relaxation or weightage. The candidates belong to IRDP, NCC, NSS, Sports, Cultural Quota those seeking relaxation or weightage must upload scanned copy of certificate

1. THE CANDIDATE FINALLY SELECTED FOR B.C.A./ P.G.D.C.A. ARE ABIDE BY ALL THE RULES, GUIDELINES AND DIRECTIONS AS CONTAINED IN THE PROSPECTUS OF THE GOVT. P.G. COLLEGE BILASPUR FOR THE ACADEMIC SESSION 2020-21
2. THE COURSE FEE ONCE DEPOSITED WILL NOT BE REFUNDED IN ANY CASE.

**Prof. Ram Krishan**  
Director-BCA& PGDCA  
Govt College Bilaspur, HP