

GOA COLLEGE OF ARCHITECTURE

A Government of Goa Institution

at

Dr. T. B. Cunha Educational Complex

Altinho, Panaji

Goa State

INSTITUTIONAL DEVELOPMENT PLAN (IDP)

Submitted to

Directorate of Higher Education, Government of Goa

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INTRODUCTION

The Bachelor of Architecture (B. Arch.) programme of 5 years duration in Goa came into existence from the year 1982. It was started under the University of Mumbai, but was soon brought under the newly formed Goa University from the year 1986-87. Goa College of Architecture was established in 1986 as an independent College at Panaji imparting technical education in architecture. Presently, it is the only Institute in the State of Goa offering a Bachelor of Architecture Degree programme in architecture. The college is funded by the Government of Goa and is affiliated to the Goa University. The present intake capacity for the undergraduate programme is 50 students per year, including the quota for EWS category. With the commencement of post graduate programmes in Master of Architecture in Urban Design and Master of Architecture in Sustainable Habitat, the Institution aims to add to the cultural climate that encourages an attitude towards higher learning within the college community, and to initiate a process establishing a language of architecture that is relevant to Goa in this millennium.

In the year 2013, New Curriculum for the undergraduate B. Arch. programme was introduced, which brought about a lot of flexibility and the system of choice-based courses, whereby teaching could be taken up even beyond the premise of the college. This enabled students to undertake courses at other centres or Institutes and the credit courses offered by the Goa University under the Chairs such as DD Kosambi, Mario Miranda and Anthony Gonsalves Chairs. The academic process at UG level aims to address the timeless qualities of Architecture on the one hand and the need to reinterpret these in the context of Goa at the beginning of the 21st Century, on the other hand. Throughout the five-year program, these concerns are present, and with the aid of computers as well as the encouragement of traditional drafting skills, students engage in a series of design projects that exercise them in fashioning buildings and their relationship to the natural environment. The last two years of the course concentrate on these and many other professional aspects, such as legal and statutory requirements, in order to ensure that buildings of the future are appropriate and well-designed to suit the needs of society. The Practical Training/internship is for 20 weeks positioned in the 8th Semester of the B.Arch. Programme is amking a very good value addition.

The Charles Correa Chair was created at the college by the Government of Goa with a joint initiative from the Charles Correa Foundation and the Goa College of Architecture, as a tribute to him for his contribution to the college, as the Chairman of the Advisory Committee, and his contribution to Goa and India in the field of Architecture and Education. During his tenure as the Chairman of the Advisory Committee to the Goa College of Architecture, Ar. Charles Correa, an internationally renowned architect, professed that Goa should become a 'Laboratory of Learning,' for its unique urban character, quality of built environment as well as its unique historical architecture, a motto we try to emulate in our academic programmes at the college. Since its inception, International-level Charles Correa Chair-

Professor's position was held by Ar. Heinrich Wolff (South Africa), Prof. Edoardo Narne (Italy), Prof. Juan Rolland (UAE); and the National level Charles Correa Chair-Professor's position was held by Dr. Kaiwan Mehta, Ar. Chitra Vishwanath, Ar. Soumitro Ghosh, Ar. Sameep Padora, Ar. Quaid Doongerwala, Ar. Kapil Gupta, and Dr. Meghal Arya.

The college has conducted many successful academic programmes such as the International collaboration with Padua University- Italy & Universities in Portugal, the technical publications, 5 Arch-Expo - the annual Exhibition & Award event showcasing the works of students of all 5 years, and the All Goa inter-college festival called 'Vistara' and many other activities. These events create the opportunities for the college fraternity to shine and express new ideas to the profession and the public at large

M. Arch. Programme at the Goa college of Architecture The Master of Architecture programmes started in 2020, to cater to the urgent need to train professionals to design urban built environment of the twenty-first century city. Presently, the tools of Regional and Urban Planning, and the act of designing individual buildings that constitutes architecture, sadly lack the clarity and cohesion needed for producing a 'good city.' More than anywhere else this glaring gap is most evident in cities of India, with its uncontrolled and chaotic developments, loss of coherence in urban form and character, and decreasing quality of urban public life. There is a need for urban-design/sustainable-habitat-design to go beyond the conventional two-dimensional planning approach so that single buildings in the city does not become isolated icons of development amidst the landscape of urban blight. Equally important is the thoughtful integration of urban landscape and sustainable development, to design resilient cities to handle global phenomenon of climate change.

Unlike most of the cities in the rest of India, Goa has a special case of urbanism. In order to study and examine Goa's architecture and urbanism, we need a new and contemporary theory, so that the learnings can be implemented effectively. This requires systemic documentation of the existing urban and rural built environment of Goa and the surrounding ecologically sensitive regions. Through the establishment of M. Arch. Programme at the GCA, a sustained effort could be put to collect and collate data at various scales (regional level, settlement level and building typology level). The Programme aims create a platform to build Goa/coastal region-specific theory of urbanism/sustainable habitation, the knowledge of which will help in coming up with building guidelines, while also suggesting model development strategies for large scale projects. More importantly, the programme intends to work directly with city-level and local-level civic bodies, in order to provide think-tank, as well as enable the working of public participation to address various issues of development and conservation of urban built environment.

Therefore, we need to adopt a philosophy that architectural design as well as urban design, apart from catering to traditional social/political/economic problems, must develop the focal approach of resilience, environmentally sustainable, integrated planning to mitigate the short-term as well as long-term impacts of climate change.

Presently the College is located at Dr. T. B. Cunha Educational Complex at Altinho, Panaji. There are long-term plans of getting a full-fledged Campus for the Goa College of Architecture under consideration by the Govt. of Goa, and the same is being pursued. The College is constantly reviewing and upgrading its learning resources such as Library, Computers, Laboratory, Carpentry & Metal Workshop, AV Rooms, O. A. T., Conference Hall and Utilities such as Canteen, Stationery Shop etc., in addition to the drafting studios and the normal appurtenances of a well-run Architectural College.

1.0 INSTITUTIONAL BASIC INFORMATION

1.1 INSTITUTIONAL PROFILE

Name of the Institution	Goa College of Architecture
Head of the Institution	Dr. Ashish K. Sinai Rege
Contact details	Dr. T. B. Cunha Educational Complex, Altinho, Panaji - 403001 Goa AISHE Code -C-30832 Ph: 0832-2436435 Fax: 0832-2227144
Website	www.qcarch.goa.gov.in
IQAC Coordinator	Dr. Ashish K. Sinai Rege, Professor & Principal (email - prin.architecture@unigoa.ac.in) 7588154577
NEP Coordinator	Suhas Gaonkar, Associate Professor suhasgaonkar@gmail.com 9823510812
RDI Coordinator	Dr. Annirudha Pawar , Professor prof.asp-gcarch.goa@gov.in 9458159851
TLET Coordinator	Dr. Vishvesh P. Khandolkar , Associate Professor visvesh.k@goa.gov.in 9011086872
NAAC Accreditation Status	Not participated
NIRF Ranking	Not participated
NAAC Accreditation Status	Not applied for Accreditation

CoA approval	Yes . Up to 2022-23
AICTE Approval	Yes . Up to 2022-23
Financial Status	Government
Under National Education Policy (NEP 2020) would your institute prefer to be	Part of Higher- Educational Institution (HEIs) cluster

1.2 INSTITUTIONAL SWOC ANALYSIS

Strengths

Goa College of Architecture is the only Institution in Goa State imparting education in the field of architecture. The greatest strength of the college is the faculty with diverse specialization, devoted teaching. The institute also has a curriculum in tune with the latest knowledge and and maintains a balance between research and practical knowledge. It also has a strong presence of alumni across India and worldwide helps in getting their expert services on visiting basis. A lot of expertise is available through Design Chairs and Charles Correa Chair for short-term programmes of high quality. A publication of high quality based on Dissertation is published annually for the last 10 years.

Weaknesses

The Goa College of Architecture has shifted to four different campuses in the past 40 years and need its own campus with more infrastructure including hostel facilities for students. Dependence on Visiting faculty for certain subjects and technical inputs. No interaction between PG and UG due to their different campuses. Updated database of Alumni/Practicing Architects and the Alumini Association are required.

Opportunities

Being a Governmental institute tie up opportunities with Goa Government scope to become a centre of excellence in architecture and planning research, and innovation. Infusion of Web-based learning platforms. MOUs with different institutions and research organizations through has been initiated, however the scope to be expanded.

Challenges

To increase connectivity with the building and construction industry. Technical expertise in technology-based designs and system approaches. Research alignment with Goa and Pan India focus could be developed. Catering to the technological change in the industry.

2.0 INSTITUTIONAL DEVELOPMENT PLAN

2.1 VISION

To establish a conducive environment for academic excellence to develop responsible, educated, and professional architects who can contribute to the efficient, unique and sustainable built environment in Goa State, India and across the Globe.

2.2 MISSION

Our aim is to take the locational advantage of Goa and to embark upon an expansion programme with the aim of becoming one of the 10 top Institutes imparting architectural learning in the country by the end of this decade.

2.3 GOAL

To establish a conducive environment for learning with much greater flexibility in the choice of courses so that the students can contribute to the built environment in any context in Goa as well as any part of the Globe.

2.4 OBJECTIVES

1. To provide the students with proper 'orientation' which addresses the tasks of advanced Skill-set Development, Group Dynamism and development of appropriate design methodology.
2. To equip the students gradually with the knowledge and complexity of various issues connected with the practice of architecture in the context of Goa in particular and global context in general.
3. To instill in them the competence and confidence to enable them to start their enterprenuership journey and contribute in innovative and constructive ways to the development of Goa and India.
4. To develop the focal approach of making design resilient, environmentally sustainable and integrated with broader context of planning to mitigate the short-term as well as the long term impacts of climate change.

2.5 DEVELOPING MOTIVATED AND ENERGIZED FACULTY

The greatest strength of the college is that the faculty members are with diverse specialization, devoted to teaching, and have very good intellectual abilities. The institute also has a very good curriculum which balances research and practical knowledge.

Short Term Strategies and Initiatives (2 years)	
1	Enrichment of teaching-learning process through module development through in-house faculty, which could be used for web learning processes
2	Encouragement and provision of Facilities for Faculty members for research and taking up consultancy projects
3	Support for faculty members to attend workshops, Seminars and Conferences at National and International levels
Mid Term Strategies and Initiatives (5 years)	
1	Incentives for conducting research, publications, and Paper presentations
2	Encouragement for new modules for teaching and flexibility for the development of the curriculum
3	Encouraging research and consultancy opportunities through local government sector.
Long term (10 years) Goals	
1	Opportunities for multidisciplinary and collaborative research with incentives and deputations
2	Research and consultancy opportunities through the private sector

2.6 TEACHING, LEARNING AND EDUCATION TECHNOLOGY

Short Term Strategies and Initiatives (2 years)	
1	Alignment of curriculum to NEP objectives and CoAs model Curriculum and alignment of existing modules to objective and skill-based learning. Implementation of outcome-based education (OBE)
2	Development of a structured mechanism for performance outcome of students and evaluative reforms
3	At least one module to be taken up through MOOC , NETEL per semester
4	Student mentor scheme to be implemented
Mid Term Strategies and Initiatives (5 years)	
1	Design charrettes with various consultants for integrated design pedagogy
2	Coursework and theory modules to update through online courses
3	Integration of multi-disciplinary elective courses through distance education
4	Remote studio projects through design and construction projects
Long-term (10 years) Goals	
1	Infusing of new advanced software training programmes directly from

	software companies
2	Building Construction industry coordination through seminars and joint research projects
3	On hands training at all levels based on real-life projects
4	Multi-disciplinary research through grants and support

2.7 RESEARCH DEVELOPMENT AND INNOVATION

Attracting research funds, improving quantity and quality of research publications, training faculty for research, preparing faculties for research programmes, developing an environment conducive for research

Short Term Strategies and Initiatives (2 years)	
1	Creation of policy for research and identification of thematic research area based on existing expertise
2	Research capacity building through workshops and industry interaction
3	Promote and facilitate of submission of research projects to Govt and non Govt funding agencies
4	Financial support/ funding for faculty to work on select research projects
Mid Term Strategies and Initiatives (5 years)	
1	Consultancy work to be taken up in faculty specialization at the institution or collaborative level with existing infrastructure facilities
	Incentives/Grants for faculty research projects
2	Financial support/ assistance for attending, presenting and publication of research projects for faculty/ students at national and international level conferences/ seminars
3	Trainings/ Documentation for filing of IPR (Patents/copyrights)
Long-term (10years) Goals	
1	Establishment of research labs for thematic area research
2	Manpower hiring for research projects through pool of fresh graduates
3	IPR filing drives through experts inputs, publications and monetization of research outputs

2.8 INDUSTRY-ACADEMIC PARTNERSHIP

Goa College of Architecture works closely with several professional bodies like Indian Institute of Architects, Indian Institute of Interior Designers for construction/building industry partnership for guest lectures, expert as jury members for studio projects. Various site visits are also organized to architectural projects and construction material workshops for study and documentations.

Short Term Strategies and Initiatives (2 years)	
1	Guest lectures of experts from architecture and the construction industry
2	Site visits to ongoing and completed architectural projects
3	Research collaborations and joint curriculum module developments
4	Industry collaborations for material manufacture, Professional organizations and service consultants
Mid Term Strategies and Initiatives (5 years)	
1	Design Consultations and pre-design consultations for Government and Public projects
2	Research Collaboration for live projects
3	Feasibility and Environmental consultancies
Long term (10 years) Goals	
1	Project Design Consultations and services
2	Post-construction audits for energy and sustainability
3	Training programmes for short-term courses for construction industry staff on services and construction management
4	Finishing schools for industry-ready students through orientations and workshops

2.9 INSTITUTIONAL PLACEMENT PLAN FOR STUDENTS

Professional training is integrated in the Architecture college curriculum and provided at the 8th Semester in which the students join offices across India and abroad for 20 weeks. The students usually join Architect's offices or start their own practice after the final year.

Short Term Strategies and Initiatives (2 years)	
1	Orientation programmes for students to establish their own start-up offices and freelancing works
2	Establishing placement and training cell for job requirements and recommendations
3	Annual research on workforce requirements at the State level for understanding industry requirement
4	Competitive exam training like GATE for Postgraduate studies and aptitude orientation for future studies
Mid Term Strategies and Initiatives (5 years)	
1	Robust data generation for vacancy and placement services for lateral job shifts and new placements
2	Diversification and specialization module offerings for diversification in job markets
3	Regular upgradation and addition of new course modules through industry requirement approach with experts

Long-term (10 years) Goals	
1	Placement drives and job fairs for all level requirements for Building and Construction Industry
2	Market surveys for skill set requirements for placement
3	Training programmes for in-service architects and related staff in the construction sector

2.10. ACHIEVING THE TARGET FOR ACCREDITATION

Action plan for participating in NAAC & NIRF, Changes in course curriculum is required for alignment to NEP and NAAC accreditation clarity in course objectives and appropriateness in credit scores.

Short Term Strategies and Initiatives (2 years)	
1	Compilation of academic data-based requirements of accrediting bodies
2	Course objective-based learning and assessment systems with a compilation of student work in different categories
3	Training of faculty and non-teaching staff for orientation of accreditation
4	Data management system for easy access for faculty and non-teaching staff
Mid Term Strategies and Initiatives (5 years)	
1	Preparation of data documentation/ reports as sought by various accrediting bodies from different sections
2	Role and responsibilities for visiting teams for ease of access to data and facilitation for accreditation
Long term (10 years) Goals	
1	Continuation of data updating and participation in annual status reports on accreditation
2	Initiative to get the status of Centre for Excellence in academics at the National level
3	Continuous training and upgradation of infrastructure, facilities and faculty learning

2.11 INCUBATION AND START-UP

Professional training is integrated in the Architecture college curriculum and provided at 8th Semester in which the students join offices across India and abroad for 20 weeks. The students usually join Architect's offices or start their own practice after the final year

Short Term Strategies and Initiatives (2 years)	
1	Rejuvenation of Consultant cell and proposal to the government

2	Encouragement of faculty to take up architectural projects individually and as a group
3	Pro bono work for other institutions and government agencies
4	Research and architectural assistants for institution Consultancy projects and research with grants
Mid Term Strategies and Initiatives (5 years)	
1	Establishment of co-working space for fresh graduates
2	Consultancy cell to take up projects at the Pan India level
Long term (10 years) Goals	
1	Enabling of co-working space for development of resources and Consultancy
2	Capacity building for Research and consultancy projects

2.12 ALUMINI ENGAGEMENT/ACTIVITIES PLAN

Having started in 1982, Goa College of Architecture has a strong pool of alumni who are located across the world at varied high posts. GCA alumni have been part of visiting faculty to GCA and have been actively participating in guiding in Final year dissertation and thesis programmes and training of the students. Although there has not been a formal active Alumni Association, several alumni activity participate in college functions through organizations like IIA, IIID and ISOLA.

Short Term Strategies and Initiatives (2 years)	
1	Formation of Worldwide alumni Association
2	Identification of alumni from different parts of the world and creating database of the same
3	Planning of get together and reunions for alumni
4	Involving alumni for short-term workshops and lectures
Mid Term Strategies and Initiatives (5 years)	
1	Financial contribution to the strengthening of infrastructure facilities and student prizes and scholarships
2	Participation in college activities and teaching short semester terms
3	Joint partnership with educational institutes where alumni are teaching
4	Alumni network for training and job placements
Long term (10 years) Goals	
1	A structural system of alumni participation in college activities and curriculum development
2	Creation of Alumni Fund Corpus for Funding of activities
3	Inclusion of highly motivated and successful alumni as part of advisors and participation management as the board of directors

2.13 BASIC INFRASTRUCTURE DEVELOPMENT PLAN

Currently, Goa College of Architecture operates through its campus located at Altinho, which is also shared by Goa College of Music. The Post Graduate Department operates through the Goa Polytechnic Panaji campus, also located at Altinho. The campus has limited space and is constraint to operate. Govt of Goa has approved the development of Women's Wing at Goa Polytechnic campus with the construction of additional floor space over the existing building and is at the planning and tendering stage.

Short Term Strategies and Initiatives (2 years)	
1	Refurbishment of a computer lab with new softwares, scanners, plotters and 3d printers with laser cutting equipment
2	Setting up Urban sustainability (Environmental and Climate) research labs with infrastructure and equipment facilities with appropriate training for equipment and data generation
3	Universal access facilities for the existing campus
Mid Term Strategies and Initiatives (5 years)	
1	Construction of new campus facilities with hostel and mess facilities for UG and PG students
2	Sports and Co-curricular facilities development
Long term (10 years) Goals	
1	Self -Sustainable in energy, water, and waste management facilities for the campus with state-of-the-art facilities for education and research as a Centre of excellence
2	Centre for research and policy driver for Govt of Goa in planning, development and sustainability in built environments

2.14 SKILL DEVELOPMENT OF NON-TEACHING STAFF

Goa College of Architecture has skeletal support staff, which can be divided into Administrative, Accounts and Academic staff. Administrative staff includes Head clerk, UDCs, LDCs, and Multitasking Staff which are part of the common cadre employed through the Directorate of Technical Education and transferable within the Technical education department. The Accounts staff consists of AAO, Cashier and LDC. The AAO is deputed through common cadre system of the Directorate of Account and is a transferable position. The Academic staff includes the library staff and the carpenter and welder workshop attendants.

Short Term Strategies and Initiatives (2 years)	
1	Short-term training programmes through GIPARD on efficient office management
2	Computer training with data management systems for file movement and accessibility
3	Best practices for Office management, including Online movement of letters and files and circulars
Mid Term Strategies and Initiatives (5 years)	
1	Digital attendance systems
2	Result orientated staff
3	Training and motivational lectures
Long term (10 years) Goals	
1	Incentives for higher education for support staff
2	Welfare measures and healthy ambience
3	Self-appraisal and testing

2.15 ANY OTHER INITIATIVE FOR THE STUDENT'S AND INSTITUTIONAL GROWTH

Short Terms Strategies and Initiatives (2 years)	
1	National Association of Students of Architecture (NASA) participation in Trophy Competitions (Funding and Mentoring)
2	Financial support for deserving students for tuition fees and participation in National competitions
3	Participation in National Tours and National level workshops
4	Career counselling for Graduates
Mid Terms Strategies and Initiatives (2 years)	
1	Project of Boys and Girls Hostel and Mess facilities
2	Preparation of GATE/SEED and other competitive exams
Long term (10 years) Goals	
1	Entrepreneurship mentoring and hand-holding for the establishment of Practice and product development
2	Joint projects with Consultancy cell and recent graduates