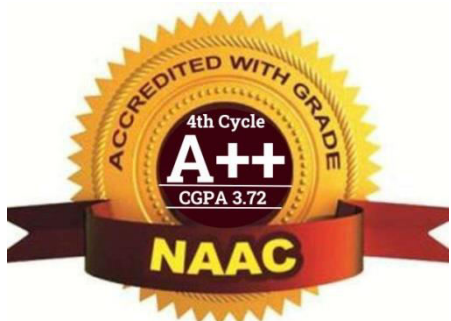




Professional Courses Admission Brochure(2024-25)

No 1
Aided College
In Haryana



Recognized for our environmental, ethical, academic, co-curricular performance & community engagements

- Accredited with Grade "A++" at CGPA 3.72 in the fourth cycle by NAAC, Bangalore
- College with potential for Excellence twice by UGC, New Delhi(2010-2019)
- An ISO 9001-2015, 14001:2015, 50001:2018 Certified Institution(2022-2023)
- Swachh College Award by Municipal Council, Ambala Sadar
- State YRC Award for commendable work in human welfare activities twice by Hon'able Governor
- Best NSS Unit Award thrice by Kurukshetra University, Kurukshetra
- Recognition from MGNCR Education, MHRD,GOI for Community Development , Rural Upliftment & Best COVID Campaign
- District Green Champion Award by MGNCRE, Ministry of Education,GOI
- Exemplary Record of winning Overall Trophy in Kurukshetra University Zonal Youth Festival for 45 times in a row (Dance, Drama, Singing, Fine Arts, Literary)

0171-2640283

www.sdcollegeambala.ac.in

principal.sdcol@gmail.com

A message from the Principal



Dr. Rajinder Singh
Principal,
Sanatan Dharma College
Ambala Cantt

Welcome to our esteemed college, a pioneer in delivering top-notch professional courses that shape the leaders and innovators of tomorrow. With a legacy of academic distinction and a commitment to holistic development, we take pride in offering industry-relevant programs that prepare students for dynamic careers in today's rapidly evolving landscape.

Ranked as the best college in Northern India, and distinguished as the first in Haryana and second nationwide to achieve the highest grade of **A++** with a stellar **CGPA of 3.72** in the fourth cycle, our college stands as a shining example of our dedication to academic excellence. This prestigious recognition highlights our commitment to providing students with a world-class education that empowers them to excel in their chosen fields.

Our professional undergraduate programs, including BCA, B.Voc Software Development, B.Sc IT, and BBA, are meticulously designed to equip students with the knowledge, skills, and practical experience needed to thrive in today's competitive job market. With a focus on industry relevance, hands-on learning, and experiential training, our programs ensure that graduates are not only work-ready but also possess the critical thinking, problem-solving, and leadership skills necessary for success in the digital age. Our entire curriculum is based on the National Education Policy (NEP) 2020, ensuring relevance and alignment with the latest industry trends and standards.

What sets us apart is our focus on multi-skill development, which forms the cornerstone of our educational philosophy. Alongside academic excellence, we prioritize the holistic development of our students, equipping them with a diverse range of skills and competencies that are essential for success in the modern world.

At our college, we believe in nurturing talent, fostering innovation, and empowering students to realize their full potential. Join us, and we'll provide you with the tools, support, and opportunities you need to be work-ready and life-ready.

Welcome to a place where excellence meets opportunity, and where your professional aspirations become a reality.

Jai Hind !

VISION:

Fostering a harmonious blend of traditional values and modern education, College, envisions empowering individuals to become responsible global citizens. Upholding the principles of Sanatan Dharma, it strives to instill a deep sense of pride in Indian heritage while promoting excellence in education. Through its commitment to equity, inclusivity, and societal transformation, it aspires to emerge as a Center of Excellence, earning global recognition for its contributions to enlightenment and progress.

The Vision of the college 'Tamso Ma Jyotirgamay' Lead Me from Darkness to Light is an offspring of the lofty ideals of its founders and great educationists like 'Bharat Ratna' Mahamana Pt. Madan Mohan Malviya.

MISSION

The primary mission of the college is to uplift the society through education. Like a beacon, nurturing a healthy human resource endowed materially, intellectually, morally and spiritually, the institution continues to spread the light of knowledge.

CORE VALUES



About College

Sanatan Dharma College envisioned by the *great Sanatanis and Social Reformers Mahamana Pandit Madan Mohan Malviya Ji and Shri Deen Dayal Upadhyaya Ji* was established in **1916** at Lahore. The partition of India was a huge set back to the institution. However, it goes to the credit of **Tyagmurthi Goswami Ganesh Duttji**, who rehabilitated and re-established the college in Ambala Cantt in **1948**. The Ministry of Defence provided **10.32** acres of land and with the help of various philanthropists, the construction for the college building was in the pipeline.

The college is recognized under sections 2(f) and 12(b) of UGC Act 1956. The management, staff, students and the civil society have worked in tandem to establish it as a multi-faculty, premier, **co-educational institute of higher learning** which has acquired the dimensions of a mini-University. The college offers **16** undergraduate and **07** postgraduate courses. At present there are **99** teachers and around 3000 students.

After 107 years of its commitment to excellence in Higher Education, the institute extended its mission of integration of ICT in teaching learning and made a conscious effort to train campus community and teaching fraternity nation-wide. E-content development cell of the college has trained more than 5000 educators from different schools and colleges. As a result a huge collection of e-resources have been generated by the faculty. The quality conscious management readily became a part of the accreditation regimen. 1st Cycle of Accreditation **was carried out in 2003, awarded** Grade B+++; **followed by** 2nd Cycle of Accreditation **in 2011 with the award of** Grade A; 3rd Cycle of Accreditation in 2017 resulted in Grade A+ with CGPA 3.51. **However, it was in the latest Cycle-IV in 2023 that College etched its name in the annals of educational history, securing the highest grade in Haryana and standing second nationwide. With an unparalleled Grade A++ and an exceptional CGPA of 3.72, the college emerged as a radiant beacon of academic brilliance, illuminating the path for others to follow. The college was awarded the status of College with Potential for Excellence by UGC, New Delhi twice in 2010 and 2014**



Why Choose SDC ?

107-Year heritage of academic excellence



01

WORLD CLASS INFRASTRUCTURE

- 07 Air-conditioned & Multipurpose Halls
- 46 ventilated & brightly illuminated classrooms
- 34 well-equipped, air-conditioned & ICT enabled Labs
- 04 Lush green gardens
- Hygienic cafeteria
- Green House
- Maharishi Valmiki chair
- Rich & fully automated Library

02

TOP NOTCH DIGITAL INFRASTRUCTURE

- 19 Smart Class rooms
- Super Nova Magnifier, Screen reader, Braille
- Wi-fi Campus with full security & CCTV for 24 X 7
- Lecture recording studio
- Network Resource Centre
- Huge volume of E-resources with remote access-
 - E-books, E-Journals,
 - Institutional Membership of DELNET,
 - Membership of N-List/e-shodsindhu consortium
- Dynamic Website
- Online College Information Management System
- Learning Management System(Moodle)
- Youtube Channel

03

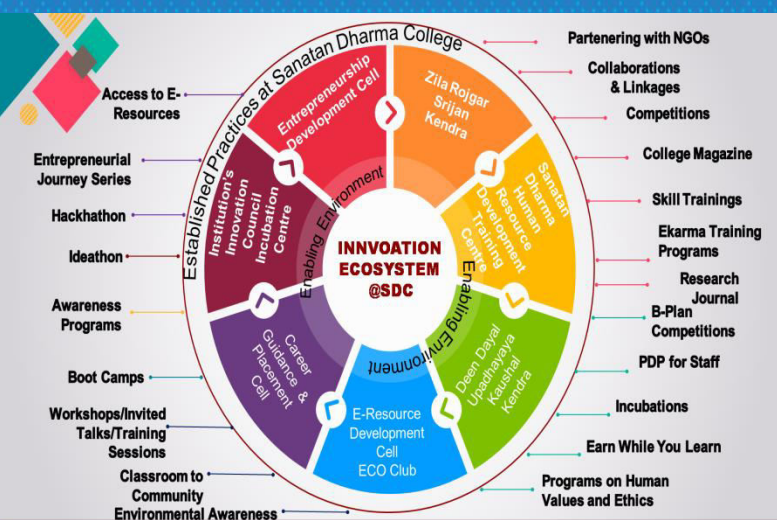
NEEDY & MERITORIOUS STUDENTS

- 100% needy and meritorious students are provided with books from Book Bank in the Library.
- SC Students with Annual income below Rs 2,50,000 are given admission on Zero Fee.
- Merit-Cum-Means Scholarship
- HDFC Bank's Educational Crisis Scholarship
- Scholarship for Only Girl Child
- Scholarship for BC and Minority
- STFC(Shriram Transport Finance Company) India Meritorious Scholarship Programme
- Special Concessions-Sports, Academic, Cultural, YRC, NSS, NCC
- Raj Karni Ramlal Verma Ji Trust (Fatherless Girl Child) Scholarship
- Sita Ram Jindal Foundation Fund Scholarship(Merit scholarship)
- Earn While you Learn Scheme

04

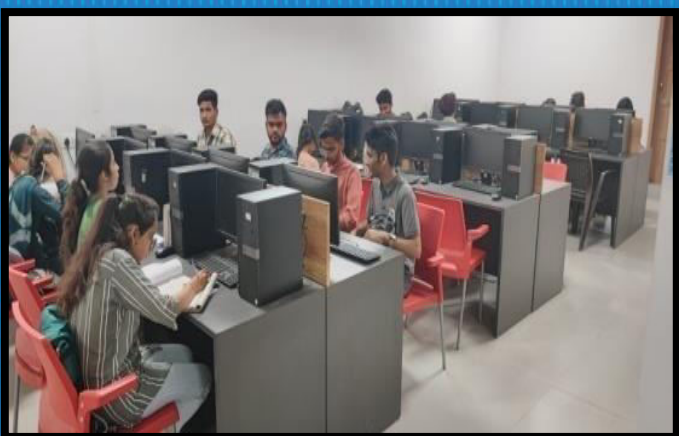
Dynamic Cells: Cultivating Multi-Skill Development for Digital & Industry-Ready Graduates, Entrepreneurs & Innovators

- Career Guidance/ Placement Cell
- Subject Associations
- Women Cell
- YRC, NSS, NCC units
- Young Speaker Club
- Institution's Innovation Cell
- Entrepreneurship Development Cell
- Zila Rojgar Srijan Kendra
- Deen Dayal Upadhyaya Kaushal Kendra
- Environment Club
- E-Resource Development Cell



Why Choose SDC ?

05



Engaging Education: interactive learning practices @SDC enhanced with ICT

50+ collaborations with industry and institutions of high eminence for training, skill enhancement, and placements.

Diverse Learning Styles: Incorporating a range of methods like

lecture-based instruction, group learning, individual self-study, inquiry-based learning, game-based learning, expeditionary learning, technology-based learning, peer teaching, and problem-solving approaches to accommodate diverse learning preferences.

Interactive Experiences: Utilizing workshops, industrial visits, guest lectures, MOOCs, self-paced learning, and platforms such as Moodle and CIMS to foster engagement and enhance learning outcomes.

Interactive Technology: Integrating interactive technology such as smartboards, simulations, and educational apps to make learning more engaging and effective.

Flipped Classroom Model: Implementing a flipped classroom approach where students review instructional materials independently before class and engage in interactive activities and discussions during class time.

Feedback and Assessment: Providing timely feedback and assessments to monitor student progress and adjust teaching strategies accordingly.

Continuous Improvement: Regularly evaluating and refining teaching practices based on student feedback and performance data to enhance the effectiveness of interactive learning experiences.

Mentor-Ward System

Learning through E-Resources-PPT's , Recorded Lectures Videos, Tutorials , e-notes & e-books

Training delivered by our highly qualified and digitally empowered faculty, ensuring an enriching and innovative learning experience.

Statutory Cells

Grievance Redressal/Internal Complaint Committee
Anti Ragging/Discipline Committee
Right to Information Act
SC/ST/OBC/Minority Cell

Remarkable Academic Record(Last five years)

DISTINCTIONS

3000+

PASS %

90%

ENTREPRENEURS GENERATED

200+

TOPPERS IN COMPETITIVE EXAMS

250+

PLACEMENTS (LAST 2 YRS)

200+

Jobs under EWYL Scheme

150+

Joint Ventures incubated
under Zila Rojgar Srijan Kendra

PROFESSIONAL PROGRAMS @SDC



BACHELOR OF COMPUTER APPLICATIONS (BCA)

Seats: 120

Eligibility:

10+2 in any discipline with English as compulsory subject with at least 50% marks in aggregate



BACHELOR OF VOCATION SOFTWARE DEVELOPMENT (B.Voc SD)

Seats: 50

Eligibility:

10+2 in any discipline with English as compulsory subject and at least 50% marks in aggregate



BACHELOR OF SCIENCE(HONS) INFORMATION TECHNOLOGY B.Sc. (Hons) IT)

Seats: 40

Eligibility:

10+2 in non-medical stream and English as compulsory subject and at least 50% marks in Aggregate



BACHELOR OF BUSINESS ADMINISTRATION (B.B.A)

Seats: 60

Eligibility:

10 +2 in any stream and English as compulsory subject and at least 40% marks aggregate



UG CURRICULUM SCHEME AS PER NEP 2020 (FOR BCA,B.VOC SD & BBA -FIRST YEAR)

UG Programme(Interdisciplinary):SchemeD

Semester	Subject-1 Core Courses	Subject-2 Core Courses	Subject-3 Core Courses	Minor/Vocational	Multidisciplinary Courses	Ability Enhancement Courses	Skill Enhancement Courses	Value Added Courses	Total Credits	Exit Option
I	CC-A1 4credit	CC-B1 4credit	CC-C1 4credit	CC-M1 2credit	MDC-1 3credit	AEC-1 2credit	SEC-1 3credit	VAC-1 2credit	24	Under Graduate Certificate in Discipline with 52 credits
II	CC-A2 4credit	CC-B2 4credit	CC-C2 4credit	CC-M2 2credit	MDC-2 3credit	AEC-2 2credit	SEC-2 3credit	VAC-2 2credit	24	
Internship of 4credits of 4-6 weeks duration after 2ndsemester										
III	CC-A3 4credit	CC-B3 4credit	CC-C3 4credit	CC-M3 4credit	MDC-3 3credit	AEC-3 2credit	SEC-3 3credit	--	24	Under Graduate Diploma in Discipline with 96credits
IV	CC-A4 4credit	CC-B4 4credit	CC-C4 4credit	CC-M4(V) 4credit	--	AEC-4 2credit	--	VAC-3 2credit	20	
Internship of 4 credits of 4-6 weeks duration after 4 th semester										
V	CC-A5 4credit	CC-B5 4credit	CC-C5 4credit	CC-M5(V) 4credit	--		Internship# 4credit	--	20	Bachelor in Discipline with 132credits
VI	CC-A6 4credit	CC-B6 4credit	CC-C6 4credit	CC-M6 4credit C-M7(V) 4credit	--	--	--		20	
Credits	Major=72	Minor=24	MDC=09		SEC=09	AEC=08	Internship04	VAC=06	Total=132	

#Four credits of internship, earned by a student during summer internship after 2nd semester or 4th semester, will be taken into account in 5th semester of a student who pursue 3 year UG Programme without taking exit option.

BACHELOR OF COMPUTER APPLICATIONS(BCA)

Our BCA program offers a comprehensive journey into the world of computer applications, blending theoretical concepts with hands-on practical experience. Students delve into various facets of computing, including programming languages, database management, web development, and software engineering. With a focus on innovation and problem-solving, our curriculum equips students with the skills and knowledge needed to excel in the rapidly evolving field of technology. Through industry collaborations and internships, students gain real-world exposure, preparing them for rewarding careers in software development, IT consulting, and beyond.

CURRICULUM FRAMEWORK AS PER NEP 2020 (Multiple Entry-Exit, Internships and Choice Based Credit System)

Sem	Course Type	Course Code	Nomenclature of paper	Credits	Contact hours	Internal marks	End term Marks	Total Marks	Duration of exam (Hrs) T + P
1	CC-A1	B23-CAP-101	Problem Solving through C	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B1	B23-CAP-102	Foundations of Computer Science	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C1	B23-CAP-103	Logical Organization of Computer	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-M1	B23-CAP-104	Mathematical Foundations for Computer Science-I	1	1	10	20	30	3
			Practical	1	2	5	15	20	3
	MDC1	To be taken from other department							
	SEC1	To be taken from SEC Pool							
	VAC1	To be taken from VAC Pool							
	AEC1	To be taken from AEC Pool							
2	CC-A2	B23-CAP-201	Object Oriented Programming using C++	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B2	B23-CAP-202	Introduction to Web Technologies	3	3	20	50	70	3
			Practical	1	3	10	20	30	3
	CC-C2	B23-CAP-203	Concepts of Operating Systems	3	3	20	50	70	3
			Practical	1	2	5	15	20	3
	CC-M2	B23-CAP-204	Mathematical Foundations for Computer Science-II	1	1	10	20	30	3
			Practical	1	2	5	15	20	3
	MDC-2	To be taken from other department							
	SEC-2	To be taken from SEC Pool							
	VAC-2	To be taken from VAC Pool							
	AEC-2	To be taken from AEC Pool							
3	CC-A3	B23-CAP-301	Java OOP Foundations	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B3	B23-CAP-302	Linux and Shell	3	3	20	50	70	3

			programming						
			Practical	1	2	10	20	30	3
	CC-C3	B23-CAP-303	Data Base Technologies	3	3	20	50	70	3
			Practical	1	3	10	20	30	3
	CC-M3	To be taken from other department							
	MDC-3	To be taken from other department							
	SEC-3	To be taken from SECPool							
	AEC-3	To be taken from AEC Pool							
4	CC-A4	B23-CAP-401	Data Structures and Applications	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B4	B23-CAP-402	Front-end Development	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C4	B23-CAP-403	Computer Graphics	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	AEC-4	To be taken from AEC Pool							
	VAC-3	To be taken from VAC Pool							
	CC-M4(V)	To be taken from VOC Pool							
5	CC-A5	B23-CAP-501	Software Engineering	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B5	B23-CAP-502	Back-end Development	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C5	B23-CAP-503	Network Infrastructure and Data Communication Technologies	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC- M5(V)	To be taken from VOC Pool							
	SEC-4	Internship @ 4 Credits							
6	CC-A6	B23-CAP-601	Programming using Python	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B6	B23-CAP-602	Advanced Web Development	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C6	B23-CAP-603	Artificial Intelligence	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-M6	To be taken from other department							
	CC-M7(V)	To be taken from VOC Pool							
7	CC-H1	B23-CAP-701	Principles & Paradigms of Programming Languages	4	4	30	70	100	3
	CC-H2	B23-CAP-702	Software Testing	4	4	30	70	100	3
	CC-H3	B23-CAP-703	Data Mining and	4	4	30	70	100	3

			Warehousing						
	DSE-H1	B23-CAP-704	NoSQL Databases	4	4	30	70	100	3
		Or							
		B23-CAP-705	Cyber Security	4	4	30	70	100	3
	PC-H1	B23-CAP-706	Practical	4	8	30	70	100	6
	CC-HM1	B23-CAP-707	Cloud Computing	4	4	30	70	100	3
8	CC-H4	B23-CAP-801	Design & Analysis of Algorithms	4	4	30	70	100	3
	CC-H5	B23-CAP-802	Software Project Management	4	4	30	70	100	3
	CC-H6	B23-CAP-803	Emerging Trends in Information Security	4	4	30	70	100	3
	DSE-H2	B23-CAP-804	Big Data	4	4	30	70	100	3
		Or							
		B23-CAP-805	Machine Learning	4	4	30	70	100	3

JOB PROSPECTS AND HIGHER EDUCATION OPTIONS AFTER BCA

Sector	Job Prospects	Higher Education Option
Private Sector	<ul style="list-style-type: none"> • Software Developer/Engineer • Web Developer • Systems Analyst • Network Administrator • Database Administrator • IT Support Specialist • UI/UX Designer • Data Analyst • Business Analyst • Quality Assurance Tester • IT Consultant • Project Manager 	<ul style="list-style-type: none"> • Master's in Computer Applications (MCA), • Master of Science (M.Sc) in Computer Science • Master's in Information Technology (M.Tech IT) • Master of Business Administration (MBA) with specialization in Information Technology Management • Postgraduate Diploma in Computer Applications (PGDCA) • Certification Courses in specialized areas of IT (e.g., Cloud Computing, Cybersecurity, Data Science, Web Development)
Government Sector	<ul style="list-style-type: none"> • Civil Services (UPSC) • Public Sector Undertakings (PSUs) Recruitment • Government IT Departments and Ministries • Higher Education (Teaching/Research), • Banking Sector (IT Officer) • Defence Services (Technical Officer) • Railway Recruitment Board (RRB) • Staff Selection Commission (SSC) Exams. 	

Glossary

Major and Minor Subject: Major subject is a subject of choice in a discipline which equips student with knowledge, understanding and skills majorly in the chosen field of learning contributing to the core of the programme.

Minor subject the is a student to gain a broader understanding in addition to the Major subject.

The courses in a Major discipline will be Core Courses(CC), Discipline Specific Elective(DSE) courses, Discipline Skill Enhancement Course(DSEC), Practicum (PC), Project/Dissertation, while Minor courses will include CC as well as Vocational Courses(VOC).

Core Course(CC):A compulsory course of a subject aimed to cover the basics of Major/Minor subject.

Discipline Specific Elective(DSE) Course: A discipline specific elective course is a course aimed to impart options for varied knowledge and s kills in the specialized fields of a Discipline/subject.

Discipline Skill Enhancement Course (DSEC) :A discipline skill enhancement course is a course aimed to provide knowledge, skills, training and competencies in a discipline/subject.

Vocational Courses(VOC):A vocational course is focused on practicalwork,preparing students for a particular skilled profession. Such courses develop capacities for sustenance,work,and economic participation and develop values and sensibilities toward physical work and dignity of labour.

Other Courses

Multidisciplinary Courses(MDC): These courses are based on introductory knowledge in a subject.A student will study MDC in a subject other than the discipline of Major and Minor subjects to gain knowledge across the disciplines.

Ability Enhancement Courses (AEC): These courses aim at enabling the students to achieve competency in the English language o or Modern Indian Languages(MIL) with special emphasis on language and communication skills.

Skill Enhancement Courses(SEC):These courses aim at imparting practical skills, hands-on training,soft skills, etc. to enhance the employability of students.

Value-Added Courses (VAC): These courses aim at enabling the students to acquire and demonstrate the acquisition of knowledge and understanding of human values,Indian Knowledge System(IKS),contemporary India,environmental science and education,digital and technical solutions,health and wellness,yoga education,sports and fitness,etc.



SANATAN DHARMA COLLEGE AMBALA CANTT

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Mobile No for any query: 8901286677, 9466070790

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<https://forms.gle/6ZiRY3KaT47253Ee6>

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