Chowgule Education Society's

Parvatibai Chowgule College of Arts and Science

(Autonomous)

Accredited by NAAC with Grade 'A+'
Best Affiliated College-Goa University Silver Jubilee Year Award

PROSPECTUS

POSTGRADUATE DIPLOMA PROGRAMMES

2025-26

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Introduction

Parvatibai Chowgule College of Arts and Science, Margao-Goa, founded in 1962, is an Autonomous institution of higher education within the Goa University system since 2014. This premier educational institution has been accredited by the National Assessment and Accreditation Council (NAAC) at Grade A+.

Since becoming autonomous the College introduced the Choice Based Credit System (CBCS) in all its undergraduate and postgraduate educational programmes. Besides the CBCS, the revision of the programmes was done by taking into account the employability issues. The College is presently involved in strengthening its outcome-based education and evolving it further so as to meet the needs of the present-day generation.

The College is directed by its mission and vision to seek higher distinctions and impart quality education with innovative curriculum, appropriate teaching-learning-evaluation methodologies, twenty-first century technologies and better infrastructure.

Under the choice-based credit system the College offers core courses and elective courses in each of its educational programmes both at the undergraduate and postgraduate levels. Its postgraduate programmes are governed by Autonomy Ordinances (AO), AO-5 for master's degree programmes and AO-9 for postgraduate diploma programmes.

The postgraduate diploma programmes (one year) offered on self-financed basis are:

1. Postgraduate Diploma in Clinical Genetics and Medical Laboratory Techniques (PGDCGMLT)

2. Postgraduate Diploma in Geoinformatics (PGDGIS)

The following postgraduate diploma programme (one year) offered is Government aided:

3. Postgraduate Diploma in Computer Applications (PGDCA)

The postgraduate diploma programmes are one-year-two-semesters full time programmes carrying a minimum of 40 credits. The courses are conducted using a range of teaching-learning-evaluation methodologies evolved conceptually and through the use of ICT processes. For instance the outcome-based-education followed by many teaching departments is a conceptually evolved methodology, whereas the flipped classroom has evolved as a result of the use of ICT and LRMS. The aim of excellence has been a driving force for innovative developments in learning programmes at the College.

A student's learning is evaluated in the courses through continuous assessments using various evaluation methodologies and through a comprehensive semester-end examination. The evaluation is done not only to determine a student's grasp of the subject-knowledge in the course but also to determine the extent of other skills acquired such as critical-thinking, analysing, out-of-the-box thinking, oral and written communication, referencing, etc. The performances of a student in the various courses are graded and a CGPA (Cumulative Grade-Point Average) is calculated so as to ascertain the student's overall performance in the programme.

This prospectus provides information, in a nutshell, on these above-listed programmes for the benefit of students who are deciding about taking admission to any of these programmes.

How to apply for admission:
For all postgraduate diploma programmes, apply online
http://apply.chowgules.ac.in
Complete the online admission form as per instructions provided therein.

For further details and queries:
Email: **sfpadmission@chowgules.ac.in**

Post-Graduate Diploma in Clinical Genetics and Medical Laboratory Techniques

(Self-Financed)
Programme Code: PGD-CGMLT

Duration: One Year (Two Semesters)

Duration for the PG Diploma in "Clinical Genetics and Medical Laboratory techniques" is a two semester programme which includes internship/hands-on training in Clinical Laboratories / Pathology Lab / Genetic Lab.

Aim of the Programme

Overall the course is designed to provide a strong foundation in all areas of Human genetics and medical lab techniques with opportunities for hands-on laboratory and clinical experience. The curriculum includes lectures, practicals, classroom discussions and intensive practical training (Internship). The Objective of the courses is to enable the students in having job opportunities in Research and Development and in medical field. The course syllabus is designed considering the need for trained technicians and technologists in the genetic and pathological field. This self financed, job oriented course will meet the demand for genetic and pathological technicians in diagnostic labs and hospitals.

Eligibility and Selection Procedure

To be eligible for admission to the programme leading to the award of Post Graduate Diploma in Clinical Genetics and Medical Laboratory Techniques, the candidate must have passed the Bachelor of Science degree examination of Goa University or equivalent examination of any other UGC recognized University, securing a minimum of 45% marks on aggregate or equivalent Grade or as specified for a Programme. Biological Science candidates will be preferred.

Total Number of Seats (including reserved seats): 15

Credits required for completing the Programme: 40

PGDCG&MLT	Odd semester	Even semester
Courses	Discipline specific core (DSC)= 16	Discipline specific core (DSC)= 16
	Discipline specific elective (DSI)= 04 (Internship)	Discipline specific elective (DSI)= 04(Internship)
Credits	20	20
Total credits: 40		

Course Evaluation

To pass PGD programme in Clinical Genetics and Medical Laboratory Techniques, candidate shall secure a minimum of 40% marks in theory as well as practical component of each course. The assessment of the Courses shall be based on the examination at the end of each semester. The examination shall consist of either a comprehensive written test, Case Studies, Comprehensive laboratory examination; Activity based practicals and Lab visit reports. The examination of the Core/elective Courses shall normally carry a maximum of 100 marks (Theory = 50 mks, Practical = 50 mks). The final grade shall be computed based on the candidate best performance in the minimum number of credits required for the award of the Diploma.

Course Structure
Post Graduate Diploma Programme in Clinical Genetics and Medical Laboratory Techniques
(PGDCG&MLT) 2025- 2026

SEMESTER	COURSE CODE	DISCIPLINE SPECIFIC CORE (DSC)	DISCIPLINE SPECIFIC ELECTIVE (DSE) (ANY 01)	NUMBER OF CREDITS	CONTACT HOURS	MARKS
	PGDP-CGMLT-DSC-401	Clinical Biochemistry I		Theory = 02 Practical = 02	Theory = 30 Practical = 60	Theory = 50 Practical = 50
	PGDP-CGMLT-DSC-402	Clinical Biochemistry II		Theory = 02 Practical = 02	Theory = 30 Practical = 60	Theory = 50 Practical = 50
I	PGDP-CGMLT-DSC-403	Clinical Microbiology (General and Systematic)		Theory = 02 Practical = 02	Theory = 30 Practical = 60	Theory = 50 Practical = 50

	PGDP-CGMLT-DSC-404	Hematology and Transfusion Medicine		Theory = 02 Practical = 02	Theory = 30 Practical = 60	Theory = 50 Practical = 50
	PGDP-CGMLT-DSI-401		Internship at Hospital/Clinics.	04	120	Report/ Portfolio = 100
	PGDP-CGMLT-DSE-401		SWAYAM course: Analytical Techniques	Theory = 04 credits	Swayam Online	Theory = 100
	PGDP-CGMLT-DSE-402		SWAYAM course: Essentials Of Biomolecules: Nucleic Acids And Peptides	Theory = 04 credits	Swayam Online	Theory = 100
II	PGDP-CGMLT-DSC-405	Clinical Genetic Techniques I		Theory = 02 Practical = 02	Theory = 30 Practical = 60	Theory = 50 Practical = 50
	PGDP-CGMLT-DSC-406	Clinical Genetic Techniques II		Theory = 02 Practical = 02	Theory = 30 Practical = 60	Theory = 50 Practical = 50
	PGDP-CGMLT-DSC-407	Clinical Parasitology, Mycology and Virology		Theory = 02 Practical = 02	Theory = 30 Practical = 60	Theory = 50 Practical = 50
	PGDP-CGMLT-DSC-408	Clinical Pathology and Histopathology		Theory = 02 Practical = 02	Theory = 30 Practical = 60	Theory = 50 Practical = 50
	PGDP-CGMLT-DSI-402		Internship at Hospital/Clinics	04	120	Report/ Portfolio = 100
	PGDP-CGMLT-DSE-403		SWAYAM course- Biomolecules: Structure, Function In Health And Disease	Theory = 04 credits	Swayam Online	Theory = 100
	PGDP-CGMLT-DSE-404		SWAYAM course- Immunology	Theory = 04 credits	Swayam Online	Theory = 100

For additional information contact:

Ms. Regina Fernandes   rvf003@chowgules.ac.in

Post-Graduate Diploma in Computer Applications

(Government Aided)

Programme Code: PGD-CA

Duration: One Year (Two Semesters)

Objective of the Programme:

The PGDCA Programme aims to give the students a sound background in theory and practice of Computer Application in various fields. It comprises various Software courses, Skill Based Elective courses, courses on Educational Technology and latest emerging trends in the field of IT.

The choice of Elective courses is based on different career options, since the students who enroll for this course are from different domains like Arts, Science, Commerce etc. The syllabus of the course conforms to the requirements prescribed by the Goa University with upward mobility to the M.Sc. (IT) programme subject to meeting other eligibility criteria of the programme.
The PGDCA is recognized as a professional course by the Goa University.

On completion of the programme, the career opportunities available would be in the field of Software Testing, Digital Marketing, Web Development, Network Administration, MobileApplication Development, Teaching etc. The College has a Placement Cell which assists students in placements. Students are also encouraged to do Internships even though it is not an essential part of the curriculum.

Programme Specific Outcomes (PSO) for PGDCA

At the end of the programme the students will be able to:

PSO-1	Understand the core concepts of Computer Science, including algorithms, programming languages, operating systems and networking.
PSO-2	Apply programming skills and software engineering principles to design, develop, test, and implement real-world software solutions.
PSO-3	Utilize diverse computing tools, platforms, and emerging technologies to design, develop, and manage digital solutions across various domains, including education, business, and user-centric applications.
PSO-4	Build and manage databases and create custom web and software applications tailored to meet specific client requirements and business needs.

Eligibility and Selection Procedure:

To be eligible to apply for the programme, the candidate must be a graduate having completed B.Com / B.A/ B.Sc / B.B.A/ B.C.A /B.Ed / B.E/ or any other degree.

The Final selection of students is done based on the Department's Counseling sessions with the eligible applicants.

Total Number of Seats (including reserved seats): 30

Credits required for completing the Post-Graduate Diploma in Computer Applications: 40

Sr. No.	Nature of Courses	Credits Required
1	Core Courses	20
2	Elective Courses	20
	Total Credits	**40**

Course Structure – Post-Graduate Diploma in Computer Applications

PGD-CA	Semester I	Semester II
	First Semester	**Second Semester**
Courses	Core Courses Credits - 12	Core Courses Credits - 08
	Elective Courses Credits - 08	Elective Courses Credits - 12
	Total First Semester Credits = 20	**Total Second Semester Credits = 20**

Course Information(a)

Sr.no	Course Titles	Course codes	Course Credits
	CORE COURSES		
	SEMESTER I		
1	Problem Solving and Introduction to Programming	PGD-CA.C.1	4
2	Web Design	PGD-CA.C.2	4
3	Database Management Systems	PGD-CA.C.3	4
	SEMESTER II		
4	Fundamentals of Computer System and Networks	PGD-CA.C.4	4
5	Software Engineering	PGD-CA.C.5	4
All courses entail 03 hours of lectures and 02 hour of practical work per week			

Course Information (b)

Sr. No.	Course Titles	Course Codes	Course Credits
	ELECTIVE COURSES		
1	Multimedia	PGD-CA.C.E1	4
2	E-Learning	PGD-CA.C.E2	4
3	HCI	PGD-CA.C.E3	4
4	E-commerce Development	PGD-CA.C.E4	4
5	Digital Marketing	PGD-CA.C.E5	4
6	Network Administration	PGD-CA.C.E6	4
7	Software Testing	PGD-CA.C.E7	4
8	Server Side Programming	PGD-CA.C.E8	4
9	Data Structures	PGD-CA.C.E9	4
10	Assessment and Evaluation for Learning	PGD-CA.C.E11	4
11	Instructional Design	PGD-CA.C.E12	4
12	Content Management System	PGD-CA.C.E13	4
13	Introduction to Data Analysis	PGD-CA.E.16	4
All courses entail 03 hours of lectures and 02 hour of practical work per week			

For additional information contact:

Ms. Ashweta M. Shivolkar (Course Coordinator)

aaf016@chowgules.ac.in **OR** computerscience@chowgules.ac.in

*NOTE: The PSOs and the list of electives for the PGDCA program are subject to approval by the upcoming Academic Council.

Post-Graduate Diploma in Geoinformatics

(Self-Financed)

Programme Code: PGD-GIS

Duration: One Year (Two Semesters)

Objective of the Programme:

The aim of Post graduate diploma in Geoinformatics (PGDGIS) is to develop students with strong knowledge of Geospatial technology and professional skills through various activities and initiatives of the department enabling them to acquire software skills and knowledge in order to improve their employability.

Eligibility and Selection Procedure:

A graduate with a minimum score of 50% (CGPA of 5.3 and above in case of CBCS) in the final Examination of any B.Sc. programme or B.A. with Geography from a recognized University/Institute is eligible. Students with courses related to earth science may also apply; however, their selection will be based on their performance in the Aptitude Test in Geography, conducted by the department.

Total Number of Seats (including reserved seats): 20

Credits required for completing the programme: 40

Sr. No.	Nature of Courses	Credits Required
1.	Core Courses	20
2.	Elective Courses	20
	Total Credits	**40**

Course Structure - Post-Graduate Diploma in Geoinformatics

PGD-GIS	Odd Semester	Even Semester
	First Term	**Second Term**
Courses	Core Courses - Credits 12	Core Courses - Credits 08
	Elective Courses - Credits 08	Elective Courses – Credits
	Total First Semester Credits = 20	**Total Second Semester Credits = 20**

Course Information (a)

Sr. No.	Course Title	Course Code	Course Credits
	CORE COURSES		
	Semester I		
1	Basics of GIS and GPS	PGD-GIS-C1	4
2	Geo-statistics	PGD-GIS-C2	4
3	Basic of RS and Photogrammetry	PGD-GIS-C3	4
	Semester II		
4	Spatial Analysis and Modelling	PGD-GIS-C4	4
5	Advanced Remote Sensing and GIS	PGD-GIS-C5	4

Course Information (b)

Sr. No.	Course Title	Course Code	Course Credits
	ELECTIVE COURSES		
1	Digital Cartography	PGD-GIS-E1	4
2	Principles of Computer and Programming	PGD-GIS-E2	4
3	Digital Image Processing	PGD-GIS-E3	4
4	GIS for Environmental Management	PGD-GIS-E4	4
5	Pilot Project, Filed Work and Tour	PGD-GIS-E5	4
6	Application of GIS in Agriculture and Soil	PGD-GIS-E6	4

For additional information contact:

Mr. Utkarsh Gaonkar   uug000@chowgules.ac.in

Campus Discipline and a Conducive Environment

The College is making concerted efforts to provide relevant education of global standards in a disciplined and conducive environment. For this purpose the College follows policies pertaining to the Library, Academic Integrity and Avoidance of Plagiarism, Prevention of Sexual Harassment, Information Technology and Information Systems Security, Intellectual Property Rights. These policies are available on the college website. Students are required to abide by these policies. These policies and following regulations are some building blocks of this environment and all students are required to take note of them and follow them.

Computers Usage Rules

College encourages students to use laptops and to bring their personal laptops to the class. Students can also use the Computer Lab. Users must be fully aware of the usage rules and the IT protocol of the College. Disciplinary action will be taken against violators.

Vehicle Parking Rules

The College is not responsible for the safety of vehicles parked at the vehicle parking area of the college.

Persons must vacate the parking space after parking the vehicles. The college is also NOT responsible if the vehicle is towed away if parked in 'No Parking Area'.

Stand against Ragging

The College strictly follows the anti-ragging policy of Goa University.Whoever directly or indirectly commits, participates in, abets or instigates others to violation shall be suspended/expelled/rusticated and shall be liable to pay a fine.

Important Note

The Principal may amend the admission rules at his discretion. The Principal's decision in all matters related to admission shall be final.

Apply online

http://apply.chowgules.ac.in