

Transforming lives with Innovation & Technology

**BCA | PGDCA**  
**2021-2022**  
**Prospectus**



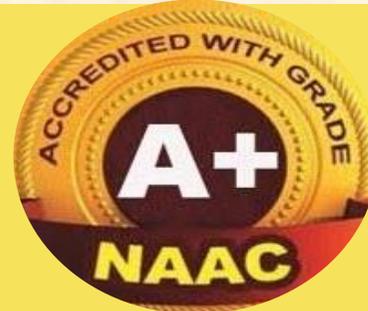
# Sanatan Dharma College Ambala Cantt.



**Affiliation**  
Kurukshetra University, Kurukshetra



**UGC Award**  
College with Potential for Excellence



**NAAC Accreditation**  
A+ with CGPA 3.51



**ISO Certification**  
9001:2015



**ISO Certification**  
14001:2015

## About Sanatan Dharma College

Sanatan Dharma College, Ambala Cantt established in the year 1916, affiliated to Kurukshetra University, Kurukshetra, situated at Jagadhari Road, Ambala Cantt. is a premier multi-faculty post-graduate co-educational institution of Higher Studies delivering Education. Furthermore Sanatan Dharma College is NAAC Accredited institution that was awarded Grade “A+” with CGPA 3.51 in the third cycle. It has also been bestowed with the status of College with Potential for Excellence by UGC, New Delhi twice. College has also been chosen as DDU Kaushal Kendra by UGC, New Delhi. The College has a vision to build technology professionals with a practical Industry exposure to be readily deployable in the industry.

Indisputably the HEI of choice for the stakeholders of the region, the college today has on its rolls more than 3000 students, offers 20 UG and 09 PG programs.

The college has well qualified and committed team of teachers who untiringly provide education in the streams of Humanities, Science, Commerce, Computer Applications at undergraduate level. The college also offers Post graduation in English, Hindi, Economics , Maths, Applied Physics, Commerce and Post Graduate Diploma in Computer Applications. Professional courses such as BCA, BBA, B.Sc.(Hons) IT, B.Voc(Software Development), B.Voc(BPO) and PGDCA are running very successfully in the college and have generated the skilled man power to be absorbed by the industry and government sector.



3000+	20+	30+	100+	16+
Students	Departments	Programs	Faculty	Acres Campus

Many of our ex-students are leading figures in the political, administrative and academic fields. Hon'ble Former Union Minister for External Affairs, Late Smt. Sushma Swaraj, Govt. of India, Hon'ble Minister of Health & Sports, Sh. Anil Vij, Govt. of Haryana, Hon'ble Sh. Rattan Lal Kataria, Member Parliament, Sh. Harmohan Dhawan, Former Union Minister of State for Civil Aviation, Govt. of India, Sh. N N Vohra, Governor J & K, Mr. B K Goswami, Former Advisor to Governor J & K and U P, Mr. Swatantar Alok, Former, UNFPA Representative Kathmandu Nepal, Padam Sh. F C Garg, Former Deputy Secretary, Govt. of India, Mr. Bhavani Singh, Former Chief Justice, Himachal Pradesh High Court, Judicial Officers Ms. Neelima Shangla, Mr. Sajeev Magoo & Mr. Jagjeet Singh, Noble Laureate Abdus Salam, Mr. Yogesh Gupta Executive Director HAL, Mr. Rajesh Behl, Senior Scientist ISRO, Dr K C Malhotra, Former Vice-Chancellor, Himachal Pradesh University, Shimla, Mr. Jagjeet Singh, Registrar, Punjab University, Chandigarh, Dr Lokesh chander, Director International Academy of Indian Culture, New Delhi, are some of our distinguished alumni.

The institution gives due weightage to the Personal Growth and Social Development Index of its students. As such, strenuous efforts are made not only to achieve the best in the fields of Sports, Cultural, NCC, NSS, Career Guidance and Placement activities but also to raise the bar in line with the dynamic changes taking place in these areas.

College has also been awarded with First Prize for energy conservation by Haryana Renewable Energy Development Authority (HREDA) this year.

# Infrastructure at a Glance



**Lush Green Lawns**



**Sprawling Area of 16 Acres**

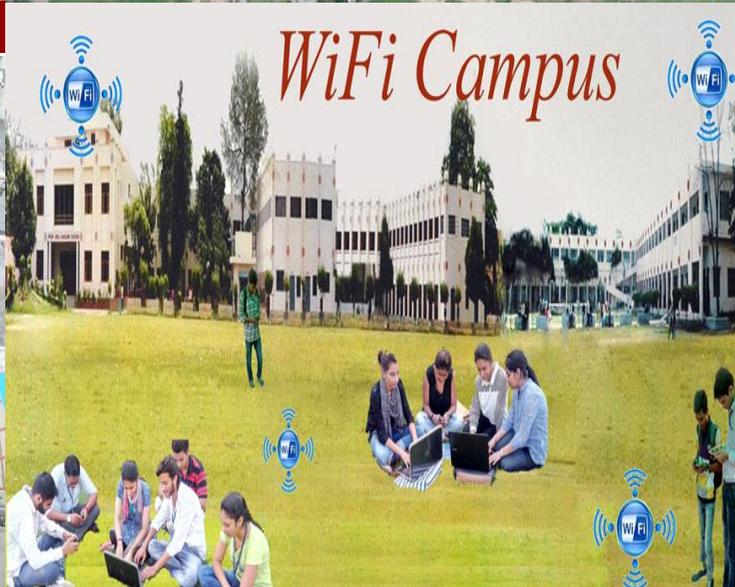
**Solar Panels of 110 KW**



**Zero Waste Campus (Vermicompost Project)**



**WiFi Campus**



**Fully Automated Administrative Office**



# Ramp for Disabled



# College Central Library



# Fully Computerized Library with Open Shelf System



# Free Access to more than 2000 Tutorials/Videos



# College Information Management System

Apps Facebook - Log In or CIMS SDC Ambala RTI Home Page

**SANATAN DHARMA COLLEGE (LAHORE) AMBALA CANTT**  
 NAAC Re-accredited Grade 'A' with CGPA 3.48  
 College with Potential for Excellence - UGC, New Delhi

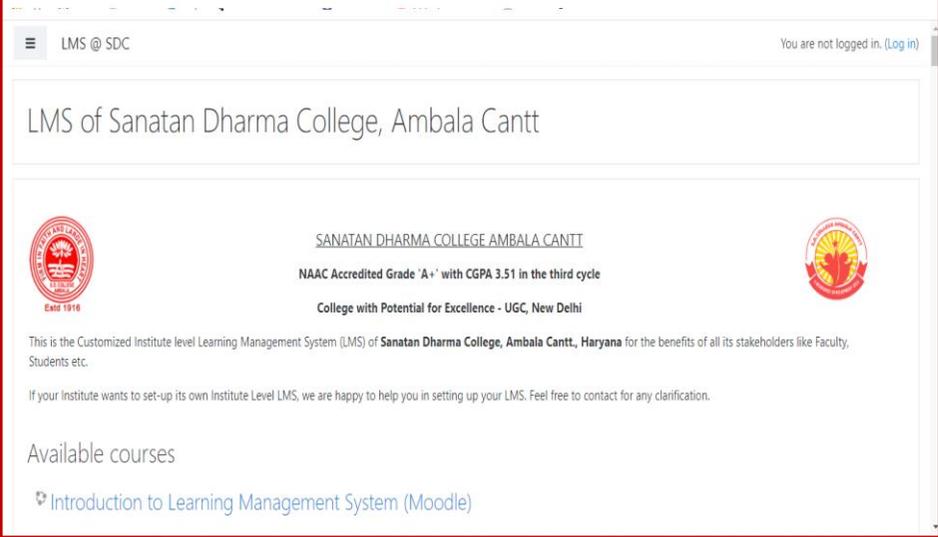
College Information Management System

उठो-जागो-धरैय प्रपि तक रकीक

Student Faculty Admin Alumni

## Moodle Learning Management System

Online Learning platform for educators, administrators and learners with a **single robust, secure and integrated system** to create personalised learning environments



The screenshot shows the Moodle LMS interface. At the top, it says "LMS @ SDC" and "You are not logged in. (Log in)". Below that, it displays "LMS of Sanatan Dharma College, Ambala Cantt". The main content area features the college's logo on the left and right, and text in the center: "SANATAN DHARMA COLLEGE AMBALA CANTT", "NAAC Accredited Grade 'A+' with CGPA 3.51 in the third cycle", and "College with Potential for Excellence - UGC, New Delhi". A paragraph below states: "This is the Customized Institute level Learning Management System (LMS) of Sanatan Dharma College, Ambala Cantt., Haryana for the benefits of all its stakeholders like Faculty, Students etc." Another line says: "If your Institute wants to set-up its own Institute Level LMS, we are happy to help you in setting up your LMS. Feel free to contact for any clarification." At the bottom, under "Available courses", there is a link for "Introduction to Learning Management System (Moodle)".

## Virtual Library of Department of Computer Science

PPT's	E-BOOKS	E-TUTORS	QUESTION BANKS	VIDEOS
195	150	300	26	178

## Activities under 35 Collaborations/Tie-Ups with Industry/Institutes of high eminence

Workshops	Guest lectures	Exhibitions/Expo	Consultancy
Industrial Visits	Project Trainings	Internships	Summer Trainings
Academic Research	Skill Development	Resource Sharing	Industry ready Curriculum
	Placements	Seminars	



## BACHELOR OF COMPUTER APPLICATIONS

The 3-year under graduate degree programme extended over six semesters trains for the required skills in the field of Information Technology and Computer Applications. It generates tech-savy solution providers and innovators for software development. The main objectives of BCA Programme at SDC is to equip youth with technical, soft and entrepreneurship skills & make them industry ready as per global competencies.

## PROGRAM OUTCOMES

After completing the three year degree program at SDC, student will be able to :

- ❖ **Attain employability skills to serve Software, IT industry and government sector.**
- ❖ **Attain entrepreneurship skills to open their own venture in the area of hardware, software and networking.**
- ❖ **Obtain analytical and problem solving skills to understand, analyze and develop real life applications for the benefit of society.**
- ❖ **Develop effective communication skills.**
- ❖ **Attain ability to apply knowledge of computer science, applications and mathematics in practice.**
- ❖ **Become civilized citizen bundled with human values, professional ethics, environment consciousness**
- ❖ **and sensitive to societal issues.**
- ❖ **Attain strong base to pursue higher education in the field of Computer Applications, Computer Science, IT and Management.**
- ❖ **Attain skill to use modern computing tools and techniques for learning and developing software solutions.**

## PROGRAM SPECIFIC OUTCOMES

After completing the three year degree program –Bachelor of Computer Applications at SDC, student will be able to :

- ❖ **Attain skills to work in latest technologies and programming languages.**
- ❖ **Attain technical skills for software development, testing, problem analysis, hardware trouble shooting, Web designing, Web development, project management, database management, network management and office support.**
- ❖ **Attain communication and personality development skills.**
- ❖ **Attain knowledge of open source technology.**

## CARRER/JOB PROSPECTS AFTER BCA

JOBS	HIGHER STUDIES
<p><b>Tech Jobs at IT Companies/Private Sector</b>            Software Developer, Technical Support, IT Analyst, Web Developer, Junior Analyst, Computer Support Service Specialist, Software Publisher            Digital Marketing Professionals            Cyber Security Professionals            Bank Professionals            Teaching in Schools &amp; Colleges            Technical Support            Data Analyzation            Mobile App Development            Computer Manufacturers            Security and Surveillance Companies            Multimedia</p> <p><b>Government Sector</b>            BPO- Business Process Outsourcing            EPFO- Employees' Provident Fund Organisation            CIMFR- Central Institute of Mining and Fuel Research MBDA- Meghalaya Basin Development Authority            NIOS- National Institute of Open Schooling      Guwahati High Court            NIVEDI- National Institute of Veterinary Epidemiology and Disease Informatics      CLRI- Central Leather Research Institute            IIOR- Indian Institute of Oilseeds Research      NSC- National Seeds Corporation Limited            IIMR- Indian Institute of Millets Research      Banks            Teaching in Schools &amp; Colleges</p>	<p><b>Post Graduate Courses</b>            Master of Computer Applications(MCA)            Masters Degree in Information Management (MIM)            Masters in Computer Management (MCM)            Post Graduate Program in Corporate Studies (PGPCS)            Information Security Management (ISM)            Master of Business Administration (MBA)</p> <p><b>Short-term Courses after BCA</b>            PGDM, PGDCA, PGDBA, PISM Certification or take up specialisations like JAVA, Coding, Cloud Computing, Networking, etc.</p> <p><b>Innovative and Lucrative Careers after BCA</b>            Artificial Intelligence, Machine Learning, Data Security, Networking or Hardware Courses, Software Designing, Bioinformatics, etc.            Data Scientist</p> <p><b>Government Exams</b>            SSC CGL, BHEL, Bank exams, UPSC, SSC, Railway Exams</p>

## Starting BCA Salary

The average BCA salary ranges between INR 3-6 LPA in the private sector and INR 2-5 LPA in the government sector.

## CURRICULUM

SEMESTER-I	SEMESTER-III	SEMESTER-V
Computer and Programming Fundamentals	Object Oriented Programming Using C++	Web Designing Fundamentals
Windows and PC Software	Data Structures	Operating System-I
Mathematical Foundations-I	Computer Architecture	Artificial Intelligence
Logical Organization of Computers - I	Software Engineering	Computer Networks
Communicative English	Fundamentals of Data Base Systems	Programming using Visual Basic
Programming in C	Computer Oriented Numerical Methods	Multimedia Tools
SEMESTER-II	SEMESTER-IV	SEMESTER-VI
Advanced Programming in C	Advanced Data Structures	Web Designing Using Advanced Tools
Logical Organization of Computers - II	Advanced Programming using C++	Operating Systems - II
Mathematical Foundations-II	E-Commerce	Computer Graphics Internet Technologies
Office Automation Tools	Relational Data Base Management System	Internet Technologies
Structured System Analysis and Design	Computer Oriented Statistical Methods	Advanced Programming with Visual Basic
Personality Development	Management Information System	Programming in Core Java
Lab-I Based on BCA-112 & BCA-124	Lab - I Based on BCA-231 & BCA- 242	Lab-I Based on BCA 351 & BCA 352
Lab - II Based on BCA-116 & BCA-121	Lab - II Based on BCA-232 & BCA- 241	Lab-II Based on BCA 355 & BCA 365

**Internal assessment will be based on the following criteria:**

- (I) Two Handwritten Assignments : 10 marks  
(Ist Assignment after one month & IInd Assignment after two months)

(II) One Class Test : 5 marks(one period duration)

(III) Attendance : 5 marks

**Marks for Attendance will be given as under:**

(1) 91% onwards : 5 Marks

(2) 81% to 90% : 4 Marks

(3) 75% to 80% : 3 Marks

(4) 70% to 75% : 2 Marks \*

(5) 65% to 70% : 1 Mark \*

\* For students engaged in co-curricular activities of the colleges only/authenticated medical grounds duly approved by the concerned Principal.

NOTE: 1. Practical exam will be conducted annually in two sessions.

#### ELIGIBILITY CONDITIONS FOR BCA

A candidate who has passed 10+2 examination or any other examination recognized as equivalent thereto, obtaining at least 50% marks in the aggregate, shall be eligible to join First Semester of the course.

#### BASIS OF ADMISSION

The admission will purely be on the basis of percentage of marks obtained in 10+2 i.e merit in qualifying examination, subject to eligibility criteria

No. of Seats=80

#### DOCUMENTS REQUIRED FOR ADMISSION

£ 10th DMC

£ 12th DMC

£ Character Certificate

£ Migration Certificate

£ GAP Certificate(If Applicable)

£ Achievements Certificate (If any)

£ Category Certificate (If Applicable)

£ Aadhaar Card

£ Passport size photos



## POST GRADUATE DIPLOMA IN COMPUTER APPLICATIONS

PGDCA is a professional post graduate diploma program to prepare Post Graduates for lucrative careers in software industry, corporate sector, govt. organisations and academia by providing skill based 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.

## PROGRAM OUTCOME

After completion of course students will be able to acquire the following skills:

- ❖ Use technologies to access and interpret information effectively.
- ❖ Apply their analytical skills to investigate unfamiliar problems using Database, Data Structure and programming language 'C'.
- ❖ Demonstrate the technical knowhow in field of MS Office Application.
- ❖ Design and develop basic Applications as per the demands of customer.
- ❖ Exhibit skills for a continuous and lifelong learning.
- ❖ Become civilized citizen bundled with human values, professional ethics, environment consciousness and sensitive to societal issues.

## PROGRAM DETAILS

PROGRAM DURATION:	One Academic session (Annual System)
ELIGIBILITY CONDITIONS FOR PGDCA	A person who has passed the Bachelor's degree examination of the Kurukshetra University, or an examination recognised as equivalent thereto shall be eligible to join this course.
BASIS OF ADMISSION	The admission will purely be on the basis of percentage of marks obtained in Bachelor's degree examination i.e merit in qualifying examination, subject to eligibility criteria.
No. of Seats	80
DOCUMENTS REQUIRED FOR ADMISSION	10th DMC,12th DMC,Bachelor's DMC

	Character Certificate, Migration Certificate GAP Certificate (If Applicable) Achievements Certificate (If any) Category Certificate (If Applicable) Aadhaar Card, Passport size photos
PGDCA Job Prospects	After the successful completion of this program, one can work as: Software Engineer Computer Programmer & Analyst Interface Engineer Java Developer Project Manager Information Security Analyst IT Consultant

**PROGRAM CURRICULUM**

- ❖ Computer Organization & Networking Fundamentals
- ❖ Problem Solving through 'C'
- ❖ Data Structures
- ❖ Data Base Management System
- ❖ Operating System
- ❖ Software Lab - I Programming in C
- ❖ Software Lab - II Word, Excel, Access / SQL

# Our Recruiters



Technology - needs - brilliance

# Our Gems Selected in various MNC's



Follow us on:

<https://www.sdcollegeambala.ac.in/>

<https://moodle.sdcollegeambala.org/>

<https://www.youtube.com/c/SanatanDharmaCollegeAmbalaCantt>

<https://t.me/sdchelpdesk>

<https://library.sdcollegeambala.org/>

<https://scholarship.sdcollegeambala.ac.in/>

For Admission Enquiry

Contact Number: 0171-2630283

Email: admission@sdcollegeambala.ac.in

Website: www.sdcollegeambala.ac.in

Admission Portal

<https://dheadmissions.nic.in/>

## Tentative Admission Schedule for Under Graduate (UG) published by Department of Higher Education

Sr No.	Title	Date/Timelines
1.	Online Registration and Submission of Application	12th August 2021 to 20th August 2021
2.	Online Documents Verification	13th August 2021 to 22nd August 2021
3.	1st Merit List Preparation	23rd August 2021 to 24th August 2021
4.	1st Merit List Out (Valid upto 28th August 2021)	25th August 2021
5.	Fee Submission (1st Merit List)	25th August 2021 to 28th August 2021
6.	Preparation of 2nd Merit List	29th August 2021
7.	2nd Merit List Out (Valid upto 31st August 2021)	30th August 2021
8.	Fee Submission (2nd Merit List)	30th August 2021 to 31st August 2021
9.	Teaching Term	w.e.f 1st September 2021
10.	Re-opening of Admission Portal for Registration towards Open Counselling for leftover seats	1st September 2021



Web Site for registration: <https://dheadmissions.nic.in/>