



Dnyanprassarak Mandal's
College and Research Centre (DMC)

Assagao, Bardez, Goa, 403507

"Inspiring, Igniting and Transforming to Excel"

Affiliated to Goa University and Recognized by UGC

Accredited by NAAC with 'A' grade (4th Cycle) and a CGPA of 3.15 / 4.00

ISO 9001 : 2015 and ISO 14001 : 2015 Certified

PROSPECTUS

2026-27



BACHELOR OF COMPUTER APPLICATIONS (BCA)
(AICTE APPROVED)

BACHELOR OF COMPUTER APPLICATIONS (BCA) DEGREE PROGRAMME

FOR ADMISSION CONTACT:

- | | |
|--|------------|
| 1. Mr. Prasann S. Mayekar, Assistant Professor | 9860386884 |
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(For more details log on to: www.dmscollege.ac.in)

For any admission related queries email to: bca.admissions@dmscollege.ac.in

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From the Principal's Desk....



It gives me immense pleasure to welcome you to Dnyanprassarak Mandal's College and Research Centre, Assagao, Goa. The College is managed by Dnyanprassarak Mandal which is the oldest educational institution in the state of Goa. This is a multi-faculty college offering a wide range of programs in the faculties of Arts, Science, Commerce, Management and Technology. It is the first college in the state of Goa to offer Ph. D. Programmes in the subjects of Commerce and Chemistry. The college also has a wide array of short term certificate courses which are conducted at regular intervals throughout the year. Besides the regular formal courses, the college conducts a number of co-curricular and extra-curricular activities which help nurture the talent, develop the personality and transform students into complete Men and Women who are ready to face the challenges of the new world.

The college, over the years, has created excellent infrastructure and has recruited highly qualified, talented and dedicated teaching and non-teaching staff who help to transact the teaching - learning process very effectively.

This prospectus will give you an overview of what we offer our students and also help you to learn more about college and the courses of your choice.

I wish you all very fruitful and enriching college days.....

Prof. Dilip B. Arolkar

PRINCIPAL

COLLEGE PROFILE



Dnyanprassarak Mandal's College and Research Centre is located on a spacious campus on the top of Assagao hills in Bardez taluka of Goa. It is well connected by road from Mapusa town as well as the coastal villages. In the post liberation Goa, there were no facilities for higher education in Commerce in North Goa. This need was fulfilled in the year 1974 when Dnyanprassarak Mandal set up the first Commerce College in Mapusa to cater to the aspirations of the people who wished to graduate in the field of Commerce. In order to adapt itself to the rapidly changing socio-economic global scenario, the college decided to diversify and introduce a wider range of programs. The College introduced the Arts and Science faculties from the year 1996, B.B.A., B.C.A. and M.Com. in 2006, M.Sc. (Pharmaceutical Chemistry) in 2009, PhD in Commerce (2012) and Ph. D. Chemistry (2014), M.Sc. (Organic Chemistry) in 2017 and M.Sc. (Environmental Science) in 2021. From the academic year 2019-20, Honours Programs in History, Economics, Mathematics and Geology were introduced. This steady progress in the academic and infrastructure of the college has been made possible through the support and generosity of the Management of Dnyanprassarak Mandal, Mapusa which was founded way back in 1908 and had unwaveringly moved ahead in the field of education right from K.G. (Primary Education) to P.G. (Higher Education) and Research.

The college is accredited by NAAC four times. In the fourth cycle the college has retained a score of 3.15/4.00. The college has had the distinction of being ranked among the top 150 colleges of India in 2017 under the National Institutional Ranking Framework (N.I.R.F.) of the Ministry of Human Resource Development., Government of India. The college is ranked among the top 150 colleges of India. B.C.A. -113; B.Sc. – 130; B. A. – 108, B.B.A. -152 and B.Com - 120 by India Today Magazine in 2023. The college was one among the 338 Higher Education Institutions of India selected by the Ministry of Human Resource Development, Government of India under the **UNNAT BHARAT**

ABHIYAN. The college was awarded the “**A**” grade under the “**Swatchatam Mahavidyalaya Scheme (cleanest college)**” by Goa University. It was also awarded the “**Lokmat Goan of the Year**” Award under the “**Best Educational Institution Category**” by the daily Lokmat in May, 2016.

The college constantly strives to provide the best of everything to the students for their all-round development. The dedicated teaching, administrative and support staff, along with the Principal, Vice-Principal and Management members have only one goal in mind – the welfare of the student community. Towards this end, the college organizes several co-curricular and extra-curricular activities to provide a platform for students to exhibit their skills and creativity, thus making the college life of the students a rich, rewarding and satisfying experience.....

PRINCIPAL

Prof. D. B. Arolkar

M.Sc; Ph.D; M.B.A.
Professor and Principal



VICE PRINCIPAL

Dr. M. Shanthi

M.A; B.Ed;(SET); Ph.D.
Associate Professor and Vice Principal



FACULTY PROFILE

Mr. Prasann S. Mayekar

Designation: Assistant Professor & BCA Co-ordinator
Qualification: M.Phil (Comp. Sc); M.Sc(IT);
M.Sc(Electronics); PGDST; NET;
Industry Experience: 07 years
Teaching Experience: 18 years;
E-Mail: prasann@dmscollege.ac.in



Ms. Sonali Raikar

Designation: Assistant Professor
Qualification: M.C.A., SET
Teaching Experience: 18 years
E-mail : sonali@dmscollege.ac.in



Ms. Anupa Naik

Designation: Assistant Professor
Qualification: M.C.A.
Teaching Experience : 13 years
E-Mail: anupa@dmscollege.ac.in



Ms. Monisha John

Designation: Assistant Professor
Qualification: M.C.A, SET
Experience: Teaching: 12 years 6 months;
Non-Teaching: 1 year
E-mail: monisha@dmscollege.ac.in



Mr. Krishnarao M. Rane Sardesai

Designation: Assistant Professor
Qualification: M.C.A. NET, SET
Teaching Experience: 7 years 06 months
Industry Experience: 06 months
E-mail : krishnarao@dmscollege.ac.in



NATIONAL EDUCATION POLICY

The National Education Policy (NEP) 2020 is a landmark reform in the field of education in India. The policy aims to transform the Indian education system and make it more holistic, flexible, and multidisciplinary. It was approved by the Union Cabinet in July 2020 and replaces the previous policy of 1986. The NEP 2020 envisions India as a global knowledge superpower and aims to equip students with the necessary skills to meet the demands of the 21st century. The salient features of the NEP 2020 at the higher education level are mentioned below:

Multidisciplinary and flexible education: The NEP 2020 emphasizes multidisciplinary and flexible education at the higher education level. It proposes a four-year undergraduate program that will allow students to choose subjects from different streams and disciplines. This will enable students to acquire a broad-based education and develop interdisciplinary knowledge and skills. The policy also recommends the establishment of a National Research Foundation (NRF) to foster a research culture in higher education institutions.

Quality assurance and accreditation: The NEP 2020 lays great emphasis on quality assurance and accreditation in higher education. It proposes the establishment of a single higher education regulator called the Higher Education Commission of India (HECI). The HECI will replace the existing regulatory bodies like the University Grants Commission (UGC) and the All India Council for Technical Education (AICTE). The HECI will be responsible for accrediting institutions, developing standards for quality assurance, and ensuring compliance with these standards.

Internationalization of higher education: The NEP 2020 seeks to internationalize higher education in India by promoting collaborations between Indian and foreign institutions. It proposes the establishment of a National Education Technology Forum (NETF) to facilitate the use of technology in higher education. The policy also recommends the setting up of campuses of foreign universities in India and encourages Indian universities to establish campuses abroad.

Vocational education: The NEP 2020 recognizes the importance of vocational education in higher education. It proposes the integration of vocational education with mainstream education and the creation of vocational courses that are on par with traditional academic courses. The policy also recommends the establishment of vocational education institutions that offer degree and diploma courses.

The NEP 2020 is a comprehensive and ambitious reform in the field of education in India. At the higher education level, the policy aims to promote multidisciplinary and flexible education, ensure quality assurance and accreditation, internationalize higher education, promote vocational education, and reform teacher education. The implementation of these reforms will require a concerted effort from all stakeholders, including the government, educational institutions, and students. The NEP 2020 has the potential to transform the Indian education system and make it more relevant and responsive to the needs of the 21st century.

NEP Guidelines

Facilitate the designing of Programme Structure and Syllabus for Four Year UG Degree based on the Curriculum and Credit Framework for Undergraduate Programmes (CCFUP) under the National Education Policy (NEP) 2020:

1. The Programme shall be based on a system of time-integrated Units called Credits.

2. A Course can be designed so as to comprise any or combination of Lectures/ Tutorials/ Laboratory Work/ Field Work/ Outreach Activities/ Project Work/ Vocational Training/ Viva/ Seminars/ Term Papers/ Assignments/ Presentations/ Self-Study/ Internships and such others.
3. One Credit of a Theory Course shall be equivalent to 15 contact hours of learning activities including lecture, group discussion, seminar, problem solving, assessment and such others (each class of 1-hour duration).
4. Each course may have only lecture component, lecture and tutorial component, lecture and practicum component, only a practicum component.
5. One Credit of a Tutorials shall be equivalent to 15 contact hours of engagement.
6. One credit of Practicum or laboratory work, community engagement and services, and field work shall have 30 hours of engagement.
7. One credit of Seminar or Internship or apprenticeship or Studio activities or Field Work /projects or Community engagement and service shall have 30 hours of engagement.

TYPES OF COURSES AND COURSE STRUCTURE:

A course may consist of only theory component, only practical component or theory and practical components. A course may consist of lectures, tutorials, practicum, seminar, internship, studio activities, field projects, community engagement or a combination of the above forms as recommended by the Board of Studies. For courses which have theory and practical components, the ratio of 75% theory and 25% practicals shall be maintained with separate heads of passing.

A Programme shall comprise of the following categories of courses:

(a) Disciplinary/Interdisciplinary Major (Core) A Major course will provide a student the opportunity to pursue in-depth study of a particular subject or discipline.

(b) Disciplinary/Interdisciplinary Minors Students may opt for Minor courses from Disciplinary/ Interdisciplinary areas including skill- based courses relating to a chosen Vocational Education and Training. Students who successfully complete the requisite number of courses (as specified in the OA-XX 11.2 & 11.3) in a Disciplinary or an Interdisciplinary area of study other than the chosen Major, shall qualify for a Minor in that discipline or in the chosen Interdisciplinary area of study. To qualify for a Minor, a student shall have to earn a minimum of 12 Credits in the chosen Minor. A student shall declare at the end of Semester II the Courses s/he wishes to opt for under Minor.

(c) Vocational Education and Training (VET) VET will form an integral part of the undergraduate programme to impart skills along with theory and practical. A minimum of 12 credits will be allotted to the Minor stream relating to VET and these can be related to the Major or Minor Discipline or choice of the student. A student shall have to declare courses under VET at the end of Semester II.

(d) Multidisciplinary Courses (MC) UG students are required to undergo 3 introductory-level courses relating to any Broad Discipline that they have not undergone at the HSSC level as given below: Natural and Physical Sciences, Mathematics, Statistics and Computer Applications Library, Information and Media Sciences, Commerce and Management, Humanities and Social Sciences.

(e) Value-Added Courses (VAC) The following are the VAC common to all UG students: Understanding India, Environmental Science/Education, Digital and Technological Solutions, Health & Wellness, Yoga Education, Sports, Fitness, courses related to National Service Scheme (NSS), National Cadet Corps (NCC) and such other courses.

(f) Ability Enhancement Courses (AEC) Students shall achieve competency in a Modern Indian Language (MIL) and in the English Language with special emphasis on communication, reading and writing skills. Foreign students may opt additional English language courses or any other foreign language courses, instead of MIL.

(g) Skills Enhancement Courses (SEC) SECs shall focus on practical skills, hands-on training, soft skills and such other courses to enhance the employability of the students.

(h) Summer Internship / Apprenticeship (I) Students shall be provided with opportunities for Internships in the summer term. Students shall undergo Internships in a Firm, Industry, Organizations, Laboratory with Faculty and Researchers (in their own or other HEIs), Health and allied areas, Local Governments (such as Panchayats and Municipalities), Parliament or elected representatives, media, artists, crafts persons, NGOs and other such organizations to improve their employability.

(i) Community Engagement and Service (CES) CES may be a part of the summer term activity or part of Major or Minor Course depending upon the Major Discipline. CES is intended to expose students to the socio-economic issues in society so that the theoretical learnings can be supplemented by actual life experiences to generate solutions to real life problems.

(j) Minor Project/ Field-Based Learning (P) The Project work is compulsory and is offered in lieu of a Major Course. Field-based learning may be a part of summer term activity.

(k) Dissertation (D) A student opting for a 4-Year Bachelor's Degree (Honours with Research) is required to take up a Research Project under the guidance of a Faculty member.

(l) Extra-curricular Activities (EA) Sports, Adult Education/Literacy initiatives, mentoring school students and other similar activities. National Service Scheme (NSS) and/or National Cadet Corps (NCC) courses that are not opted by a student as VAC may be permitted under EA.

BACHELOR OF COMPUTER APPLICATIONS (B.C.A)

INTRODUCTION

The Bachelor of Computer Applications degree programme aims at giving quality education in the field of Computer Applications. It trains the student with comprehensive inputs from the rapidly changing IT industry, and enables them to take up the challenges of the corporate world. The student will get diversified knowledge of Programming Languages, Computer Organization, Software Development, Web and Mobile development, Database Management, 2D/3D Animation and Multimedia Technology, UI/UX Design, Cloud Computing, Data Science etc. The students are well-versed with Windows/Linux/Android Operating Systems. The primary focus of the course is to train the student to tackle real-life problems by means of projects, workshops, internships. Successful completion of this course opens up options like M.C.A., M.B.A., M.Sc. etc. and to make careers in the IT industry.

AFFILIATION

Bachelor of Computer Applications (B.C.A.) degree programme is affiliated to Goa University.

OA-38 ORDINANCE GOVERNING THE UNDERGRADUATE (UG) PROGRAMMES

Ordinance **OA-38** of Goa University describes the general rules, duration, degree to be awarded, eligibility for admission, class strength, credit requirements, programme structure, scheme of examination and award of grades.

PROGRAMME STRUCTURE

Semester I and II

Se m es te r	Major - Core (3T + 1P)	Minor (4 T)	MC (3 T)	AEC (2T)	SEC (1 T + 2 P)	I	D	VAC (2 T + 2 T)	Total Credi ts
I	Major- 1 CSA-100 (Problem Solving and Programmi ng)	Minor -1 MAT-111 Elementary Mathemati cs	COM-133 Marketing for Beginners	AEC -1 ENG- 151 (Communica tive English: Spoken and Written)	SEC-1 CSA - 141 (Office Automatio n and PC Troublesho oting) OR CSA-142 (Python Programmi ng)			i) VAC 101: Environmental Studies 1 ii) VAC 105: Constitutional Values and Obligations iii) VAC 111: Awareness of Cyber Crimes and Security	20
II	Major- 2 CSC-100 (Computer Organizati on)	Minor-2 MAT-112 Elementary Statistics	COM-137 Tourism and Hospitality Managemen t	AEC-2 ENG- 152 (Digital Content Creation in English)	SEC-2 CSA - 143 (Data Analytics using Spreadshee ts) OR CSA-144 (2D Animation)			iv) VAC 115: Health and Wellness OR VAC 119: Health and Physical Education	20

Semester III and IV

Semester	Major -Core	Minor	MC	AEC	SEC	I	D	VAC	Total Credits
III	<p>Major- 2 CSA-200 (Data Structures) (3T+1P)</p> <p>Major- 3 CSA-201 (Database Management Systems) (3T+1P)</p>	<p>Minor -3 CSA-211 (Reasoning Techniques) (3T + 1 Tutorial)</p> <p>OR</p> <p>CSA-213 (Computer Organization & Architecture Fundamentals) (3T + 1P)</p>	<p>MC-3 CSA-231 (Cyber Law and Ethics) (3T)</p> <p>OR</p> <p>CSA-232 (Digital Ecosystem) (3T)</p> <p>OR</p> <p>CSA-233 (Website Design) (2T+1P)</p> <p>OR</p> <p>CSA-234 (ERP) (2T+1P)</p> <p>OR</p> <p>CSA-235 (Latex) (2T+1P)</p> <p>OR</p> <p>CSA-236 (Multimedia Essentials) (2T+1P)</p>		<p>SEC-3 CSA-241 (Multimedia Applications) (1T + 2P)</p> <p>OR</p> <p>CSA-242 (Search Engine Optimization) (1T + 2P)</p> <p>OR</p> <p>CSA-243 (3D Animation) (1T + 2P)</p>				20

IV	Major-4 CSA-202 (Web App Development) (3P + 1Tutorial)	Minor-4 VET CSA-221 (Digital Marketing Fundamental s) (3T + 1P) OR CSA-222 (Data Analysis) (3T + 1P) OR CSA-223 (Advanced JavaScript) (3T + 1 P)							20
	Major-5 CSA-203 (Agile Methodologies) (3T+1P)								
	Major-6 CSA-204 (Object Oriented Concepts) (3T+1P)								
	Major-7 CSA-205 (Web Technology) (2T)								

Semester V and VI

Semester	Major -Core	Minor	MC	AEC	SEC	I	D	VAC	Total Credits
V	CSA-300 UI-UX Design (3T+1P) CSA-301 Full Stack Development (3P + 1T) CSA-302 Cloud Computing (3T + 1P) CSA-303 Internet Technologies (2T)	CSA-321 (Internship) (4) (VET)				CSA-361 (Summer Internship) (2)			20
VI	CSA-304 Cyber Security (3T+1P) CSA-305 Mobile App Development (3P+1T) CSA-306 Machine Learning (3T+1P) CSA-307 Project (4)	CSA-322 Social Media Marketing & Analytics (3T + 1P) (VET) OR CSA-323 E-Commerce Applications (3T + 1P) OR CSA-324 Modern Frameworks (3T + 1P)						20	

Note: Any changes to the programme structure will be notified to the students as and when received from Goa University.

FEE STRUCTURE OF THE ACADEMIC YEAR 2025-2026:

Sr. No.	Description	F.Y.B.C.A.	S.Y.B.C.A.	T.Y.B.C.A.
PART-A				
1	Tuition Fee\$	42,001	42,881	39,620
2	University Administrative Fee**	1,000	1,000	1,000
3	Development Fee**	1,000	1,000	1,000
4	Library Fee**	1,000	1,000	1,000
5	Computer Laboratory Fee**	3,000	3,000	3,000
6	Gymkhana Fee**	174	174	174
7	Other Fee/Student Activity Fee**	174	174	174
8	Student Aid Fund**	58	58	58
9	Registration Fee*#	765	Nil	Nil
10	Caution Money Deposit*	70	70	70
13	Library Deposit*	70	Nil	Nil
11	I.A.I.M.S/ Samarth 'e-GOV Suite*!	225	225	225
12	Academic Re-structuring & Development*!	1500	1500	1500
	Total	51,037	51,082	47,821
PART-B				
14	Examination Fees***/**:			
a	Examination Registration Fee	***	***	**
b	Statement of Marks	***	***	**
c	Examination Form	***	***	**
d	Theory Examination Fees per credit	***	***	**
e	Practical Examination Fee	***	***	**
	Total of Part- B	0	0	0
PART-C				
15	Application Fees	500	500	500
16	Student I Card Fee*	150	150	150
17	P.T.A. Fee*	500	500	500
18	Alumni Association Membership Fee	0	0	300
	Total of Part- C	1150	1150	1450
	Grand Total (A+B+C)	52,187	52,232	49,271

NOTE:

- 1 As per the Directorate of Higher Education Circular No.:
** DHE Circular No. 9/30/97/DHE/Vol-II/1039 Dt. 07.04.2015
- 2 As per the Directorate of Higher Education Circular No.:
\$ DHE Circular No. DHE/ACAD-1/SU-01/FEE.FIX./S.F.C./322/2023/961, Dt. 22.05.2024
- 3 As per the Goa University Notification No.:
As per Goa University Notification No. GU/Acad.Col./Fees/2025-26/19, Dt.08.05.2025
*** F.Y & S.Y. - B.C.A. Examination fees as per the subject to the notification by Goa University (at time of Examination)
** T.Y.B.C.A. Examination fees will be collected by Goa University or as per notification by Goa University
- 4 As per the Directorate of Higher Education Circular No.:
! DHE Circular No. ACAD/Fee. Fix/S.F.C./28/DHE/2023/1639 Dt. 24.05.2023
*As Per the Tentative fee structure received vide E-mail from DHE, Dated. 25.05.2023
- 5 Above fees are subject to revision as per the directives of Goa University and the Government of Goa from time to time.

RULES FOR REFUND OF FEES

As per circular No.GU/1/REF.TUIT.FEE/173/2000/983 dated 26/05/2001, in case of self- financing courses where new admissions are not possible, no fees are to be refunded. However, the fees shall be refunded only in the cases where new students are admitted in place of students who have cancelled their admission.

Once the student has been granted admission to the college, he/she shall pay the prescribed fee within the specified time. Late payment of fees shall be subject to a fine or cancellation of admission, at the discretion of the Principal. A student once admitted will be considered as duly enrolled unless he/she informs the Principal in writing about his/her intention to leave the college at least a week before the commencement of the second term. In case no such intimation is received, the student shall be liable to pay full fees for the second term.

ADMISSION PROCEDURE & DOCUMENTS REQUIRED

PROCEDURES FOR ADMISSION TO THE FIRST YEAR B.C.A 2026-27:

1. Candidate(applicant) will register for the BCA programme on the Directorate of Higher Education(DHE) portal and the portal generates an application number.
2. Applicant list is shared with respective colleges.
3. College announces and conducts an entrance Test as stipulated by Goa University in the ordinances.
4. College prepares a merit list and sends to DHE.
5. Admission commencement based on merit list and as per guidelines from the DHE.

DOCUMENTS REQUIRED:

- An original mark sheet of H.S.S.C./Equivalent Examination
- Two attested copies of the mark sheet of H.S.S.C./Equivalent Examination.
- An original copy of H.S.S.C. leaving certificate
- One attested copy of the H.S.S.C. leaving certificate
- Attested photocopy of caste certificate issued by competent authority (if applicable).
- Eligibility certificate (in original) issued by Goa University
- Migration certificate (for those students who have passed Std. XII or any other Equivalent Examination through any other recognized Board other than Goa Board)
- Income Certificate issued by Competent Authority (if applicable)
- Five copies of recent passport sized photographs in FORMAL. (Hard Copy and Soft Copy in JPEG format)
- Student signature in Soft Copy JPEG format.
- AADHAR Card copy.



VISION

**EDUCATION FOR SOCIAL
TRANSFORMATION AND
NATION BUILDING**

MISSION

**TO PROACTIVELY CONTRIBUTE
TOWARDS THE CREATION OF AN
INTELLECTUALLY DYNAMIC SOCIETY
WHICH IS COMMITTED TO
EXCELLENCE, HUMAN DIGNITY AND
THE REALISATION OF HUMAN
POTENTIAL**