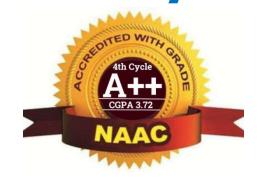


Professional Courses Admission Brochure(2024-25)

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)







A message from the Principal



Dr. Rajinder Singh Principal, Sanatan Dharma College Ambala Cantt

Welcome to our esteemed college, a pioneer in delivering topnotch 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.

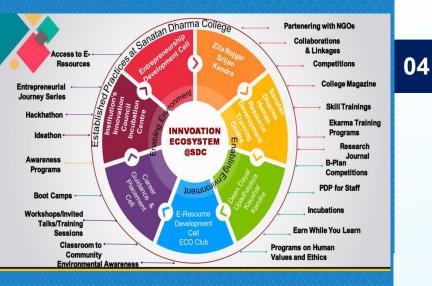
After 107 years of its commitment to excellence in Higher Education, the institute extended its mission of integration of ICT in teaching learning and made a conscious effort to train campus community and teaching fraternity nation-wide. E-content development cell of the college has trained more than 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

TOP NOTCH DIGITAL INFRASTRUCTURE

- 19 Smart Class rooms
- Super Nova Magnifier, Screen reader, Braile
- 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

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**
- Academic, Special **Concessions-Sports**, 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

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 Upadhaya Kaushal Kendra**
- **Environment Club**
- **E-Resource Development Cell**

03

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

TOPPERS IN
COMPETITIVE EXAMS
250+

3000+

PLACEMENTS (LAST 2 YRS)

90%

PASS %

200+

ENTREPRENEURS

Jobs under EWYL Scheme 150+

GENERATED 200+

> Joint Ventures incubated under Zila Rojgar Srijan Kendra

> > 14

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

BACHELOR OF SCIENCE(HONS) INFORMATION TECHNOLOGY B.Sc. (Hons) IT) Seats: 40

Eligibility:

and at least 50% marks in **Aggregate**

BACHELOR OF BUSINESS ADMINISTRATION (B.B.A) Seats: 60

Eligibility:

English as compulsory sub and at least 40% marks aggregate



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

			Ţ	JG Programme(Interdisciplin	ary):SchemeD				
Semester	Subject- 1CoreCourses	Subject- 2CoreCours es	Subject- 3CoreCo urses	Minor/V ocational	Multidisci plinaryC ourses	AbilityEnhan cementCours es	SkillEnhance mentCourses	Value Added Course s	Total Credit s	ExitOption
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
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	52 credits
Internship of 4credits of 4-6 weeks duration after 2ndsemester										
Ш	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 dura	ation after 4 th sem	ester			
V	CC-A5 4credit	CC-B5 4credit	CC-C5 4credit	CC-M5(V) 4credit			Internship# 4credit		20	Bachelor in Discipline
VI	CC-A6 4credit	CC-B6 4credit	CC-C6 4credit	CC-M6 4creditC C-M7(V) 4credit					20	with132credits
Credits	Major=72	Minor=24	MDO	C=09	SEC=09	AEC=08	Internship04	VAC=06	To	tal=132

pursue 3 year UG Programme without taking exit option.

BACHELOR OF VOCATION-SOFTWARE DEVELOPMENT (B.VOC SD)

Our B.Voc Software Development program is designed to groom proficient software developers equipped with industry-relevant skills. Students undergo intensive training in programming languages, software engineering principles, and application development frameworks. The curriculum emphasizes practical learning through project-based assignments, workshops, and industry internships. With a focus on emerging technologies and innovation, students graduate with the expertise to design, develop, and deploy software solutions tailored to meet the demands of modern enterprises. Whether pursuing careers in software development, IT consulting, or entrepreneurship, graduates are poised for success in the dynamic digital landscape.

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	Durationof exam (Hrs) T + P
1	CC-A1	B23-CSD-101	Problem Solvin gthrough C	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B2	B23-CSD-102	Foundations of Computer Science	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C3	B23-CSD-103	Logical Organization of Computer	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-M1	B23-CSD-104	Mathematical Foundations forComputer 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-CSD-201	Object Oriented Programming using C++	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B2	B23-CSD-202	Introduction to Web Technologies	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C2	B23-CSD-203	Concepts of Operating Systems	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-M2	B23-CSD-204	Mathematical Foundations forComputer 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							

		Dool	I	1		1		1	
	450.0	Pool							
	AEC-2	To be taken from AEC Pool							
3	CC-A3	B23-CSD-301	Java OOP Foundations	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B3	B23-CSD-302	Linux and Shell programming	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C3	B23-CSD-303	Data Base Technologies	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-M3	B23-CSD-304	Quantitative Foundations of Computer Science	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	MDC-3	To be taken from other department							
	SEC-3	To be taken from SEC Pool							
	AEC-3	To be taken from AEC Pool							
4	CC-A4	B23-CSD-401	Data Structures and Applications	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B4	B23-CSD-402	Front-end Development	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C4	B23-CSD-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)	B23-CSD-404	Introduction to Cloud Computing	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
5	CC-A5	B23-CSD-501	Software Engineering	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B5	B23-CSD-502	Back-end Development	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C6	B23-CSD-503	Network Infrastructure and Data Communication Technologies	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC- M5(V)	B23-CSD-504	Introduction t	3	3	20	50	70	3
	. ,		oInternet of Things						
			Practical	1	2	10	20	30	3
	SEC-4	Internship @ 4 Credits							
6	CC-A6	B23-CSD-601	Programming using Python	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-B6	B23-CSD-602	Advanced Web Development	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC-C6	B23-CSD-603	Artificial	3	3	20	50	70	3

			Intelligence			1	1	1	
			Practical	1	2	10	20	30	3
	00.146	D22 CSD C04							
	CC-M6	B23-CSD-604	Introduction to Block Chain	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
	CC- M7(V)	B23-CSD-605	Mobile App Development	3	3	20	50	70	3
			Practical	1	2	10	20	30	3
7	CC-H1	B23-CSD-701	Software Testing	4	4	30	70	100	3
	CC-H2	B23-CSD-702	Data Mining & Warehousing	4	4	30	70	100	3
	CC-H3	B23-CSD-703	Design and Analysis of Algorithms	4	4	30	70	100	3
	DSE-H1	B23-CSD-704	NoSQL Databases	4	4	30	70	100	3
		Or							
		B23-CSD-705	Machine Learning	4	4	30	70	100	3
	PC-H1	B23-CSD-706	Practical	4	8	30	70	100	6
	CC-HM1	B23-CSD-707	Data Analytics using Python	4	4	30	70	100	3
8	CC-H4	B23-CSD-801	Software Project Management	4	4	30	70	100	3
	CC-H5	B23-CSD-802	Digital Image Processing	4	4	30	70	100	3
	CC-H6	B23-CSD-803	Open Source Software	4	4	30	70	100	3
	DSE-H2	B23-CSD-804	Emerging Trends in Software Development	4	4	30	70	100	3
		Or							
		B23-CSD-805	Information Security	4	4	30	70	100	3
	PC-H2	B23-CSD-806	Practical	4	8	30	70	100	6
	CC-HM2	B23-CSD-807	DevOps	4	4	30	70	100	3
	OR								
	CC-H4	B23-CSD-801	Software Project Management	4	4	30	70	100	3
	CC-H5	B23-CSD-802	Digital Image Processing	4	4	30	70	100	3
	CC-HM2	B23-CSD-807	DevOps	4	4	30	70	100	3
	Research	B23-CSD-808	Project/ Dissertation	12				300	

Job Prospects after B.Voc Software Development

Job Role	Description
Software Developer/Engineer	Develops, tests, and maintains software applications, systems, and solutions using programming languages and tools.
Web Developer	Designs and develops websites and web applications, implementing client-side and server-side technologies.
Mobile App Developer	Creates and maintains mobile applications for various platforms such as Android and iOS using programming languages.
Database Administrator	Manages and maintains databases, ensuring data security, integrity, and accessibility for organizational needs.
Quality Assurance Tester	Tests software applications to identify defects, bugs, and inconsistencies, ensuring high-quality deliverables.
UI/UX Designer	Designs user interfaces and user experiences for software applications, ensuring usability and accessibility.
System Analyst	Analyzes organizational needs and designs information systems to meet business requirements effectively.
IT Support Specialist	Provides technical assistance and support to end-users, troubleshooting hardware, software, and network issues.

Technical Writer	Creates technical documentation, manuals, and guides to explain complex software concepts and procedures.
Project Manager	Oversees software development projects, ensuring timely delivery, budget adherence, and stakeholder satisfaction.
Freelancer & Entrepreneur	

Higher Education Options after B.Voc Software Development

- Master's in Vocation Software Development
- Master's in Computer Applications (MCA)
- Master of Science (M.Sc) in Computer Science
- 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)

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

Website: www.sdcollegeambala.ac.in

Office Contact No: 0171-2630283

Mobile No for any query: 8901286677, 9466070790 Click on the link for attending Counseling Day @SDC

https://forms.gle/6ZiRY3KaT47253Ee6

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