Parvatibai Chowgule College of Arts and Science
Autonomous

Accredited by NAAC with Grade A (CGPA Score 3.41 on a 4 Point Scale 3rd Cycle)
Best affiliated College-Goa University Silver Jubilee Year Award.
Awarded DBT Star College, NIRF Rank 151 - 200 (2019)

Vision

"To be among global leaders
in imparting relevant education
of highest standards in a disciplined
and conducive environment"

Mission

"To continue to be pioneers of change using cutting edge
educational inputs and technology, providing equal
opportunities to all and inculcating social
and moral values that will
transform society and the
nation at large

Contents

PART I

INTRODUCTION OF COLLEGE

Parvatibai Chowgule College of Arts and Science is a premier educational institution in the State of Goa, offering courses at Graduate, Postgraduate levels and Ph.D. Level. The College is accredited by NAAC with Grade 'A' (CGPA of 3.41 on a 4-point scale in the 3rd cycle). The college was adjudged by Goa University as the "Best Affiliated College" at the time of its Silver Jubilee celebrations in the year 2009; it was also conferred with the "Best Educational Institute" award by Business Goa in the year, 2014.

Having been conferred with the autonomous status by University Grants Commission in June 2014, this college became the first autonomous college in the State of Goa. Our other recent achievements include, placement in Rank band '151-200' in the India Rankings 2019, for Colleges in the National Institutional Ranking Framework conducted by the Ministry of Human Resource Development, Govt. of India. It has been also selected by Ministry of Science and Technology, Government of India, under 'DBT Star Scheme', the only college in Goa to receive this grant. The college was honoured with the 'Best Internship Partner' award by Goa Rugby Union at the Goa Rugby Awards 2018.

Since its inception, the College has always been at the forefront in educational innovation. Therefore, has been pioneer in introducing relevant courses and Programmes. The various programmes offered at the undergraduate level in the Arts Stream are: English, French, Hindi, Konkani, Marathi, Portuguese, Economics, Geography, History, Mathematics, Philosophy, Psychology, and Sociology. Programmes in the Science Stream are: Biochemistry, Biotechnology, Botany, Chemistry, Computer Science, Geography, Geology, Mathematics, Statisitics, Physics, and Zoology, and the Programmes in B.Voc. Stream are Software Development, Multimedia and Digital Film making, 3D Media and Virtual Reality-VFX.

The various Post Graduate Degree programmes offered are M.Sc. in Information Technology, M.Sc. in Analytical Chemistry, M.Sc. in Geoinformatics, M.A. in Geography, M.A. in Economics, M.A. in Hindi, M.A. in Child Psychology and Child Development, M.A. in English. The various Post Graduate Diploma programmes offered are Post Graduate Diploma in Computer Applications (PGDCA), Post Graduate Diploma in Geoinformatics and Post Graduate Diploma in Clinical Genetics and Medical Laboratory Techniques. The Department of Geography and Hindi offer Ph.D. Programmes.

Creation of knowledge remains a priority in this institution, with faculty members of most departments actively involved in research activities. The College organises numerous State/National/International Conferences, Workshops and Seminars. Numerous faculty members have been awarded research grants by various State and National funding bodies viz. University Grants Commission, Department of Science and Technology, Department of Biotechnology of the Government of India, Indian Council for Social Science Research, ESRI-India, Mineral Foundation Goa, and Government of Goa. Presently there are more than ten ongoing Research projects.

The College has State-of-the-art infrastructure. Science laboratories with facilities for research, multimedia-equipped auditoriums, classrooms, conference room, campus-wide Wi-Fi network, computer labs, web-based virtual infrastructure for teaching-learning (CLAAP/Google

Classrooms, C-mail, Online Library), computerized library, well equipped faculty offices, FIFA accredited football ground with field turf, multipurpose ground, gymnasium and fitness Centre, sports medicine and physiotherapy Centre, open-air seating arrangements, cafeteria, well maintained rest-rooms, spacious well-laid four-wheeler and two-wheeler parking grounds and new administrative offices.

This institution also renders various support services that seek to provide motivation for students to excel. These support services include, the Office of Information Technology, Estate Office, Student Support Services, Centralized Printing Facilities and a Co-operative store. Two prominent student guidance facilities are available at the College: Staff Advisory Programme (mentoring) and Student Support Services. Mentoring of students is an integral part of our educational system, providing guidance and encouragement. Mentors play a key role in this college as they nurture students and help them remain connected and engaged, thus strengthening students' performance. Student Support Services of our College has various arms such as Writing Centre, Career & Personal Counseling Centre (CPCC), Business English Certificate (BEC) Training, and Centre for Portuguese Language & Culture (CPLC).

To meet the Infrastructural requirements under autonomy, the college has been able to develop specialized centers like Teaching Learning Center, Translation Centre, central research lab, examination center and student's activity center. The Center for Teaching and Learning which aims to educate faculty and students on effective integration of ICT in regular teaching and learning and provide them with hands-on experience or training, and also, a Translation Center which is first of its kind in Goa to promote the growth of indigenous literature and knowledge, and introduce the students to the field of translation. Whereas, central research lab houses equipment's that will enhance research amongst students and faculty.

The College has Memorandum of Understanding and collaborations with many foreign and Indian educational institutes. Under this, regular faculty and student exchange programmes are regularly initiated wherein the students can pursue their programme at a foreign University for a semester or for an academic year and can avail transfer of credits.

The college has remained committed to its mission of being an agent of change, assisting not only its stakeholders but also, through them, the community and the nation at large. the institution seeks to actively create well rounded students with positive values, who go to become contributors to society.

1.1 Implementation of Autonomy

Parvatibai Chowgule College of Arts and Science having been affiliated to Goa University, has been conferred with Academic Autonomy by the University Grants Commission, the Goa Government and the Goa University during the academic year 2014-15. With the due permission of the Goa University, the College functions as an autonomous institution from the academic year 2015-16.

The course structure of the Autonomous College provides students an opportunity to study under the Choice Based Credit System (CBCS). Thus, students can select subjects of their choice, based on their individual aptitudes and career goals. The CBCS also provides a 'cafeteria' type approach in which the students can take courses of their choice, learn at their own pace, undertake additional courses and acquire more than the required credits, while adopting an interdisciplinary approach to learning. The College follows a uniform grading system, given its significant benefits over the

conventional marks system. Numerous educational institutions of repute in this nation and abroad have also opted for grading, given its merits. The grading system at Parvatibai Chowgule College will facilitate student mobility across institutions within and across countries, while also enabling potential employers to assess the performance of students. The College has formulated guidelines based on the UGC recommendations to produce uniformity in the grading system and in the computation of the cumulative grade point average (CGPA) based on the performance of students in the examinations.

Another progressive change being implemented is the Credit Based Semester System. It provides flexibility in designing curriculum and assigning credits based on the course content and hours of teaching. The semester system thus accelerates the teaching-learning process and enables vertical and horizontal mobility in learning.

1.1.1 Aim:

The key Aim is to address important requirement-related issues raised by employers about higher education in India and provide an upward educational mobility to students. The College endeavours to provide its students with good communication skills, develop their problem solving abilities, help them to think outside the box and find new ways of doing things, and to provide them with skills that aim at tackling the problems of "know how" and "know why" – i.e. develop in them the ability to question and engage deeply, enable them to take responsibility for their careers in acquiring new skills and develop a professional and ethical personality.

1.1.2 Objective:

1.To be able to respond to the needs of rapidly changing times: The College has been in the affiliating system for fifty years, initially under Bombay University and since 1986, under Goa University. As an institution of higher education, it is vital that this college has the necessary flexibility and freedom to design curriculum, syllabi, teaching- learning methods and evaluation methods that best meet contemporary needs.

2.To be able to address the specific needs of our students: The College wants to offer programmes and subject choices to students that would improve their competitive profiles both in the employment market and in higher education.

3.To be able to introduce innovations: The College would like to bring about necessary change in teaching and evaluation methodologies that would help make education learner-centric.

4.To adopt healthy practices: The College seeks to adopt healthy practices such as community service, extension activities and neighbourhood programmes and integrate these with the main curriculum.

1.2 Salient Features of Autonomy –PCCAS

1. Parvatibai Chowgule College has always been at the forefront of education and responded to the changing educational and employment scenario by offering need-based, industry-relevant and society-driven courses. The Autonomous status has brought in its wake the liberty to design curriculum consistent with the vision and mission of the college. All the programmes offer choice Based credit system, with combination of core, electives and compulsory courses. The syllabus for all the courses is based on feedback from the major stakeholders. All undergraduate programmes in Science and Arts offer 120 academic credits and 10 non evaluative credits whereas, B.Voc Programmes offer 180 credits.

2.Outcome Based Education (OBE) has been initiated by incorporating critical thinking, design mindset, computational thinking, effective communication, ethics, environment and sustainability. All programmes offered are supported by PEOs, POs, PSOs and COs.

3.The college has also introduced various Programmes and courses which are unique in Goa like Masters in Child Psychology and Development, Masters in Geoinformatics, B.Voc in Software Development and Media related Programmes. Compulsory courses viz. Research writing, Academic writing, Basic statistics and Cyber security to enhance their academic skills keeping in pace with the contemporary needs of the various employment stake holders.

4.The institution has taken stride in encouraging use of innovative Teaching-Learning pedagogies such as Flipped classroom/ Co-operative learning strategies, Problem based learning (PBL), POGIL, Case studies, Project based learning, Experiential learning etc. The IQAC has created a handbook on 16 modes describing pedagogy and rubrics of assessment. A few faculties have also published research articles on their teaching methodologies.

5. Non-Evaluative credits: Non-Evaluative credits are broadly divided into internship and life skill programmes. Internship is a compulsory component as a non -evaluative credit. Every student of the college has to compulsorily do 120 hours of Internship on campus or off campus. Internship enables the student to gain life skills, social skills, also a practical exposure inside or outside the campus. In 2014-2015, the number of internships were just 56, which has now increased to 300 plus per year.

Apart from Internship, to develop life skills, the college encourages students to participate in dance, music, learning a foreign language, personality development etc. This academic year, the college has initiated social credits, as a compulsory component, where every student will spend 60 hours doing community outreach programme. It would be working in an Old age home or beach cleanup campaign. Participation in sports, NCC and NSS are part of Non-evaluative credits

6. Autonomy has provided an opportunity to facilitate under global exposure to our faculty and students through various programmes-faculty student exchange programme, short- or long-term faculty visit, International Research and Scholarships. The Two highlights are: a) 2 credits as Non-Evaluative credits for student's participation in International Exchange Programme. b) Academic credit transfer, students can avail one third of the academic credits by studying for a semester or one academic year in a foreign university.

In this last five years, 160 number of students and 21 number of faculty participated in International Exchange Programmes. One of the visible outcomes that can be noted, number of students applying to foreign universities have increased.

7.Modes of assessment: College has made remarkable progress at streamlining the Teaching-Learning-Evaluation processes. The college emphasizes on use of multiple modes of evaluations to cater to the assessment of different types of learners. The college also encourages teachers to carry out research related to pedagogies of teaching-learning and evaluations. Both formative and Summative modes of assessments are undertaken. To ensure consistency of modes and processes for assessments carried out by faculty for all courses across the departments, the following initiatives were taken up: a) Policies/guideline documents were revised by the Exam Committee to streamline the process. b) Handbook on Assessment modes prepared by IQAC was shared with faculty of all the departments c)16 modes of evaluation were standardized with well-defined rubrics of assessments.

College Library
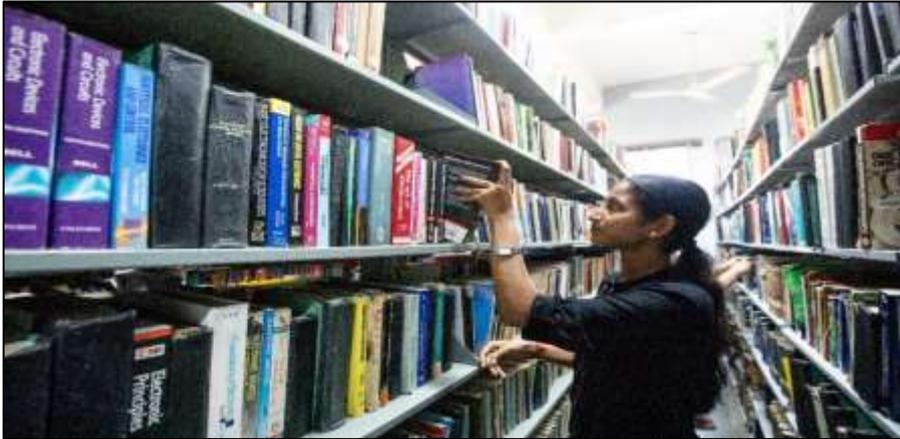
College Resource Centre

Academic Blocks

PART II

ADMINISTRATION

This section gives an overview of the ordinances, minutes of the statutory bodies (Governing Body, academic council, Board of studies and Finance committee), workload of teachers, Time-Table/Conduct of Examinations/Notification and declaration of Results and Fee structure.

2.1 Ordinances:

This section includes summary of ordinances from (2014 – 2019), in Table 2.1.1 and Table 2.1.2 The details of these are available in the ORDINANCES (attached).

Table 2.1.1: Autonomous Ordinances Summary 2014 Onwards

Ordinance No	Description
AO-1	Eligibility for admission to Undergraduate Programme
AO-2	Class strength
AO-3	Types of Courses (Courses and Credits)
AO-4	Scheme of Examination (B. A. and B. Sc.)
AO-5	Ordinances relating to the two-year Postgraduate Degree Programmes
AO-6	Ordinance relating to the Degree in Bachelor of Vocation (B.Voc)
AO-7	Adoption of Open Online Courses
AO-8	Participation of a Student of Chowgule College in Study Programmes of Institutio Universities Overseas and the Transfer of Credits Earned
AO-9	Ordinances relating to the one-year Postgraduate Diploma Programmes

Since the implementation of autonomy Ordinances AO-1, to AO-9 have been amended based on the feedback and requirements by various statutory bodies. The details of amendments are given in the (Table 2.1.2)

Table 2.1.2: New ordinance / Addition of subordinances and Amended Ordinance Summary.

Ordinance No.	New ordinance / Addition of subordinances	Amended Ordinance No.	Source and Date of approval in Academic Council	Reference Page No.
AO-1	AO-1: Eligibility for admission to Undergraduate Programme		2nd AC meeting dated 6th February 2015 Applicable from AY 2015-16	1-2
		AO-1: Eligibility for admission to Undergraduate Programme	9th AC meeting dated 15th December 2018. Applicable from AY 2019	86-88
	AO-1.4: Maximum Duration of the programme		9th AC meeting dated 15th December 2018. Applicable from AY 2019	33
		AO-1.4: Maximum Duration of the programme	11th AC meeting dated 14th October 2019 Applicable from AY 2019	34
AO-2	AO-2: Class strength		2nd AC meeting dated 6th February 2015 Applicable from AY 2015-16	3
AO-3	AO-3: Types of Courses		2nd AC meeting dated 6th February 2015 Applicable from AY 2015-16	3-23
	AO-3.5: Additional Courses		6th AC meeting dated 18th May 2017, implemented from AY 2017-18	94
		AO-3: Courses and Credits AO-3.1: Course Structure of the B.A. and B.Sc. Programmes. AO-3.2: Semester-wise Course Distribution of the B.A. Programme AO-3.3: Semester-wise Course Distribution of the B.Sc. Programme	8th AC meeting dated 28th April 2018, Implemented from AY 2018-19	35-40
		AO-3: Courses and Credits	9th AC meeting dated 15th December 2018. Ref: The same was approved by the standing committee (of AC) meeting dated 26th June 2018 and Implemented from AY 2018-19	112-117
		AO-3.2: Semester-wise Course Distribution of the B.A. Programme AO-3.3: Semester-wise Course Distribution of the B.Sc. Programme	10th AC meeting dated 24th May 2019 Implemented from AY 2019-20	92-93

	AO-3: Courses and Credits: Field based component of the course		11th AC meeting dated 14th October 2019 Implemented from AY 2020-21	41
AO-4	AO-4: Scheme of Examination (B. A. and B. Sc.)		2nd AC meeting dated 6th February 2015 Implemented from AY 2015-16	23-32
		AO-4.2(e): Continuous Assessment:	4th AC meeting dated 16th April 2016 Implemented from AY 2016-17	42
		AO-4.2(b)(ii): Continuous Assessment AO-4.4(b), (c), (d): Scheme of Examination AO-4.7: Assessment of Project work AO-4.8: Procedure for preparing Results	6th AC meeting dated 18th May 2017 Implemented from AY 2017-18	43-44
	AO-4.3(h): Proposal for special examination		7th AC meeting dated 12th January 2018 Implemented from AY 2017-18	45
		AO-4: Scheme of Examination (AO-4.1 Pattern of Assessment pertaining to Courses in Component A AO-4.2: Monitoring the Assessments AO-4.3: Submission of Results AO-4.4: Pattern of Assessment pertaining to Courses in Component B	8th AC meeting dated 28th April 2018 Implemented from AY 2018-19	46-49
		AO-4: Scheme of Examination (BA and B.Sc.) AO-4.1: Pattern of Assessment AO-4.2: Monitoring the Assessments Ao-4.3: Retake examination and submission of results AO-4.4: Scheme of Evaluation of Courses (Theory) Ao-4.5: Scheme of evaluation of Courses(practical) AO-4.10: Provision for improvement AO-4.12: Guidelines for exemption	9th AC meeting dated 15th December 2018. Ref: The same was approved by the standing committee (of AC) meeting dated 26th June 2018 and Implemented from AY 2018-19	95-106

	AO-4.16: Award of entitlement credit points for National/International level participation in N.C.C. /N.S.S. /Sports /Cultural events to be used under the choice Based Credit System (CBCS) for B.A./ B.Sc./B.Voc. Programmes		10th AC meeting dated 24th May 2019 Implemented from AY 2019-20	106
AO-5	AO-5: Ordinances relating to the two-year Postgraduate Degree Programmes		6th AC meeting dated 18th May 2017 Implemented from AY 2017-18	50-58
AO-6	AO-6: Ordinance relating to the Degree in Bachelor of Vocation (B.Voc) in Software Development		6th AC meeting dated 18th May 2017 Implemented from AY 2017-18	59-66
		AO-6: Ordinance relating to the Degree in Bachelor of Vocation (B.Voc)	10th AC meeting dated 24th May 2019 Implemented from AY 2019-20	67-76
AO-7	AO-7: Adoption of Open Online Courses (AO-7.1,7.2,7.3,7.4,7.5)		7th AC meeting dated 12th January 2018 Implemented from AY 2018-19	107
AO-8	AO-8: Participation of a Student of Chowgule College in Study Programmes of Institutions and Universities Overseas and the Transfer of Credits Earned		8th AC meeting dated 28th April 2018 Implemented from AY 2018-19	107
		AO-8: Participation of a Student of Chowgule College in Study Programmes of Institutions and Universities Overseas/ within India and the Transfer of Credits Earned	11th AC meeting dated 14th October 2019 Implemented from AY 2020-21	77
AO-9	AO-9: Ordinances relating to the one-year Postgraduate Diploma Programmes		9th AC meeting dated 15th December 2018 Implemented from AY 2019-20	78-85
POLICY				
1. Credits for Extracurricular subjects/Activities			3nd AC meeting dated 21st November 2015 Applicable from AY 2015-16	108-111

2.2 Minutes of Statutory Bodies

The statutory bodies of Parvatibai Chowgule College of Arts & Science (Autonomous), were constituted as per the Guidelines of UGC and Statues of Goa University SC 15.25, governing the constitution and functioning of the same in autonomous colleges. These committees ensure proper management of academic, financial and administrative affairs. Minutes of all the meetings of the statutory bodies are available online on college website www.chowgules.ac.in.

Statutory Bodies of the College are the following:
1) Board of Studies.
2) Academic Council.
3) Governing Body.
4) Finance Committee.

I)Report of the Minutes of Statutory Bodies is given Below:

The Board of studies plans academic matters viz. designing curriculum, suggesting Teaching-Learning-Evaluation modes, suggesting panel of examiners and coordinate other academic related matters. Such matters are then placed in Academic Council for scrutiny and approval of the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications as per the general procedure.

1) Board of Studies:

Considering the objectives of autonomous colleges laid down in Goa University Statutes, SC-15.1.2, the Board of studies carried out its functions to conform to the vision of the institution. The minutes of all meetings are available on college website. Following Table indicates the details of the BOS meetings.

Minutes of Board of Studies Available at; http://www.chowgules.ac.in/chowgule/jsp/autonomy/bos.jsp			
Sr.No.	**Department**	**Date and year of BOS meet**	**Year wise Agenda**
1.	Biochemi stry	23/03/2016 & 16/12/2016 30/11/2017 14/03/2019	**2014-2015:** • To approve the list of core and elective courses for undergraduate programme • To approve the syllabi of Semester I and Semester II and PG programmes. • Recommend panel of examiners • Question paper pattern of the college. • Any Other Business (A.O.B.) **2015-2016:** • To approve the syllabi of Semester III and Semester IV and PG programmes. • Approve structure of Question paper. • Any Other Business (A.O.B.)
2.	Biotechnology	20/12/2014 25/09/2015 & 26/09/2015 22/10/2016 05/12/2017 14/03/2019	
3.	Botany	27/12/2014 03/10/2015 10/02/2016 20/10/2016 & 21/10/2016 12/09/2017 06/03/2019	
4.	Chemistry	10/01/2015 17/10/2015 02/04/2016 & 22/10/2016 07/04/2018 25/01/2019	
5.	Computer Science	20/12/2014 17/10/2015	

Sr.No.	Department	Date and year of BOS meet	Year wise Agenda
		05/03/2016 01/04/2017 & 09/12/2017 13/10/2018	**2016-2017:** • To approve the syllabi of Semester V and Semester VI and PG programmes. • Any Other Business (A.O.B.)
6.	Economics	17/12/2014 17/10/2015 20/02/2016 30/09/2016 & 01/10/2016 28/04/2017 & 29/04/2017 07/10/2017 03/04/2018 & 06/10/2018 14/09/2019	**2017-2018:** • To revise the syllabi of Semester I, II, III, IV, V and VI as per recommendations of academic audit. • Align course with the Department mission and vision. • Any Other Business (A.O.B.)
7.	English	15/01/2015 30/09/2015 05/02/2016 & 22/10/2016 30/10/2017 24/02/2018 & 01/10/2018 09/03/2019	**2018-2019:** • Reorganizing all courses of the department as 03 module system • Revise courses to incorporate feedback from stake holders • Identify SWAYAM courses
8.	French	07/01/2015 & 03/11/2015 05/04/2017 & 28/09/2017 04/04/2018 06/09/2018	• Define COs for courses and PSOs for programmes. **2014-2015:** • To approve the list of core and elective courses for undergraduate programme
9.	Geography	10/01/2015 & 24/10/2015 19/02/2016 24/09/2016 25/04/2017 11/10/2017 07/04/2018 12/10/2018 21/02/2019	• To approve the syllabi of Semester I and Semester II and PG programmes. • Recommend panel of examiners • Question paper pattern of the college.
10.	Geology	20/12/2014 30/09/2015 & 01/10/2015 03/04/2017 & 04/04/2017 23/03/2018 & 24/03/2018 23/03/2019 & 24/03/2019	• Any Other Business (A.O.B.) **2015-2016:** • To approve the syllabi of Semester III and Semester IV and PG programmes.
11.	Hindi	18/12/2014 23/10/2015 25/01/2016 & 03/10/2016 07/10/2017	• Approve structure of Question paper. • Any Other Business (A.O.B.)
12.	History	20/12/2014 24/10/2015 09/01/2016 22/10/2016 21/04/2017 & 14/10/2017 06/10/2018	**2016-2017:** • To approve the syllabi of Semester V and Semester VI and PG programmes.
13.	Konkani	06/01/2015 24/10/2015 27/01/2016 & 25/10/2016 04/11/2017 13/10/2018	• Any Other Business (A.O.B.)

Sr.No.	Department	Date and year of BOS meet	Year wise Agenda
			2017-2018: • To revise the syllabi of Semester I, II, III, IV, V and VI as per recommendations of academic audit. • Align course with the Department mission and vision. • Any Other Business (A.O.B.) **2018-2019:** • Reorganizing all courses of the department as 03 module system • Revise courses to incorporate feedback from stake holders • Identify SWAYAM courses • Define COs for courses and PSOs for programme.
14.	Marathi	05/01/2015 & 23/10/2015 20/01/2016 & 21/10/2016 14/10/2017 17/10/2018	**2014-2015:** • To approve the list of core and elective courses for undergraduate programme • To approve the syllabi of Semester I and Semester II and PG programmes. • Recommend panel of examiners • Question paper pattern of the college. • Any Other Business (A.O.B.) **2015-2016:** • To approve the syllabi of Semester III and Semester IV and PG programmes. • Approve structure of Question paper. • Any Other Business (A.O.B.) **2016-2017:** • To approve the syllabi of Semester V and Semester VI and PG programmes. • Any Other Business (A.O.B.) **2017-2018:** • To revise the syllabi of Semester I, II, III, IV, V and VI as per recommendations of academic audit.
15.	Maths	09/10/2015 & 10/10/2015 15/04/2017 & 30/06/2017 13/04/2018 & 14/04/2018	
16.	Philosophy	19/10/2015 01/02/2016 & 05/11/2016 27/10/2017 15/10/2018	
17.	Physics	06/12/2014 10/10/2015 08/10/2016 07/04/2018 23/02/2019	
18.	Portuguese	28/01/2016 09/03/2018	
19.	Psychology	16/12/2014 27/10/2015 10/02/2016 26/03/2016 & 06/10/2016 07/04/2017 & 13/10/2017 28/09/2018 15/03/2019	
20.	Sociology	18/12/2014 23/10/2015 29/01/2016 & 18/10/2016 13/04/2017 & 10/10/2017 13/04/2018 05/04/2019	
21.	Zoology	07/01/2015 14/10/2015 & 15/10/2015	

Minutes of Board of Studies			
Available at; http://www.chowgules.ac.in/chowgule/jsp/autonomy/bos.jsp			
Sr.No.	**Department**	**Date and year of BOS meet**	**Year wise Agenda**
		10/10/2016 19/04/2017 13/04/2018 15/03/2019 & 16/03/2019	• Align course with the Department mission and vision. • Any Other Business (A.O.B.)
22.	B.Voc Multimedia and Digital Film making	17/03/2018 24/04/2018 20/04/2019	**2018-2019:** • Reorganising all courses of the department as 03 module system
23.	B.Voc Software development	09/05/2017 16/12/2017 16/02/2019	• Revise courses to incorporate feedback from stake holders • Identify SWAYAM courses • Define COs for courses and PSOs for Programme.

2) Academic Council:

The academic council scrutinizes and approves the proposals with or without modification of the Boards of Studies with regard to courses of study, academic regulations, curricula, syllabi and modifications thereof, instructional and evaluation arrangements, regulations for sports, extra-curricular activities, recommend to the Governing Body proposals for institution of new programmes of study and advise the Governing Body on suggestions(s) pertaining to academic affairs made by it. All minutes of the meetings are uploaded on the college website and is available at http://www.chowgules.ac.in/chowgule/jsp/autonomy/acadcoun.jsp. The summary of meetings of Academic council of the college is given below.

Minutes of Academic Council Meetings			
Available At: http://www.chowgules.ac.in/chowgule/jsp/autonomy/acadcoun.jsp			
Sr.No.	**Date and year of meeting**	**Agenda**	**Link**
1st	31/10/2014	• Discuss Constitution of AC by GB as per regulations. • Approve Course structure of UG degree programme • Approve external experts to BOS for all departments	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/1st%20Minutes%20of%20Academic%20Council%20Meeting_31.10.2014.pdf
2nd	06/02/2015	• Change the terminologies used in Autonomy ordinances of Chowgule college to conform to guidelines of UGC. • Approve syllabus of UG and PG programmes approved by BOS. • Approve panel of examiners.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/2nd%20Minutes%20of%20Academic%20Council%20Meeting_06.02.2015.pdf
3rd	21/11/2015	• Approve the proposed Grading system and proposal for academic audit • Draft policies – Non-Evaluative credits	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/3rd%20

Sr.No.	Date and year of meeting	Agenda	Link
		• Report on College initiatives under autonomy. • Approve syllabus of UG and PG programmes approved by BOS.	Minutes%20of%20Academic%20Council%20Meeting_21.11.2015.pdf
4th	16/04/2016	• Approve syllabus of UG and PG programmes approved by BOS.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/4th%20Minutes%20of%20Academic%20Council%20Meeting_16.04.2016.pdf
5th	09/03/2017	• Approve syllabus of UG and PG programmes approved by BOS. • Approve amendments pertaining to credits and evaluation. • Nominate external experts on BOS.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/5th%20Minutes%20of%20Academic%20Council%20Meeting_09.03.2017.pdf
6th	18/05/2017	• Approve syllabus of UG and PG programmes approved by BOS. • Approve PG ordinances • Approve amendments pertaining to credits and evaluation.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/6th%20Minutes%20of%20Academic%20Council%20Meeting_18.05.2017.pdf
7th	12/01/2018	• Approve minutes of standing committee • Approve syllabus of UG and PG programmes approved by BOS. • Approve proposal for Special examination under autonomy. • Approve modus operandi of Online courses.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/7th%20Minutes%20of%20Academic%20Council%20Meeting_12.01.2018.pdf
8th	28/04/2018	• Approve syllabus of UG and PG programmes approved by BOS. • Approve changes in Course Structure. • Approve transfer of Credits (twinning courses at other universities)	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/7th%20Minutes%20of%20Academic%20Council%20Meeting_12.01.2018.pdf
9th	15/12/2018	• Approve Syllabus of UG and PG programmes approved by BOS. • Amendments to scheme of Examination. • Approve PG ordinances • Review performance of college since grant of autonomy.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/Minutes%20of%20Academic%20Council%20Meeting%2015.12.2018.pdf
10th	24/05/2019	• Approve Syllabus of UG and PG programmes with POs, Cos and PSOs.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/

Minutes of Academic Council Meetings			
Available At: http://www.chowgules.ac.in/chowgule/jsp/autonomy/acadcoun.jsp			
Sr.No.	**Date and year of meeting**	**Agenda**	**Link**
		• Approve new Programmes • Amendments to B.Voc ordinances and Research writing • Nominate External experts of BOS	Academic%20Council/Minutes%20of%20the%20Academic%20Council%20Meeting%2024.05.2019.pdf
11th	14/10/2019	• Approve Syllabus of UG and PG programmes with Cos and PSOs. • Approve amendments to ordinance AO-1.4/AO-3/AO-8. • Approve Policies pertaining to research and consultancy. • Report of Academic audit • AQAR 2018-19.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Academic%20Council/Minutes%20of%2011th%20Academic%20Council%20Meeting.pdf

3) Governing Body:

Governing Body looks into approval of new programmes of study leading to degrees and/or diplomas as recommended by academic council. Also perform such other functions and institute committees, as may be necessary and deemed fit for the proper development, and fulfill the objectives for which the college has been declared as autonomous. All minutes of the meetings are uploaded on the college website and are available at http://www.chowgules.ac.in/chowgule/jsp/autonomy/govbody.jsp. The summary of meetings of Governing body of the college is given below:

Minutes of Governing Body			
Available At: http://www.chowgules.ac.in/chowgule/jsp/autonomy/govbody.jsp			
Sr. No.	**Date and year of meeting**	**Agenda**	**Link**
1st	13/10/2014	• Presentation of proposed course structure of UG Programme • Nomination of experts to Academic council • AOB	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/1st%20Minutes%20of%20Governing%20Body%20Meeting_13.10.2014.pdf
2nd	18/04/2015	• Structure of UG programmes approved by AC. • Syllabus of Semester 1 and 2 of UG programmes • Syllabus of PG programmes. • Fee structure	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/2nd%20Minutes%20Governing%20Body%20Meeting_18.04.2015.pdf
3rd	11/03/2016	• Syllabus of Semester 3 and 4 of UG programmes. • Policies pertaining to non-evaluative credits • Approve budget prepared by Finance committee • Approve Exam committee report.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/3rd%20Minutes%20of%20Governing%20Body%20Meeting_11.03.2016.pdf

Sr. No.	Date and year of meeting	Agenda	Link
		Minutes of Governing Body **Available At**: http://www.chowgules.ac.in/chowgule/jsp/autonomy/govbody.jsp	
4th	28/05/2016	• Syllabus of UG syllabus approved by AC. • External Audit committee Report of 2015-16. • CPE colleges • Exchange Programme	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/4th%20Minutes%20of%20Governing%20Body%20Meeting_28.05.2016.pdf
5th	13/06/2016	• Report of academic audit • Review of academic year 2015-16 • Plan for 2016-17	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/5th%20Minutes%20of%20Governing%20Body%20Meeting_13.06.2016.pdf
6th	26/10/2016	• Approve members of AC. • Motivating teachers for research • Plan for preparing roadmap for 05 yrs.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/6th%20Minutes%20of%20Governing%20Body%20Meeting_26.10.2016.pdf
7th	6/06/2017	• Syllabus of UG and PG programmes approved by AC. • Approve PG ordinances • Approve amendments pertaining to credits and evaluation • College plan 2020(road map) • Research promotion policies and research portal on website. • MoUs and Linkages	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/Minutes%20of%207th%20Governing%20Body%20Meeting-06-06-2017.pdf
8th	19/02/2018	• Syllabus of UG and PG programmes approved by AC. • Examination reforms • Online courses • Preparation for NAAC and NIRF	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/8th%20Minutes%20of%20Governing%20Body%20Meeting_19.02.2018.pdf
9th	04/06/2018	• Syllabus of UG and PG programmes approved by AC. • Amendment to ordinances • Policy on transfer of credits • College report 2017-18 • Academic plan 2018-2019	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/9th%20Minutes%20of%20Governing%20Body%20Meeting_04.06.2018.pdf
10th	12/02/2019	• Syllabus of UG and PG programmes approved by AC. • Pos, COs and PSOs. • Amendment to examination scheme • AC nominees • Restructured budget of 2018-19 • AQAR 2017-18	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/Minutes%20of%20Governing%20Body%20Meeting%2012.02.2019.pdf

	Minutes of Governing Body		
	Available At: http://www.chowgules.ac.in/chowgule/jsp/autonomy/govbody.jsp		
Sr. No.	Date and year of meeting	Agenda	Link
11th	04/06/2019	• Syllabus of UG and PG programmes approved by AC with Pos, Cos and PSOs. • Swayam courses • Course resource requirements • New programmes approved by AC • NIRF report, NAAC preparation update • College annual report 2018-2019	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Governing%20body/Minutes%20of%20Governing%20Body%20meeting%204-6-2019.pdf

4) Finance Committee:

Finance committee prepares budget estimates relating to the grant received/receivable from UGC, and income from fees, etc. collected for the activities to undertake the scheme of autonomy; and Audited accounts for the above. All minutes of the meetings are uploaded on the college website and are available at http://www.chowgules.ac.in/chowgule/jsp/autonomy/acadcoun.jsp. The summary of meetings of Finance committee of the college is given below:

	Minutes of Finance Committee Meetings		
	Available At: http://www.chowgules.ac.in/chowgule/jsp/autonomy/acadcoun.jsp		
Sr. No.	Date and year of meeting	Agenda	Link
1st	27/05/2015	• Budget statement of college for claiming assistance from UGC as per pattern of assistance.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Finance/1st%20%20Minutes%20of%20Finance%20committee%20meeting.pdf
2nd	11/01/2016	• Income and expenditure of autonomous college for the financial year 2015-2016 • Prepare Budget for financial year 2016-17 under autonomy grants	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Finance/2nd%20Minutes%20of%20Finance%20committee%20meeting.pdf
3rd	09/01/2017	• Present statement relating to grant receivable from UGC of 2016-17 • Audited SE and UC submitted to UGC of 2016-17. • Budget for 2017-2018 • Approve exam related fee structure.	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Finance/3rd%20%20Minutes%20of%20Finance%20committee%20meeting.pdf
4th	18/12/2017	• Grants not received from UGC (SE and UC of 2016-17 submitted to UGC) • Statement of expenditure of 2017-2018 • Budget for 2018-2019	http://www.chowgules.ac.in/chowgule/Documents/autonomy/Finance/4th%20Minutes%20of%20Finance%20committee%20meeting.pdf

		Minutes of Finance Committee Meetings	
		Available At: http://www.chowgules.ac.in/chowgule/jsp/autonomy/acadcoun.jsp	
Sr. No.	**Date and year of meeting**	**Agenda**	**Link**
5th	28/01/2019	• Present statement relating to grant receivable from UGC of 2017-18. • Expenditure incurred in 2018-19 • Restructure budget of 2018-19.	http://www.chowgules.ac.in/ chowgule/Documents/autono my/Finance/5th%20minutes %20Finance%20committee% 20on%2028th%20January%2 02.pdf
6th	02/05/2019	• Present statement relating to grant receivable from UGC of 2018-2019. • Approve budget for autonomy grant for 2019-2020.	http://www.chowgules.ac.in/ chowgule/Documents/autono my/Finance/6th%20Minutes %20of%20Finance%20com mittee%20meeting.pdf

2.3 Workload of Teachers

On Conferment of autonomy, the Directorate of Higher Education (DHE), freezed the departmental workload for aided courses that existed in the academic year 2014-15. In last five years, there has been significant increase in the student's enrolment that has subsequently increased the total workload of teachers under aided courses. (Figure 2.3.1)
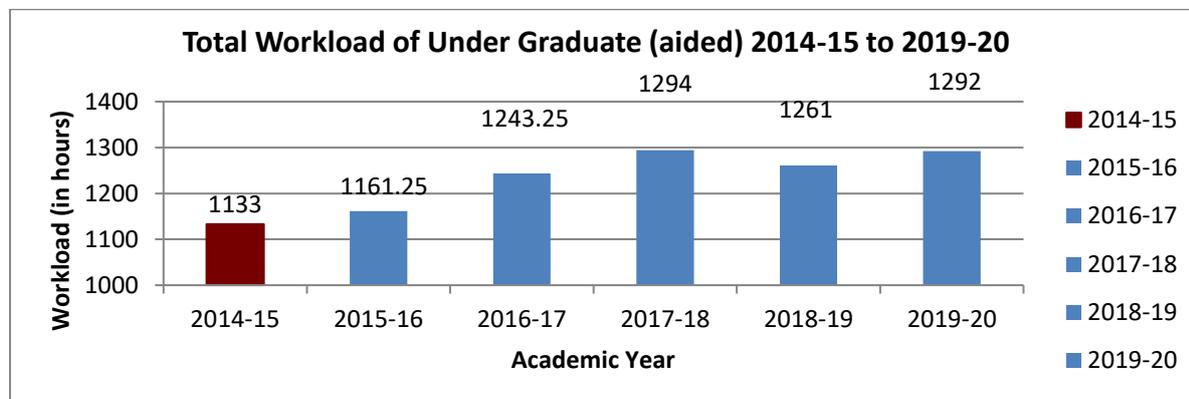
Figure 2.3.1: Total Workload of Under Graduate (Aided) 2014-15 to 2019-20

The increase in the departmental workload year wise can be factored as a result of:

i. An increase in the student strength across departments
ii. Provision of increased number of courses in all the courses under autonomy (as per the new course structure).
iii. Addition of Foundation courses (FC), Statistics, Skill Enhancement, Generic Elective, Interdisciplinary courses, optional language.

Table 2.3.1. Workload 2014-15 to 2019-20 (Aided programmes)

Department	Eligible Staff	Freezed WL 2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Physics	*4 FT* + 1 LB***	**78.00**	64.50	68.50	70.00	75.00	**75.00**
			-13.50	-9.50	-8.00	-3.00	-3.00
Chemistry	*9 FT + 1 LB*	**146.00**	144.00	140.50	161.00	139.00	**143.00**
			-2.00	-5.50	15.00	-7.00	-3.00
Botany	*4 FT + 1 LB*	**66.00**	63.50	69.25	72.00	70.00	**69.00**
			-2.50	3.25	6.00	4.00	3.00
Zoology	*5 FT + 1 LB*	**78.00**	73.50	86.00	110.00	104.00	**112.00**
			-4.50	8.00	32.00	26.00	34.00
Geology	*4 FT + 1 LB*	**71.00**	66.75	73.50	79.00	76.00	**70.00**
			-4.25	2.50	8.00	5.00	-1.00
Mathematics	*3 FT + 1 LB*	**56.00**	64.50	60.50	77.00	87.00	**87.00**
			8.50	4.50	21.00	31.00	31.00

Computer Science	*9 FT + 1 LB*	**146.00**	149.75	159.00	173.00	156.00	**148.00**
			3.75	13.00	27.00	10.00	2.00
Geography	*4 FT + 1 LB*	**68.00**	72.75	79.50	76.00	74.00	**84.00**
			4.75	11.50	8.00	6.00	16.00
History	*2 FT + 1 LB*	**42.00**	38.25	46.50	42.00	42.00	**43.00**
			-3.75	4.50	0.00	0.00	1.00
Economics	*4 FT + 1 LB*	**70.00**	70.50	70.50	62.00	82.00	**76.00**
			0.50	0.50	-8.00	12.00	6.00
Philosophy	*2 FT + 1 LB*	**42.00**	46.50	16.00	29.00	33.00	**41.00**
			4.50	-26.00	-13.00	-9.00	-1.00
Psychology	*3 FT + 1 LB*	**51.00**	55.50	62.25	55.00	59.00	**62.00**
			4.50	11.25	4.00	8.00	11.00
Sociology	*1 FT + 1 LB*	**26.00**	30.00	49.50	42.00	36.00	**38.00**
			4.00	23.50	16.00	10.00	12.00
English	*3 FT + 1 LB*	**57.00**	72.00	75.00	74.00	74.00	**71.00**
			15.00	18.00	17.00	17.00	14.00
Hindi	*2 FT + 1 LB*	**38.00**	42.00	51.75	53.00	48.00	**49.00**
			4.00	13.75	15.00	10.00	11.00
Marathi	*2 FT + 1 LB*	**37.00**	39.00	51.75	41.00	34.00	**45.00**
			2.00	14.75	4.00	-3.00	8.00
Konkani	*2 FT + 1 LB*	**37.00**	40.50	51.75	52.00	48.00	**50.00**
			3.50	14.75	15.00	11.00	13.00
French	*1 FT + 1 LB*	**24.00**	27.75	31.50	26.00	24.00	**29.00**
			3.75	7.50	2.00	0.00	5.00
	Total	**1133.00**	**1161.25**	**1243.25**	**1294.00**	**1261.00**	**1292.00**
			28.25	110.25	161.00	128.00	159.00

At the departmental level, there has been significant increase in the workload in the department of Zoology, Mathematics, geography and psychology. All the language department have witnessed increase in the workload. In many of these departments there has been increase in the student's enrolment while for the languages, it is more attributed to the numbers of courses offered by the department under CBCS.

(Self-Financed Programmes)

Department (UG)	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Biotechnology	36 (2 C+1 LB)	62 (3 C+1 LB)	69 (4 C+1 LB)	80 (4 C+1 LB)	84 (5 C+1 LB)	80(5 C)
Biochemistry	—	—	10 (1 C)	30(1 C+1 LB)	52 (3 C+1 LB)	64 (4 C)
B.Voc.(3D Media & VR)	—	—	—	—	30(6 LB)	60(10 LB)
B.Voc.((Multimedia - Digital Filmmaking)	—	—	—	—	30(6 LB)	60(10 LB)
B.Voc. (Software Development)	—	—	—	54 (3 LB)	110 (3 C+3 LB)	98 (3 C+6 LB)
Geography (TYBSc)	20(3 LB)	20(2 LB)	18(2 LB)	20(2 LB)	20(1 LB)	20(3 LB)
Sociology (TYBA)	12(1 LB)	12(1 LB)	12(2 LB)	12(2 LB)	12(1 LB)	12(1 LB)
Portuguese	16 (1 C)	18 (1 C)	18 (1 C)	18 (1 C)	22(1C+1 LB)	22(1 C+1 LB)

Department (PG)	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Analytical Chemistry	68(3 C)	78(4 C+2 LB)	64(4 C)	52(3 C)	52(1 C+5 LB)	52(3 C+2 LB)
Information Technology	66 (3 C)	66 (3 C)	70 (3 C)	68 (3 C)	67 (3 C+1 LB)	67 (3 C)
Psychology MA Child Psychology	—	—	27 (2 LB)	31(1 C+2 LB)	30 (1 C+2 LB)	35 (1 C+3 LB)
Geography (MA)	36 (2 C+3 LB)	36(2 C+1 LB)	35(2 C+1 LB)	36 (2C+1 LB)	40 (1C+2 LB)	48(1C +5 LB)
M.Sc. Geoinformatics	—	—	—	—	—	20(1 C)
Applied Economics	—	24(1 C)	26(1 C)	26(1 C)	22(2 LB)	22(2 LB)
English	—	—	—	—	22(2 LB)	34(3 LB)
Hindi	—	20(1 LB)	20(1 C)	20(1 C)	20(1 C)	20(1C +2 LB)

Department (PGD)	2014-15	2015-2016	2016-2017	2017-2018	2018-2019	2019-20
Clinical Genetics	22(4 LB)	22(4 LB)	22(4 LB)	22(4 LB)	—	22(4 LB)
Geoinformatics	24 (1C+1LB)	24 (1C+1LB)	24 (1C+1LB)	24 (1C+1LB)	24 (1C+1LB)	30 (1C+1LB)

* Full time, **Lecture basis, ***Contractual

2.4 Time Table/Conduct of Examination/ Notification and declaration of results

The following section gives details of constitution of examination cell, Reforms in Evaluation, with effect from 2017 onwards.

2.4.1 Constitution of Examination Cell:

As per the Goa University statutes (**SC-15.27**) related to Autonomy with regards to examinations, an examination cell headed by the Controller of Examination (a permanent faculty) was set up. The Controller of Examination with the approval of the Principal of the college subsequently created a team consisting of a Deputy Controller of Examination and Assistant Controllers of Examination.

Each one of the teaching faculty involved has been nominated for tenure of 3 years and continue doing their teaching duties as scheduled by the college.

Besides, others permanent staffs have been appointed as Programmers and as part-time office staff in the examination cell to assist in the examination process. All the functionaries of the examination cell are being paid honorarium for the extra work being done apart from the usual work.

Two fulltime office staff has also been appointed to the examination cell on contract basis. The Examination cell is located in the administrative block and has its independent printing unit for printing of question papers and other relevant confidential material.

As mandated in the statute **SC-15.27**, continuous and comprehensive evaluations of students are being done through the conduct of Continuous Assessment (CA), Midterm Assessment (MTA), Semester End Examination (SEE) and Portfolio based evaluations.

2.4.2 Reforms in Evaluation:

A continuous, comprehensive evaluation of students through the conduct of Continuous Assessments (at least TWO per semester) and ONE Semester End Evaluation per course have been in place from the academic year 2015-16. With the powers entrusted to the examination committee vide statute **SC-15.28**, the following examination reforms (approved by the Academic Council / Governing Body) for undergraduate programmes have been implemented through the ordinance **AO-4** with effect from the academic year 2018-19:

1. **Patterns of Assessment**
To support the varied nature of courses, the following patterns of Assessment have been approved:
a) Continuous Assessment only;
b) Continuous Assessment and Semester End Examination; and
c) Continuous Assessment, Mid-Term Assessment and Semester End Examination.
   The responsibility for monitoring the assessment of courses offered by the Department will lie with the Head of the Department, the concerned Dean in coordination with the Controller of Examinations.

2. **Decentralization of Examinations**
In order to better handle the varied patterns of Assessment of courses, it is decided to delegate some of the powers to the departments. As such, a course teacher is now empowered to decide not only the pattern of assessment he/she finds suitable for a course but also the weight age for each component besides the scheduling of the assessment(s) or examination(s).

As part of the decentralized mode, a course teacher is required to discuss/share all the evaluated assessment(s) or examination(s) answer books with the concerned students.

A retake examination within 15 days of the declaration of the regular semester results is also offered to the students for the following reasons:

a) Students deputed for national/international events.

b) Medical reasons such as hospitalization, etc with prior permission supported.

c) Unforeseen emergencies such as accidents, medical, curfew, bad weather etc.

d) Students who have fulfilled the class and attendance policies but have not acquired a pass grade.

The entire decentralized process is closely monitored by the examination committee in association with the respective Head of Department or In Charge.

3. Repeat Examination

After the declaration of the regular semester V and VI examination results, students are given one-week notification period for the purpose of verification of marks.

On receipt of the application for verification the following factors shall be verified:

a) The answer books contain the number of supplements recorded.

b) All the answers of the questions have been assessed by the examiner, and

c) The total of the marks has been correctly recorded.

After the completion of the verification process, a repeat examination for the respective semester is conducted with a notice period of 15 days.

2.4.3 Notification & Declaration of Results
Table 2.4.3: Notification and Declaration of Results

Sr. No.	Examination	Month & Year	Date of Notification of Examination	Date of Declaration of Results
1.	B.A/B.Sc/B.Voc	October 2017	14 Sept 2017	**2 Jan 2018-**B.A., B.Sc.& B.Voc. Sem I/III/V **4 Jan 2018-**B.A./ B.Sc. Sem I/III (Repeat) **10 Jan 2018-**B.Sc. Sem II (Repeat)
		April 2018	05 Mar 2018 & 18 June (Special Repeat Sem I/II/III/IV/V/VI)	**19 May 2018-** BA/BSc Sem VI **24 May 2018-**BA/BSc Sem II/IV (Repeat/Regular) **7 Jun 2018-**B.Voc. Sem II **30 Jul 2018-**BA/BSc Semester I/II/III/IV/V/VI June 2018 Repeat Exam
		October 2018	02 July 2018 & 23 Oct 2018 (Sem2 Repeat/retake) 2 Jan 2019 Sem V (Special Repeat)	**30 Nov 2018-** S.Y.B.A. Sem III T.Y.B.Sc./ B.A Sem V **12 Dec 2018-**F.Y.B.Sc. & F.Y.B.A. Semester I (Repeat), S.Y.B.Sc.Semester III **13 Feb 2019-**B.A./ B.Sc. Sem I Regular & Repeat/Retake 2018 **28 Feb 2019-** T.Y.B.A./B.Sc. Sem V (Special Repeat Exam Jan 2019)

		April 2019	16 Mar 2019 & 26 April 2019(Sem2 Repeat/retake)	**26 Apr 2019-**B.A./B.Sc. Semester II (Regular) **14 May 2019-**B.A. Semester IV/VI **15 May 2019-** B.Voc. Semester IV F.Y.B.Voc. (2018-19) **20 May 2019-**B.A. Semester II(Repeat) B.Sc. Semester II(Repeat) B.Sc. Semester IV/VI **24 Jun 2019-**B.A./B.Sc. Sem II (Repeat/Retake May2019)
		June 2019	22 May 2019	**4 Jul 2019-**B.A./B.Sc. Sem VI (Special Repeat)
2.	Post Graduate Programmes	October 2018	25 Sept 2018	**M.A. English-**Sem I - 31 Jan 19 **PGD-Geoinformatics-**Sem I- 02 Nov 18 **M.A Geography-**(Sem I & III) - 18 Jan 19 **PGDCA-**Sem I- 11 Dec 18 **M.A. Applied Economics-**(Sem I & III) - 09 Nov 2018 **M.S.C.I.T** (Sem I & III) - 10 Dec 2018 **M.A Hindi-**Sem I -12 Nov 2018 Sem III – 19 Nov 2018 **M.Sc. Chemistry** (Sem I & III) - 22 Dec 2018 **M.A Child Psychology** (Sem I & III)- 8 Nov 2018
		April 2019	13 March 2019	**M.A. English-**Sem II - 21 June 2019 **PGD-Geoinformatics-**Sem II - 23 May 2019 **M.A Geography-**Sem II - 21 May 2019 Sem IV - 23 May 2019 **PGDCA-**Sem II - 22 May 2019 **M.A. Applied Economics-**Sem II - 21 June 2019, Sem IV - 23 May 2019 **M.S.C.I.T-**Sem II - 29 May 2019, Sem IV - 26 April 2019 **M.A Hindi-**Sem II - 02 May 2019, Sem IV – 23 May 2019 **M.Sc Chemistry-**Sem II - 21 June 2019, Sem IV - 07 May 2018 **M.A Child Psychology-**Sem II- 21 June 19

2.5 Fee Structure

Class	Details (2018 – 2019) Aided Programmes
FYBSc	Annual fees ranges from Rs.20230 to Rs.23890 covering heads as University Reg Fee, Tuition Fee, Examination Fee, General Deposit (LD-70, C.M.D-70, Lab-90), Student's Aid Fund, Gymkhana Fee, Laboratory Pract. Fee, Library Fee, Other Fee, I.T. Fee, Student Services Charge.
FYBA	Annual fees ranges from Rs.19260 to Rs.20940 covering heads as University Reg Fee, Tuition Fee, Examination Fee, General Deposit (Lib dep-70 & C.M.Dep-70), Student's Aid Fund, Gymkhana Fee, Library Fee, Other Fee, I.T. Fee, Lab. Pract. Fee, Student Services Charges.
SYBSc	Annual fees ranges from Rs.17220 to Rs.20820 covering heads as Tuition Fee, Examination Fee, Student's Aid Fund, Gymkhana Fee, Laboratory Pract. Fee, Library Fee, Other Fee, Student Services
SYBA	Annual fees ranges from Rs.16270 to Rs.17930 covering heads as Tuition Fee, Examination Fee, Student's Aid Fund, Gymkhana Fee, Library Fee, Other Fee, Lab. Pract. Fee, Student Services Charges.
TYBA	Annual fees ranges from Rs.14850 to Rs.16150 covering heads as Tuition Fee, Examination Fee, Student's Aid Fund, Gymkhana Fee, Library Fee, Other Fee, Lab. Pract. Fee, Student Services Charge.
TYBSc	Annual fees ranges from Rs.16350 to Rs.19700 covering heads as Tuition Fee, Examination Fee, Student's Aid Fund, Gymkhana Fee, Laboratory Pract. Fee, Library Fee, Other Fee, Student Services Charges.
SY Sociology	Annual fees ranges from Rs.18170 to Rs.23870 covering heads as Tuition Fee, Examination Fee, Student's Aid Fund, Additional Credits, Gymkhana Fee, Library Fee, Other Fee, Lab. Pract. Fee, Student Services Charges.
FY Sociology	Annual fees ranges from Rs.22860 to Rs.26860 covering heads as University Reg Fee, Tuition Fee, Examination Fee, General Deposi (Lib dep-55 & C.M.Dep-60), Student's Aid Fund, Additional Credits, Gymkhana Fee, Library Fee, Other Fee, I.T.Fee, Lab. Pract. Fee, Student Services Charges.
SYBSc Geography	Annual fees ranges from Rs.17220 to Rs.18270 covering heads as Tuition Fee, Examination Fee, Student's Aid Fund, Additional Credits, Gymkhana Fee, Library Fee, Other Fee, Student Services Charges.
FYBSc Geography	Annual fees ranges from Rs.20530 to Rs.21280 covering heads as University Reg Fee, Tuition Fee, Examination Fee, General Deposit (Lib dep-55 & C.M.Dep-60), Student's Aid Fund, Gymkhana Fee, Library Fee, Other Fee, I.T.Fee, Lab. Pract. Fee, Student Services Charges.
PGDCA	Annual fees is Rs.20550 covering heads as Univer. Reg., Tuition fee, Examination fee, Students' Aid Fund, Gymk fee, Library fee, Other fee, Comp Lab fee, Students service charges.

Self-Funded Fee Structure 2018-19

Class	Details (2018 – 2019) Self-Financed Programmes
MA Psychology	Annual fees ranges from Rs.50920 to Rs.64500 covering heads as University. Reg., Tuition, Students' Aid Fund, Gymk fee, Library fee, Student activity fee, Laboratory fees, Student service charges.

Geo informatics	Annual fees is Rs.53130 covering heads as Univer. Reg., Tuition Fee, Students' Aid Fund, Gymk fee, Library fee, Student Activity Fee,LaboratoryFee,Student Service Charges.
MA Geography	Annual fees ranges from Rs.48420 to Rs.49250 covering heads as University. Reg. fee, Tuition , Students' Aid Fund, Gymk fee, Library fee, Student activity fee, Laboratory fees, Project Fee, Student service charges.
MSc IT	Annual fees ranges from Rs.99500 to Rs.105500 covering heads as Univer. Reg.fee, Tuition, Students' Aid Fund, Gymk fee, Library fee, Student activity fee, Laboratory fees, Student service charges.
TYBSC Geography	Annual fees ranges from Rs.22485 to Rs.42582 covering heads as Tuition Fee, Lab. Fee, Lib. Fee, Gym. Fee, Student Activity Fee, Student's Aid Fund,Examination Fee, Student Service Charges.
MSc Chemistry	Annual fees ranges from Rs.93482 to Rs.96000 covering heads as Tuition Fee, Lib. Fee, Gym. Fee, Lab./ Computer Lab. Fees, Adm. Form Fee, Student Activity fees, Student's Aid Fund, Student Service Charges, Univ. Reg. fees.
TYBA Sociology	Annual fees ranges from Rs.18910 to Rs.23210 covering heads as Tuition Fee, Examination fee, Student's Aid Fund,Additional Credits, Development Fee, Gym. Fee, Lib. Fee, Other Fee, Student Service Charges.
Biochemistry	Annual fees ranges from Rs.58832 to Rs.62300 covering heads as Tuition Fee, Lab. Fee, Lib. Fee, Gym. Fee, Other Fee, Student's Aid Fund, Student Service Charges, Development Fee, Exam Fees, University Reg.Fee, Admnst Fee.
MA Hindi	Annual fees ranges from Rs.42982 to Rs.44500 covering heads as Tuition, Student service charges, Library fee, Gymk fee, Student activity fee, Students' Aid Fee, Univer. Reg., Project fee.
MA Economics	Annual fees ranges from Rs.49202 to Rs.58500 covering heads as Tuition, Student service charges, Library fee, Gymk fee, Student activity fee, Students' Aid Fund, Comp Lab fee, Univer. Reg., Project fee.
FYBSc Statistics	Annual fees ranges from Rs.31120 to Rs.36770 covering heads as University Reg Fee, Tuition Fee, Examination Fee, Student's Aid Fund, Gymkhana Fee, Library Fee, Other Fee, Lab. Pract. Fee, Student Services Charges.
FYBVoc Software development	Annual fees ranges from Rs.39670 to Rs.48000 covering heads as University Reg Fee, Tuition Fee, Examination Fee, Student's Aid Fund, Gymkhana Fee, Library Fee, Other Fee, Comp. lab fee, Lab. Pract. Fee, Student Services Charges.
FY,SY,TY Biotechnology	Annual fee ranges from Rs.63232 to Rs.66300 covering heads as Tuition Fee, Lab. Fee, Lib. Fee, Gym. Fee, Other Fee, Student's Aid Fund, Student Service Charges, Development Fee, Exam Fees, University Reg.Fee, Admst Fees.
Multimedia & Digital film making	Annual fees isRs. 69,500 covering heads as Univer. Reg., Tuition Fee, Students' Aid Fund, Gymk fee, Library fee, other fee, Student Activity Fee,Complab.Fee,Student Service Charges,Examination fee.
3D Media & virtual Reality	Annual fees isRs. 69,500 covering heads as Univer. Reg., Tuition Fee, Students' Aid Fund, Gymk fee, Library fee, other fee, Student Activity Fee,Complab.Fee,Student Service Charges,Examination fee.

- The fee structure of college is approved by Goa University.
- There is a yearly 10% increase in the fee of student support services.
- Exam fees inclusive of total fees.
- The fee structure has been designed as per the subject combination offered by student.

Governing Body

Academic Council Meeting

Board   of   Studies meeting

PART III

ACADEMICS

This section gives details of year wise Academic Programmes, Students Enrollment, Teaching learning and Evaluation, Students Performance and Research and Extension Activities.

3.1 Academic Programmes

Table 3.1.1: Overall Academic Programmes

Level of the Programme	Non-Autonomous	Autonomous				New Programmes Added
	2014-15	2015-16	2016-17	2017-18	2018-19	
PhD	2	2	3	3	3	1
PG	3	5	6	6	7	4
UG	21	21	22	24	26	5
PG Diploma	3	3	3	3	2	--
Diploma	0	0	0	1	1	1
					Total	11

Table 3.1.2: Academic Programmes Existing and New programmes Introduced

BACHELOR OF SCIENCE		POST GRADUATE DIPLOMA
i. Botany	ii. Physics	i. Geo-informatics
iii. Chemistry	iv. Zoology	ii. Computer Applications
v. Computer Science	vi. Biotechnology	iii. Clinical Genetics & Medical Lab. Techniques
vii. Mathematics	viii. Biochemistry*	
ix. Geology	x. Statistics*	
xi. Geography		**PG PROGRAMME (MA/MSC)**
BACHELOR OF ARTS		i.M.A. in Applied Economics*
i. Economics	vii. English	ii.M.A. in Geography
ii. Geography	viii. French	iii.M.A. in Hindi*
iii. History	ix. Hindi	iv.M.Sc. in Information Technology
iv. Philosophy	x. Konkani	v.M.Sc. in Analytical Chemistry
v. Psychology	xi. Marathi	vi.M.Sc. in Geoinformatics*
vi. Sociology	xii. Portuguese	vii.M.A. in Child psychology and development*
		viii.M.A. in English*
B.Voc		Ph.D Centers
i. Software Development*		i. Centre for Research in Hindi
ii. 3D Multimedia & VFX*		ii. Centre for Research in Geography
iii. Multimedia & Digital Filmaking*		iii. Centre for Botany
*New programmes introduced after 2015.		

3.2 Students Enrolment

This section shows enrolment of students from the academic year 2014 to 2019-20. It also shows the geographical location of the students and number of students enroled to number of students applied for particular programme.

Table 3.2.1: Student Enrolment Data

		Enrolment Data of Undergraduate Programmes					
Academic Year		2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
BA	F.Y.	120	181	189	186	203	241
	S.Y.	132	102	152	169	162	179
	T.Y.	99	137	93	144	159	158
	Total	**351**	**420**	**434**	**499**	**524**	**578**
% Increase in enrolment							**64.67%**
BSc	F.Y.	139	311	279	312	293	275
	S.Y.	145	123	291	261	276	257
	T.Y.	122	134	121	282	248	269
	Total	**406**	**568**	**691**	**855**	**817**	**801**
% Increase in enrolment						**-**	**97.29%**
BVoc	F.Y.	---	---	---	20	60	38
	S.Y.	---	---	---	---	14	49
	T.Y.	---	---	---	---	---	13
	Total	**---**	**---**	**---**	**20**	**74**	**100**
Academic Year		2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
PG	M.A. Part I	20	38	47	43	48	41
	M.A. Part II	19	19	38	44	41	48
	M.Sc. Part I	40	36	22	28	28	41
	M.Sc. Part II	36	39	35	20	22	27
	Total	**115**	**132**	**142**	**135**	**139**	**157**
% Increase in enrolment							**36.52%**
Academic Year		2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
PGD	CA	30	25	23	13	12	13
	GIS	7	11	24	19	24	23
	CGMLT	3	04	01	04	---	09
	Total	**40**	**40**	**48**	**36**	**36**	**45**
Academic Year		2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Ph.D.	Geography	02	04	04	04	04	04
	Hindi	02	04	04	04	04	04
	Total	**04**	**08**	**08**	**08**	**08**	**08**
Total Enrolment							
Academic Year		2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
Grand Total		**916**	**1168**	**1323**	**1553**	**1598**	**1689**
% increase in enrolment							**84.18%**

It is evident that the enrollment of students to the college under autonomous status has consistently increased in the last five years. In 2014-15, the student's strength was 920 which has increased to 1689 during the academic year 2019-20, a rise of 83.58% (Table 3.2.1). Though both Arts & Science programmes have experienced increase in student's enrollment, the B.Sc. programme enrollment has increased by 97% mainly because of introducing of new programmes like Biochemistry and increase in number of batches for Biotechnology and Zoology.
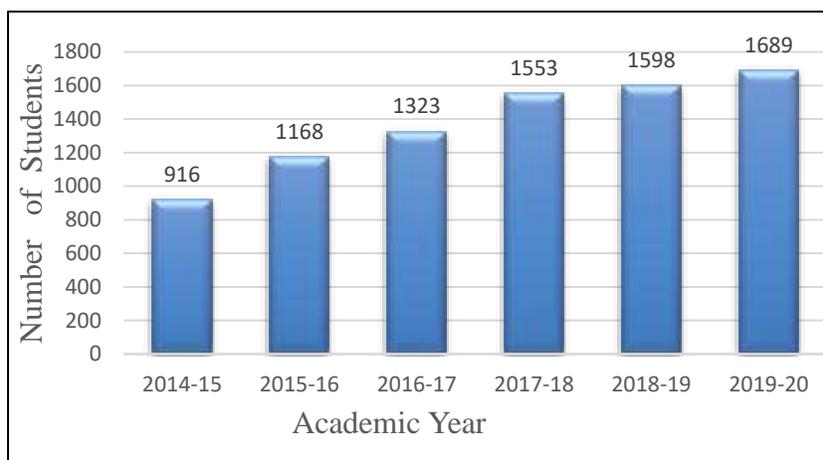
Figure 3.2.1: Student Enrolment Data (2014-2019)

Table 3.2.2: Demographic Location of Students

The number of students seeking admission in college from outside the state show increase though not very significant (Table 3.2.2). It should be noted that certain programmes which are unique attract students from other states.

Students Enrolled	2014-15	2015-16	2016-17	2017-18	2018-19	2019-20
From Goa	897	1130	1197	1494	1540	1644
Outside Goa	18	33	118	55	51	41
Outside India	1	5	8	4	7	04
Total	**916**	**1168**	**1323**	**1553**	**1598**	**1689**

Table 3.2.3: Number of Student Applicants versus Number of Students Enrolled During (2018-19, 2019-20)

	2018-2019		2019-2020	
	No. of Applicants	**No. of Students Enrolled**	**No. of Applicants**	**No. of Students Enrolled**
FYBA	365	203	392	241
FYBSc	915	293	813	275
FYBVoc	111	60	59	38
PGDCA	24	12	26	13
PGDGIS	39	24	30	23
MA Part I	79	48	55	41
MSc Part I	62	28	90	41

Number of students admitted for all programmes vis a vis number of applications received shows variance. Number of students applying for undergraduate programmes are much higher than number of students admitted as compared to Post Graduate programmes.

3.3 Teaching Learning and Evaluation

Teaching learning and evaluation is the core thrust area of an autonomous college. Higher education emphasis that teaching learning and evaluation should be a continuous process and should be integrated. The focus should be student centric and able to cater students need and learning abilities. In view of this the college has been able to integrate diverse methods of teaching and evaluation to improve academic effectiveness.
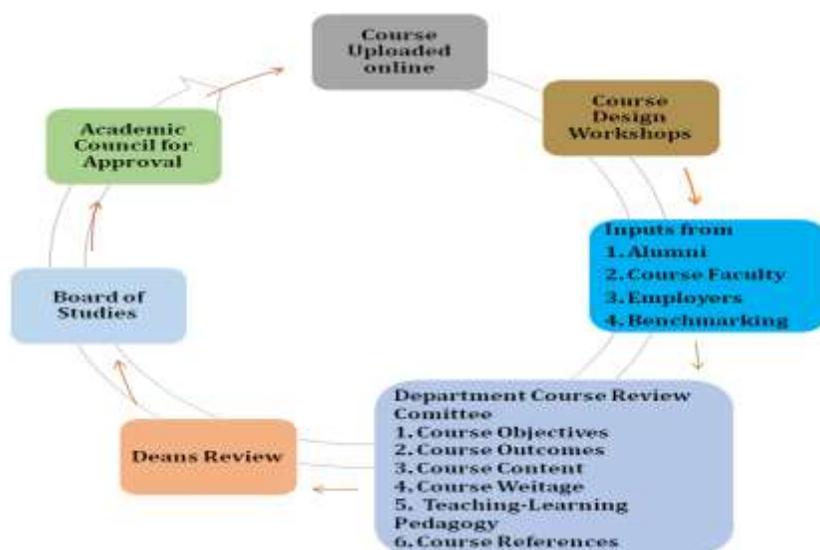
Figure 3.3.1: Workflow of The Initiatives and Processes of Functions

1) **Teaching-Learning Process:**
   Apart from curriculum designing, the core focus of autonomous college is to evolve and innovate teaching-learning-evaluation process.
- In the teaching-learning process, The IQAC has been able to stride or steer head this process. IQAC was responsible for monitoring the adherence of the faculty by developing:
   i. Guidelines of college for quality CLAAP resources.
   ii. Guidelines for Assignment writing.
- Providing necessary infrastructure for the faculty to enhance teaching-learning process. Experimenting with 'Problem – solving based learning'. This has enabled the college to make the teaching-learning process student centric.
- Skill based certificate courses conducted to provide skills and additional knowledge in a wide variety of fields related to each subject.

2) Teacher Quality:
The IQAC conducted meetings with the aim of improving the quality of learning.

- Review meetings with faculty were conducted to monitor:

i. The Chowgules Learn Anytime Anyplace (CLAAP) programme -The faculties were guided in preparing their teaching plan/ course plan, course schedule, objectives, learning outcomes, assessment modes, evaluation dates etc.

ii. Online assessment of the faculty by the students.

- Departmental meetings were conducted to assess the progress and prepare future plans of departments.
- IQAC also encouraged faculty for preparing research proposals.
- Management fund was provided for conducting activities, organizing seminars / workshop / conferences and special lectures.
- The UGC, Faculty Development Programme was availed by two faculty members in pursuance of their research.

3) Evaluation Process and Reforms:
- Mode of Evaluation was explained to all students during the induction Programme.
- The assessment guidelines were displayed on the college website to ensure transparency.
- The schedule of examination and distribution process of marks were displayed in the campus.

Figure 3.3.2: Measures Adopted to Make Learning Student Centric
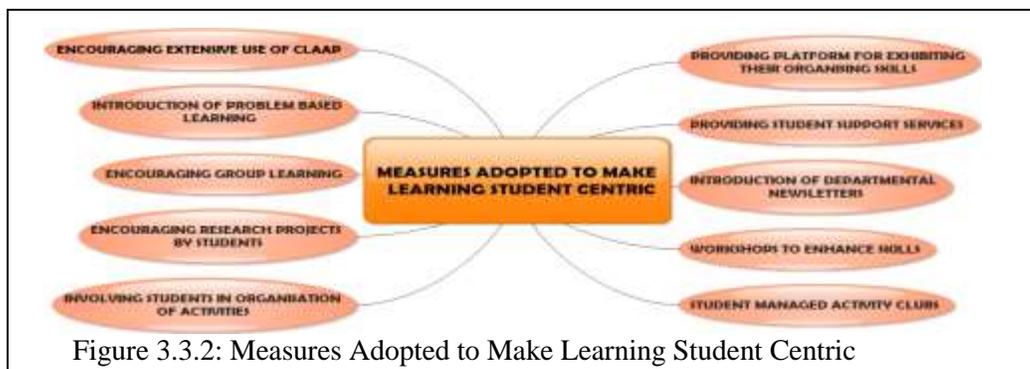
4) Student Performance and Learning Outcomes
- The above Figure 3.3.2 summarizes the initiatives taken to make teaching process student centric and to enhance their performance.
- The CLAAP provides a platform for the student and teacher to interact academically and initiate discussion.
- Problem Based Learning activities conducted by the teachers makes the students independent learners and provides them with work related competencies.
- Students are motivated and made responsible for planning and execution of college events, which builds their self-confidence and polishes their organizational skills.
- The newsletters by various departments provide an opportunity for students to learn and exhibit their skills and knowledge in designing, thereby giving them an opportunity to understand journalism and writing.
- The Student Support Services conducted various workshops to create a learning environment conducive for critical thinking, creativity and to develop scientific temper amongst students.

- The HR wing of the college collaborated with various industries, institutes and hospitals for the benefit of the students, which promoted opportunities for internship / on job training / practical exposure and projects.
- The college promoted study tours and field tours for the students, enabling hands on knowledge and motivated the students for the student exchange programmes and internships at industries and institutes.

5) **Implementation of Outcome Based Education (OBE)**

In order to enhance teaching learning process, the college took initiative to implement the Outcome Based education frame work. In this regard college organized various training sessions for all faculty members by renowned resource persons. We have implemented OBE in a phased manner. The college has finalised the Programme Outcomes, Programme Specific Outcomes for various programmes offered by the College. Also, Course Outcomes were prepared for every course offered

6) **Teaching-Learning-Evaluation Through Academic Audit**

In an autonomous Institution, it is essential to ascertain and ensure the quality of different academic processes. Academic Audit was conducted to check conformation by course faculty to the academic standards prescribed by the College. The academic audit encompasses verification of teaching-learning-evaluation processes, innovations and research done by individual teachers. It is aimed at checking if faculty members implement/incorporate the initiatives taken by IQAC/Dean/Principal to enhance the quality of Teaching-Learning-Evaluation processes.

Figure 3.3.3: Academic Audit Process

Table 3.3.1: Types of Resources Provided for the Courses at the Departments		
Resources provided by course coordinator or faculty	1. Worksheets 2. Ebooks 3. Concept Videos 4. Journal Articles 5. Link to open Course ware 6. Text books	7. Link to open Courses wares 8. Lecture notes on CLAAP/Google classroom 9. Instructional supplementary Videos 10. Audio-text 11. Online Questionnaires 12. Video Adaptations

A: Teaching -Learning Processes:

Teaching methodologies adopted by the faculty-members focussed on developing skills in students besides giving information. College has also taken initiative in Structuring Teaching learning processes in an Outcome Based Education framework.

Table 3.3.2: Teaching-Learning Pedagogies Used by Faculty Members		
	Modes of Teaching	
Course Coordinator or Faculty	1. Lecture method 2. ICT supplemented teaching. 3. Group Learning activities 4. Case Studies 5. Experiential Learning 6. Problem Based Learning 7. POGIL	8. Flipped Classroom 9. Field Based studies 10. Projects 11. Student Seminars 12. Group Discussions 13. Outdoor Activities 14. Lab Experiments

B: Evaluation Processes:

Audit of Evaluation Processes: This parameter is a reflection of quality of assessments done for the courses taught. The college emphasizes on use of multiple modes of evaluations to cater to the assessment of different types of learners. The college also encourages teachers to carry out research related to pedagogies of teaching-learning and evaluations. Both formative and Summative modes of assessments are undertaken by the course coordinators. Freedom is given to the faculty to choose suitable modes of assessments as per the defined guidelines given by IQAC wherein the process and rubric of assessment is clearly defined.

Initiatives Taken: To ensure consistency of modes and processes for assessments carried out by faculty for all courses across the departments, the following initiatives were taken up:
1. Policies/guideline documents were revised by the Exam Committee to streamline the process.
2. Handbook on Assessment modes prepared by IQAC was shared with faculty of all departments.
3. 16 modes of evaluation were standardized with well-defined rubrics of assessments.
4. IQAC had organizes workshops for faculty members.

C: Innovations and Research

College has made remarkable progress at streamlining the Teaching-Learning-Evaluation processes. Academic progress is reflected through the research, trainings, workshops, and standardization of processes. Contributions towards Innovations and Research at the College are summarized in Table 3.3.3.

Table 3.3.3: Innovations and Research at the Departments		
Sr.No.	**Areas**	**Describe Innovations/Research**

1.	**Innovation: Teaching-Learning Processes**	**Major initiatives**
		• Teaching –Learning-Evaluation processes were strengthened.
		• Curriculum of all courses was revised to align with Outcome based Education Framework.
		• Revision of COs and PSOs was undertaken to to align with requirements of OBE.
		• Workshops were conducted to bring about consistency of T-L-E processes:
		- Flipped classroom
		- Problem based learning
		- Effective Journal
		- Blooms taxonomy in teaching for new teachers.
		• New Journal Format Implemented by some departments based on the workshop conducted and format provided.
		• Problem Based Learning, Cooperative learning strategies introduced and adopted by 08 departments.
		• Received research funds from Directorate of Higher Education (DHE) on T-L-E processes:
		- Research on T-L-E pedagogies.
		- Use of ICT teaching-Learning.
		• Research Papers were presented and published related to T-L-E processes.
		• Research publications and paper presentations on Education encouraged.
		• Ongoing research on:
		    - Assignment writing
		    - Practical Pedagogies
		    - ICT in Teaching
		    - Peer tutoring

3.4 Students Performance

Table 3.4.1: <u>Semester – Wise Passing Percentage of students of B.A. , B.Sc. (A.Y. 2015-16 onwards)</u>

Class	Number of students enrolled	Admission Year	Semester I	Semester II	Semester III	Semester IV	Semester V	Semester VI
B.A.	181	2015-16	91/181	117/181	113/152	106/152	104/144	100/144
		Percentage	**50.27%**	**64.64%**	**74.34%**	**69.73%**	**72.22%**	**69.44%**
B.Sc.	311	2015-16	244/311	222/311	228/291	233/291	184/282	224/282
		Percentage	**78.46%**	**71.38%**	**78.35%**	**80.07%**	**65.24%**	**79.43%**
B.A.	189	2016-17	90/189	102/189	91/169	76/169	97/159	125/159
		Percentage	**47.62%**	**53.97%**	**53.84%**	**44.97%**	**61.00%**	**78.61%**
B.Sc.	279	2016-17	181/279	103/279	142/261	167/261	170/248	178/248
		Percentage	**64.87%**	**36.92%**	**54.41%**	**63.98%**	**68.54%**	**71.77%**

- **An additional 15 B.A. and 17 B.Sc. students from the batch 2015- 2018 passed out in May 2019.**

Table 3.4.2: <u>Passing Percentage of Students enrolled at the Third Year who have completed requisite credits</u>

Admission Year	Month and Year of passing	Programme	Number of students enrolled	Number of students appeared at Third Year	No of students completing requisite credits	Passing percentage
2015-16	May 2018	B.A.	181	144	96	66.66
		B.Sc.	311	282	210	74.47
2016-17	May 2019	B.A.	189	159	95	59.75
		B.Sc.	279	248	169	68.15

- **An additional 15 B.A. and 17 B.Sc. students from the batch 2015- 2018 passed out in May 2019.**

Table 3.4.2: Passing Percentage of students of Post Graduate

| Year	Programme	No. of Students appeared	No. of students passed	Passing %
2015-16	PGD Computer Applications	24	23	95.83
	PGD GeoInformatics	11	11	100.00
	PGD Laboratory Techniques	4	4	100.00
2016-17	PGD Computer Applications	21	18	85.71
	M.Sc. Information Technology	16	16	100.00
	M.A. Geography	12	12	100.00
	M.A. Hindi	14	14	100.00
	M.Sc. Chemistry	19	6	31.58
	M.A. Applied Economics	10	5	50.00
	PGD GeoInformatics	24	24	100.00
	PGD Laboratory Techniques	1	1	100.00
2017-18	PGD Computer Applications	13	12	92.31
	M.Sc. Information Technology	17	17	100.00
	M.A. Geography	21	21	100.00
	M.A. Hindi	10	10	100.00
	M.Sc. Chemistry	3	1	33.33
	M.A. Child Psychology	5	5	100.00
	M.A. Applied Economics	8	8	100.00
	PGD GeoInformatics	19	19	100.00
	PGD Laboratory Techniques	3	3	100.00
Year	Programme	No. of students appeared in final year examination	No. of students passed in final year examination	Passing %
2018-19	PGD Computer Applications	12	12	100.00
	M.Sc. Information Technology	15	13	86.67
	M.A. Geography	23	18	78.26
	M.A. Hindi	5	5	100.00
	M.Sc. Chemistry	8	8	100.00
	M.A. Child Psychology	10	3	30.00
	M.A. Applied Economics	4	3	75.00
	PGD Geo-Informatics	24	21	87.50
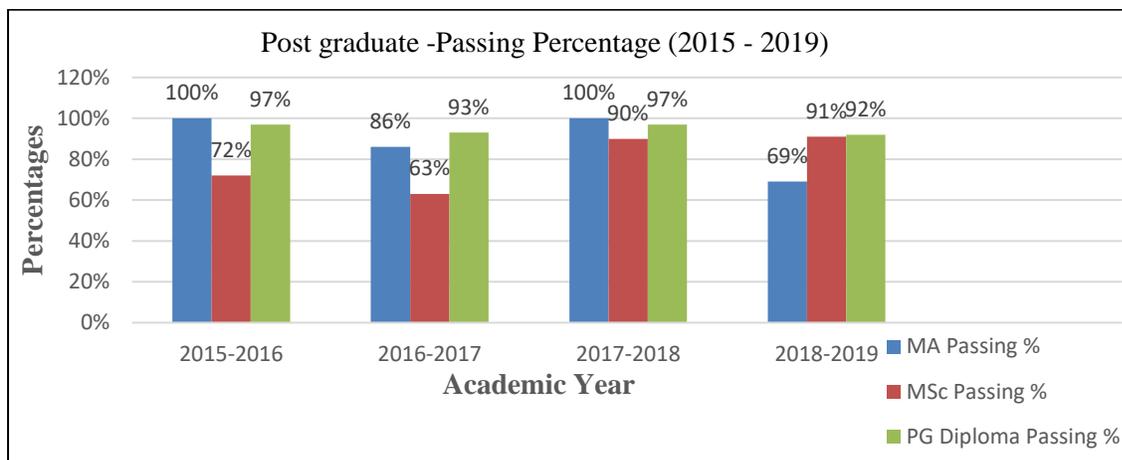
Figure 3.4.2: Post graduate - Passing Percentage (2015 - 2019)

3.5 Research and Extension Activities

With the implementation of Autonomy in 2015-16, the 'Research, Consultancy and Extension Activities committee of the college (RCEA-PCCAS) redefined it's goals. The Research committee/Criteria III coordinator of IQAC, made a strategic plan of promoting and strengthening research on campus and focus on quality of research. Accordingly, short term and long-term goals were laid and planned for execution of the same was prepared. The IQAC/ RCEA-PCCAS initiated and conducted multiple programmes to sensitise and promote conducive research environment for faculty and students. Initially the focus was to promote research on campus. The midterm and long-term goals focussed on promoting quality in research publications, facilitating interdisciplinary projects, initiating linkages for research and internships and promoting community outreach activities. A significant number of faculty members are actively involved in research by guiding PhD students in research, undertaking research projects, publishing and presenting their research findings, providing consultancy and carrying out collaborative research activities. The major initiatives undertaken to promote research on the campus are listed in Figure 3.5.1 and are discussed under eight major heads.


Figure 3.5.1: Research Works Undertaken From 2015-2019

1. **Created Research database:** Research portal on college website gives all information and documents related to promotion of Research on the campus. It also harbours information on research publications, seminars/workshop/conferences organised and attended, books authored, research projects undertaken, consultancy works and community outreach activities.

2. **Formulated Research promotion Policies:** The research promotion policy of RCEA-PCCAS explains the processes used to promote research on campus. The policy document highlights research policies for faculty members and students and gives the framework for development and implementation of initiatives taken to promote research at Chowgule College. The components of 'Research Promotion policy' includes Promoting Research Culture amongst faculty and students; Submitting Project proposals to avail funding; Encouraging Completion of PhD by Faculty members; Applying for Research Awards; Availing Seed money for research/Financial aid for Presentation / Resource person; Protocol for using Central Research Laboratory facility and Procedure for Initiating Linkages/MoUs.

3. **Initiatives to promote Quality Research:** As an academic and research institution, the college has taken myriad measures to promote quality in all research activities conducted by faculty and students. Some of the initiatives are as follows:
   a. '**Guideline Document on Research Ethics'** was formulated to governs the standards of conduct of researchers on the campus. While carrying out research, it is important to adhere to ethical principles in order to protect the dignity, rights and welfare of research participants. It is also important to curb plagiarism, and conform to the requirements of quality of research publications. '*Guideline Document on Research Ethics'* includes importance and procedure of Ethical Clearance for research projects; Avoiding Plagiarism; Research Publication Ethics and Quality Publications (UGC- CARE list).
   b. **Constituted 'Institutional Ethics committee:** College constituted Institutional Ethics committee (IEC-PCCAS) as per the guidelines of Indian Council of Medical research (ICMR). The objective of IEC-PCCAS is to ensure that research in PCCAS involving human beings as participants shall follow the standards and principles prescribed in the Indian Council of Medical research (ICMR) Ethical Guidelines.
   c. **Conducted workshops to Promote Quality Research:** Various workshops and seminars conducted to promote quality publications are: Research Data Management to give global platform – ORCID registration; Facilitating H Index and Metric calculation – RESEARCHERID registration; 'Writing Research papers – Academic – Mendeley'; 'Scholarly Communications- How to avoid / identify fake Predatory journals; "Connect your achievements and contributions on Global Registry'; 'Metrics as measuring scholarly articles'; "Funding Schemes' for the Temporary/Contractual faculty members; "Avoiding Plagiarism"; "Referencing Styles" and Research Orientations.
   d. **Instituted Award for quality publications:** College instituted Annual 'Certificate of appreciation' and Cash prize to faculty with publication with highest impact factor journal listed in web of science/ Scopus / ICI.

4. **Initiatives to Encourage Research Project funds:** To tap the research potential of the faculty members, the RCEA-PCCAS/IQAC had undertaken numerous initiatives.
   a. **Guide to Research funding***:* To encourage projects, the RCEA-PCCAS has prepared policy document on 'Guide to Research funding' which is available on the research portal of the college website.

b. **Workshops:** It also organised workshops regularly on 'Project proposal writing', Research Methodologies, 'How to formulate Good research proposal' and 'Funding Schemes for Temporary/Contractual faculty'.

c. **Invited lectures:** College also invites renowned researchers on campus.

d. **Proposal submission protocol:** The RCEA-PCCAS has prepared guideline for faculty members to understand the procedure of applying for funds. The committee actively participates in helping Faculty members to check for adherence of format, document attachment and organisation.

e. **Specialised Research labs:** As research is the key focus of this institute, management of the college introduced specialized research laboratories such as Geographical information services Lab (GIS), Photogrammetry Lab, Human Genetic Research lab, Plant Physiology lab, Plant tissue culture lab, Environmental lab and Analytical lab.

f. **Central Research Lab**: College has created central research facility with funds from RUSA and DBT Star College Scheme. This Central research Lab (CRL) harbors common high-end instruments viz Gel Doc, Tissue culture facilities etc.

5. **Promote interdisciplinary research and sharing research findings**: Research Committee had initiated 'Faculty Hour' as a platform to promote sharing of research findings amongst researchers. Thereafter, 'Research Discussion Forum' (RDF), was initiated to encourage interdisciplinary/interdepartmental research projects. Under RDF formal and informal meetings are conducted to know about the research domain of researchers on the campus, which can then culminate into formation of a team for interdisciplinary projects.

6. **MoUs and linkages:** In addition to the breadth and depth of research conducted in the college Laboratories, the institution has and seeks to develop collaborations with international, national and local organizations and industries and hospitals. Linkages were also initiated with institutions and companies, for research activities, internships and job placement for students. After autonomy, number of MoUs and linkages with state/national /international institutions for facilitating research, encourage industry-academia research initiatives and internships, increased drastically.

7. **Consultancy:** The institute also offers consultancy services and contributes to the society through various extension works. Consultancy services are offered in the department of Geography, Zoology, Computer science, Geology, Counselling centre and Studio. The faculty also takes up consultancy works, engaging government institutions academia, civil society and community organizations. Chowgule college is also identified as 'Technical Support Group' (TSG), by the Goa State Biodiversity Board, to enable the 'Biodiversity Management Committees' (BMC) of Panchayats in Goa, to document the biodiversity and traditional knowledge of the villages. This is a collaborative effort of faculty from department of Geography, Zoology and Botany. IQAC of the college also offers consultancy in administrative processes related to autonomy and Teaching-Learning-Evaluation' processes. Consultancy policy is framed to serve as guideline for execution and revenue sharing.

8. **Strengthening & promoting community outreach activities:** The RCEA-PPCAS made efforts to promote extension activities and community outreach activities. Besides the NSS unit of the college, outreach activities were promoted at various departments of the college. The activities were organised for the benefit of the less privileged and marginalized section of society and also to bring awareness of health issues and contribute to improvising quality of education in the neighboring schools/colleges.

Figure 3.5.2: Summaries, multiple initiatives that were undertaken and executed year wise to achieve the end target of promoting quality and quantity of research on the campus.

Figure 3.5.2: Milestones of Major Achievements Year wise
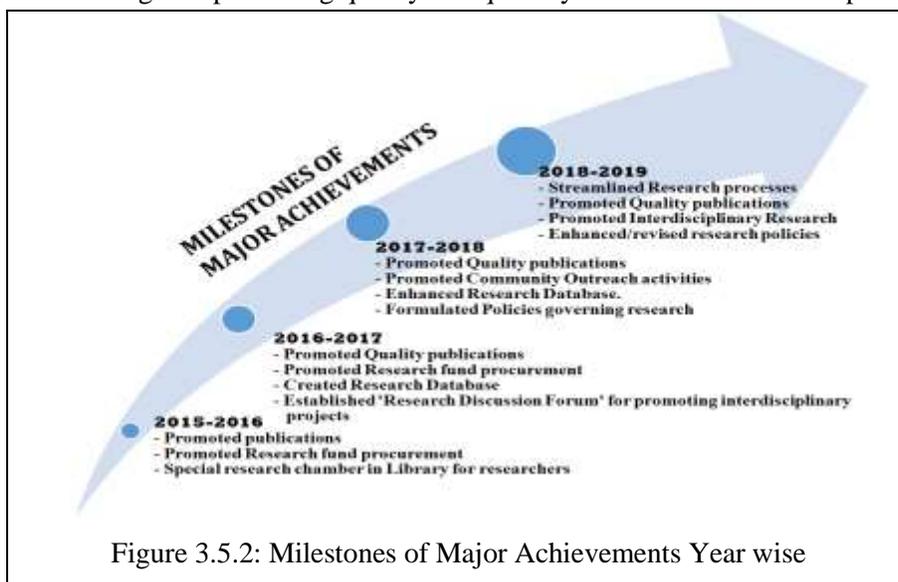
Outcome: As a result of all these initiatives, research at the college was enhanced qualitatively as well as qualitatively. The protocols for conduct of research were streamlined and faculty members played proactive role in obtaining funds through various funding bodies, presenting and publishing papers, organising and attending conferences/seminars/ conferences and conducted multiple Industry-Academia lectures, were invited as resource persons, carried out consultancy projects (Table 3.5.1) shows Research Progress for past six years.

Table 3.5.1: Research Progress for Past Six years

Academic Year	Papers publis-hed	Papers presen-ted	Conferences/ seminars workshops organized	Conferences/ seminars workshops attended	Faculty as Resource person	Books authored / edited/ chapters	Extension works	Commu-nity outreach	Resea-rch projects
2013-14	13	29	17	51	24	7	9	28	5
2014-15	22	41	15	37	33	5	28	16	4
2015-16	38	11	40	46	50	7	46	23	6
2016-17	32	39	32	58	73	11	46	29	3
2017-18	31	32	32	18	18	9	62	55	10
2018-19	30	39	41	50	44	9	45	65	7
AVERAGE	27.67	31.83	29.5	43.33	40.33	8	39.33	36	5.833

Research Progress Summary:

a) **Research projects:** As a result of promotion of research on the campus, many research proposals are submitted by faculty members and sanctioned by various funding bodies. Research findings are presented or published in reputed journals. We have received research grants for 35 Major and minor research projects from UGC, DST, SERB, ICSSR MoEF and DBT. Through the research work of our faculty and students we aim at addressing social issues, environmental issues and contribute to improvising environment or human heath in general. College also received the prestigious **DBT Star College Scheme,** the only college to receive this fund in Goa. Under this scheme we received fund of Rupees 123 lakhs for improvising quality of practicals conducted at six departments and for promoting interdisciplinary research and projects. The number of research projects obtained year wise is indicated in table.
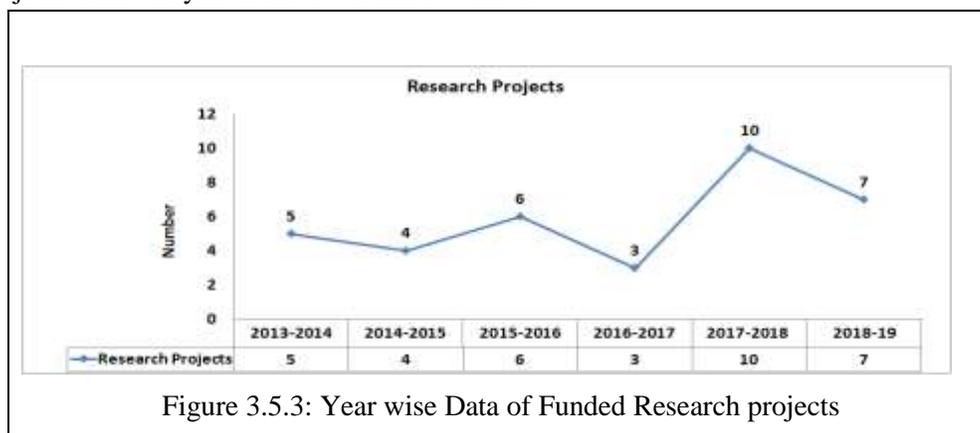

Figure 3.5.3: Year wise Data of Funded Research projects

b) **Publications:** The faculty and students are encouraged to publish research papers, present research findings and attend conferences/ seminars/ workshops to upgrade their research capabilities. Average annual research publications are 30.5±11.7. Younger faculty and students present their research findings at international, national and state level conferences. Average annual research papers presented are 31.8±1.9. Initially measures were taken to increase paper publications. In 2017, workshops were conducted to bring awareness on predatory journals and focus on publishing findings in UGC listed journals
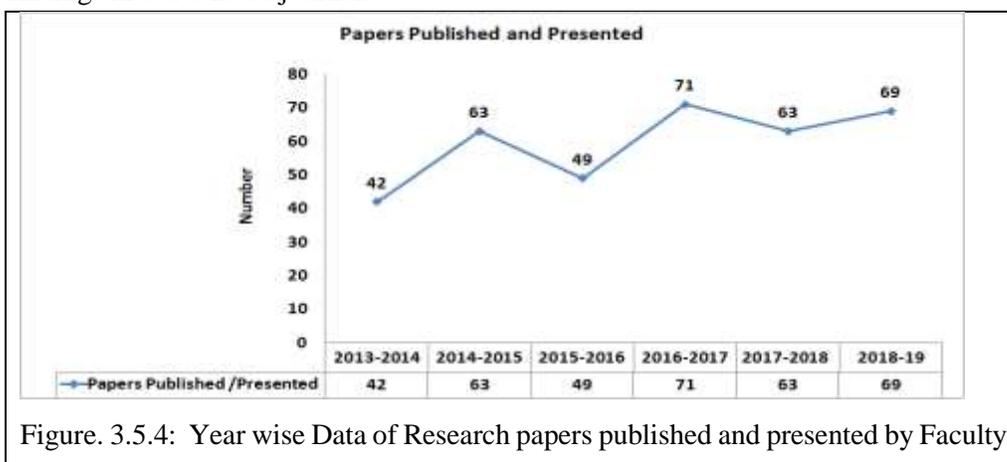

Figure. 3.5.4: Year wise Data of Research papers published and presented by Faculty

c) **Books:** Many faculties share their knowledge and expertise through the media of books. Our faculty have authored books which serve as reference books or text books for institutions and professional colleges. Some have edited books or contributed chapters for books.
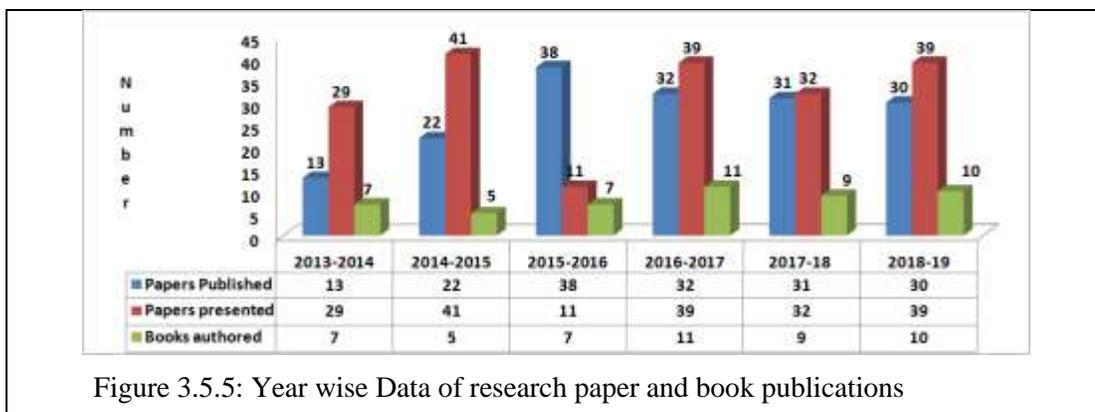
Figure 3.5.5: Year wise Data of research paper and book publications

	2013-2014	2014-2015	2015-2016	2016-2017	2017-18	2018-19
Papers Published	13	22	38	32	31	30
Papers presented	29	41	11	39	32	39
Books authored	7	5	7	11	9	10

d) **Community outreach and extension activities:** The institute also contributes to the society through various extension services and community outreach activities. Initiatives towards spread of awareness on research ethics was manifested through conduct of seminars/ talks for faculty members. Guest lecturers/Industry-Academia Lectures were organised by various departments. Our faculty members were also invited as resource persons. There were MoUs signed and new linkages created every year for the purpose of research and internships.

Multiple activities and programmes were organised to sensitize students to the social issues and Inculcate values and commitment to society, by the NSS unit of the college as well as other departments.
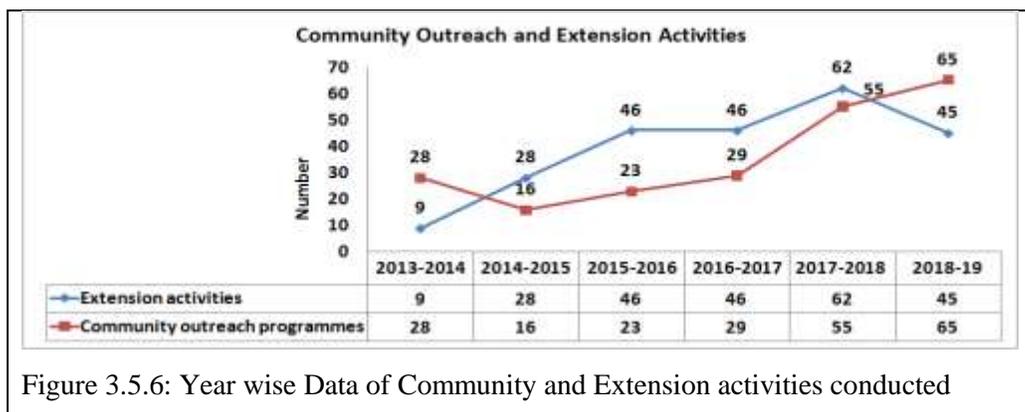

	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-19
Extension activities	9	28	46	46	62	45
Community outreach programmes	28	16	23	29	55	65

Figure 3.5.6: Year wise Data of Community and Extension activities conducted

e) **Awards:** College has Instituted Research award 'Best Teacher- Excellence in Research and consultancy' to faculty members with highest 03year cumulative API scores as per UGC guidelines of Criteria 3 (Citation and cash prize) The institution has instituted research awards since 2010. Every year, on Founders day, award for excellence in research and consultancy is given to the faculty who the highest Academic Performance Index scores (API) in Research and consultancy of three consecutive years. This is an initiative of the college for appreciating the contribution made by researchers and also to promote quality research.

To conclude, the college has made progress in obtaining research grants from various funding bodies, promoting interdisciplinary projects, enhancing the quality of research publications, promoting academic integrity and research ethics, conducting multiple activities and programmes were organised to sensitize students to the social issues and Inculcate values and commitment to society.

Teaching Learning

Students at the College Chemistry Lab

MoU

Non-Evaluative Credit (Social Credit): Colva Beach Clean

PART IV

STUDENTS ENGAGEMENT

This section gives insight of student's activities, Exchange Program with other universities, Internships and Students Pursuing Higher Studies and Placement records.

4.1 Students Activities
(2015 – 2019)

Chowgule College has always been in the forefront of creating an encouraging atmosphere for students to express themselves through activities organized in the college as well as in those organized by other institutions. Although prior to Autonomy the college had a number of events, activities, and participation, it has been evidenced that there has been a post-autonomy boom of activities, which has been in part due to the structured nature of how the college has introduced Non-Evaluative Credits to drive students into participating, organizing and competing. This is in keeping of its vision of creating students who are truly complete and add value to their education.

To give a short overview of how the institution looks at activities -

Figure 4.1.1: Overall structure of activities

Using a two-pronged approach, the institute divides the responsibility of organizing as well as participating in activities, where the departments play an equal if not a more responsible role. Since Autonomy the number of curricular activities has definitely seen a dramatic increase. These are activities, events etc. that are a direct outcome of the changing teaching-learning and evaluative dynamic emerging from autonomy. Under extracurricular activities also there has been a dramatic increase as students mandatorily have to be a part of some sort of extracurricular activity – this too is a direct outcome of the change in structure. To facilitate this, we have kept our NSS, NCC units, and Sports, and have added a few more areas – Life Skills, Exchange Programmes (Cultural), and Clubs. The Club System allows students to pursue their interests along with others who share the same passions. The clubs can be in Sports, Literary and Arts, and in Life Skills. Under co-curricular activities fall all extension activities, as well as events. The institution plays the role of a facilitator – many activities that have started at the level of the institution has been then shifted to the level of the department, and events at the level of the department have been institutionalized.

Figure 4.1.2: Institutional Activities

The same overall structure is maintained at both the Institutional and Departmental level. Under the Institutional Curricular Activities, we have the National Service Scheme (NSS), National Cadet Corps (NCC), as well as our Internship, and our Non-Evaluative Programme. The Exchange programme is an avenue that allows students international exposure, which the students have used well. We too have converted our cultural exchange programme into an academic one, which is bearing fruit, now. Community outreach which has been a departmental responsibility, has been institutionalized as well from the year 2019 - 2020.
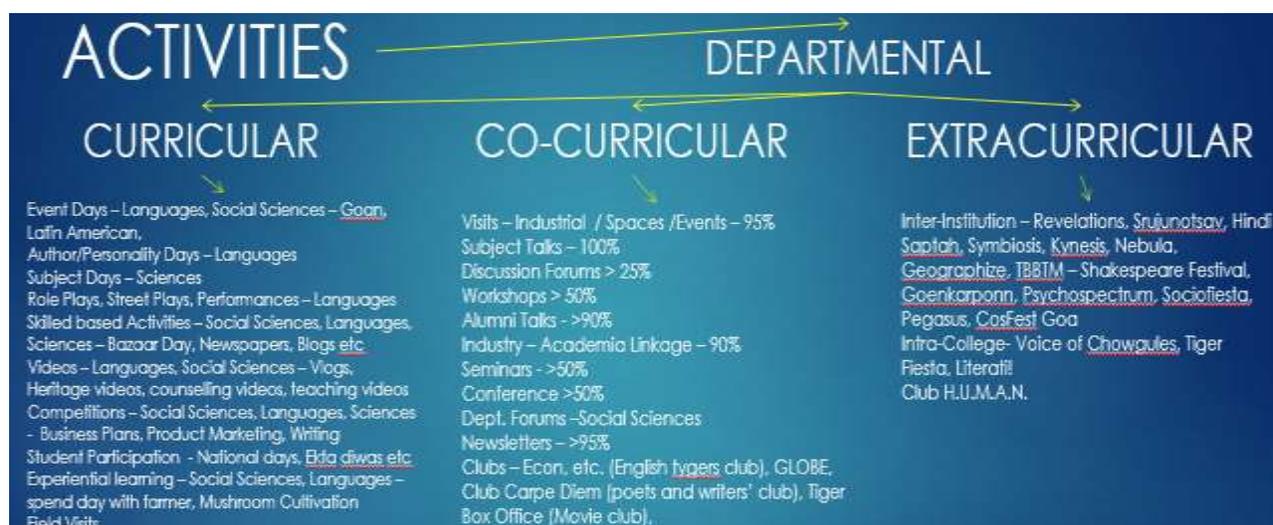

Figure 4.1.3: Representative image of Departmental activities

We have seen a phenomenal rise in departmental events. Currently, we have 24 departments with all departments organizing activities at one or the other area, through the year. Subject talks, Industry-Academia Linkage, Inter-class/intra-class/interschool/inter-higher secondary, or inter-college events are a norm for all the departments, not to mention field-visits, study tours, extension and community outreach activities, as well as student research paper presentations, and participation in a variety of events across the state and nation.

As can be seen above the number of institutional events and activities has gone up, along with the number of activities at the departmental level, despite the obvious shift of responsibilities. In Figure 4.1.5, the number of total activities at the Departmental Activities came down as the Club System for students took off. It was a year of rebalancing numbers as a large number of activities got subsumed into the club system.
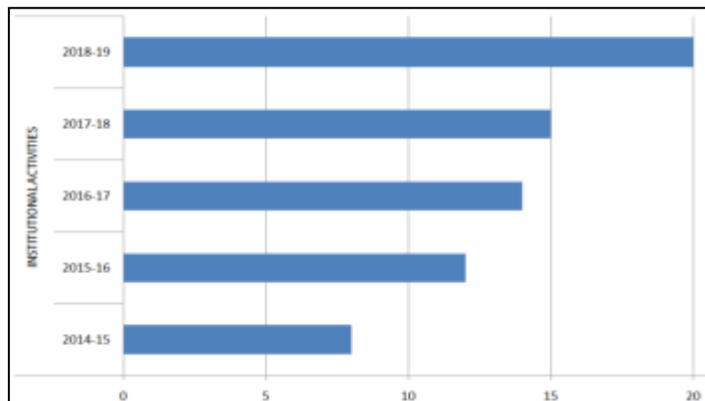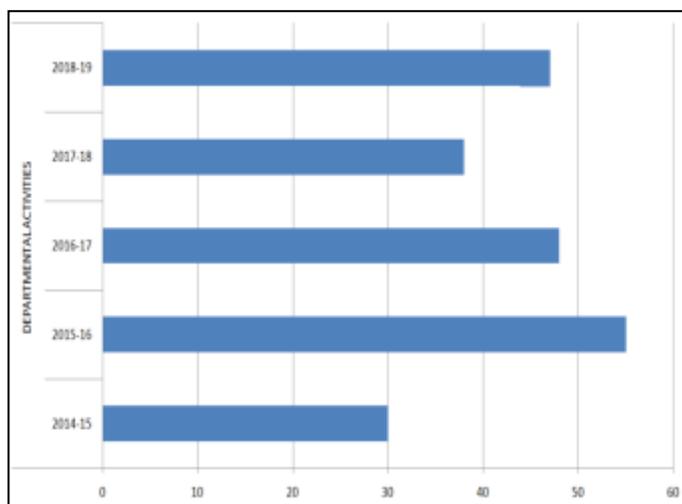

Figure 4.1.4: Institutional Activities

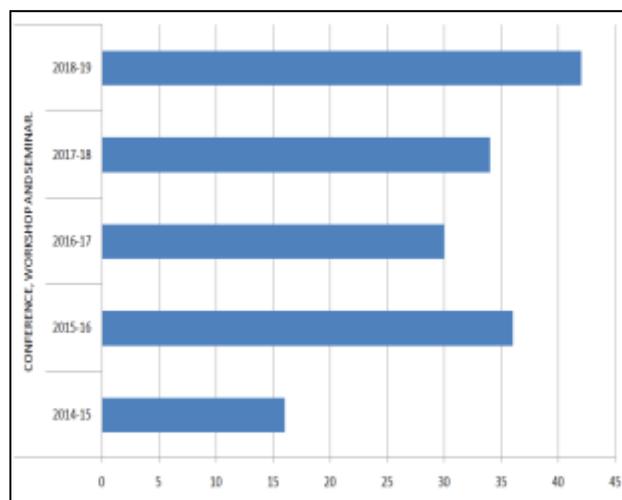Figure 4.1.5: Departmental Activities
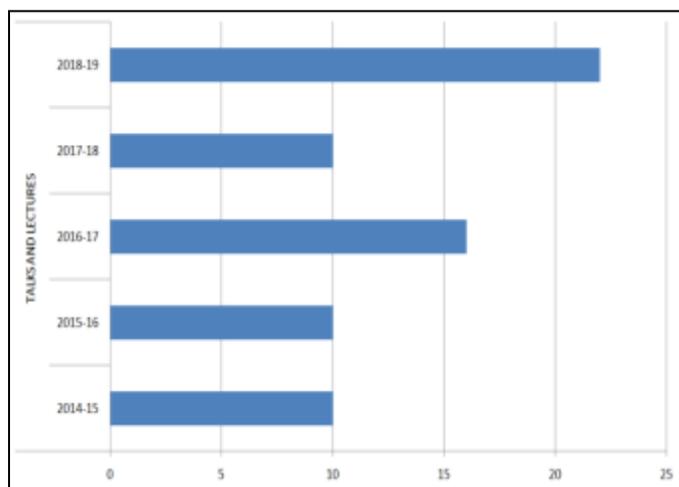

Figure 4.1.6: Conference, workshop and Seminar

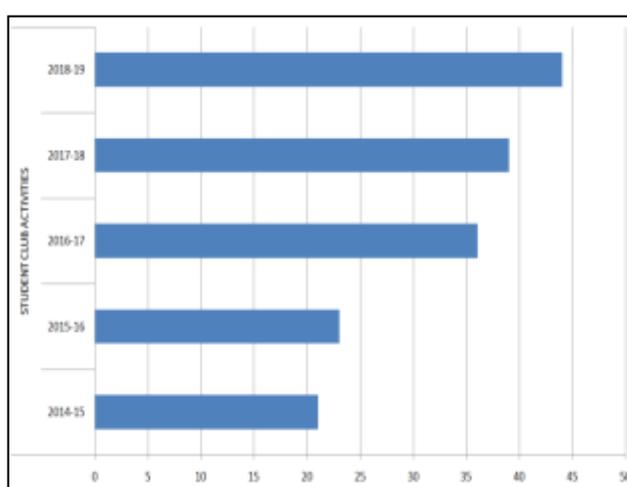Figure 4.1.7: Talks and Lectures

Figure 4.1.8: Student Club Activities

Figures 4.1.6, 4.1.7 and 4.1.8 show the increase in activities in all areas proving the efficacy of the processes involved. The Non-Evaluative Credit System was introduced as a part of Autonomy, which was one of the systemized process that the institute adopted. As is observed the total number of activities has seen a major increase. An important point to not that about the Club Activities - the numbers are the total number of clubs. Each club conducts at least 5 activities a year, which raises the total number of activities by the clubs to above 200 activities as of 2018 – 2019.

Decentralizing and shifting of responsibilities has helped increase numbers of activities across the board. Where responsibilities used to lay at the feet of the college, now departments have taken it up as they maybe in a better state to organize them.

4.2 Exchange Program with other Universities

The College has always set international standards, one such initiative was, International exchange programs, with an aim to provide opportunities to students to broaden their academic sphere and international perspective, get global experience, to exchange ideas and experiences with their counterparts in other countries.
The college has long term and short-term programs with universities in Europe and Asia. Presently we have agreements with Waseda University, Tokyo Japan, Kansai University Osaka, Japan, University of Porto, Portugal, University of La Reunion, France and Tullinge gymnasium and Bromma gymnasium, Sweden.

Student Exchange Programs: Short Term
From 2015 to 2019, 66 of our students visited Tullinge and Bromma gymnasium, Sweden on a short-term exchange program while 32 students visited Waseda University, Japan.
69 students visited Parvatibai Chowgule College of Arts and Science on a short-term exchange program from the above-mentioned educational institutions.
Academic Transfer of Credits: Long term
Academic transfer of credits commenced from June 2017. 5 students have taken this advantage
Two students from Waseda University and one student from Kansai University, Japan were on the campus during the academic year 2018-19.
International Scholarships Awarded
Two students have got scholarships for study abroad programs namely, JASSO scholarship for advanced course in Japanese language and US-Khoranna scholarship, USA.
International Faculty
The college has also had a full-time faculty from University of Porto to teach Portuguese language in the Department of Portuguese since 2012.
Visiting Faculty on Campus
Since 2016, the college has invited 7 visiting faculty from University of Porto, Portugal, Sophia University, Japan and University of La Reunion to conduct short courses and guest lectures.
Two faculty from Parvatibai Chowgule College visited La Reunion on short term visit for delivering guest lectures and research at University La Reunion.
Research Scholars and Faculty on Sabbatical Visits
Three research scholars visited for research and doctoral guidance in 2017-18 and 2018-19.

Table 4.2.1: List of International MOUs

Country	Institution	Year of signing MOU
	Waseda University and Kansai University, Japan agreement signed for cultural, academic exchange and teaching and research.	12th April, 2016 13th February, 2017
	Bromma gymnasium and Tullinge gymnasium Sweden agreement signed for cultural exchange.	02-05-2016 May 3rd 2016
	University of Porto, Portugal agreement signed for short term, academic exchange and teaching and research	2nd January, 2018
	University La Reunion, agreement signed for faculty exchange and research	August 2018
	Sri Lanka agreement signed for exchange program and collaborative research	16th October 2015
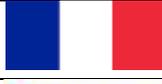
Table 4.2.2: Students Exchange programs: Cultural

	Year	Place & Country	No of students	No of teachers
Outgoing	2015-16	Tullinge Gymnasium, Sweden	20	5
		Waseda University, Japan	11	2
	2016-17	Tullinge & Bromma Gymnasuim, Sweden	18	4
		Waseda University, Japan	7	2
	2017-18	Tullinge & Bromma Gymnasuim, Sweden	18	3
	2018-19	Tullinge & Bromma Gymnasuim, Sweden	10	2
		Waseda University, Japan	14	2
	2019-20	Tullinge & Bromma Gymnasuim, Sweden	9	1
Total Number		**Outgoing students**	**107**	**21**
	Year	Country of origin	No of students	No of teachers
Incoming	2015-16	Sweden	20	5
	2016-17	Sweden	18	4
		Japan	6	—
	2017-18	Sweden	16	5
	2018-19	Sweden	9	4
Total Number		**Incoming students**	**69**	**19**

Table 4.2.3: Student exchange: Academic

(i) Academic Transfer of Credits: Outgoing Students

Year	University	Course	No of Students
2017-18	Waseda University, Japan	Advanced Japanese language course	1
2019- 20	Waseda University, Japan	Graduate program in Psychology	1
2018-19	Kansai University, Japan	Course on Frontier in Global Education	1
	University of Porto, Portugal	UG program in English & French	1
2019-20	University of Porto, Portugal	UG program in English & French	1
Total			7

4.3 Internship

The internship program at Parvatibai Chowgule College of Arts and Science is designed to allow students to get industry exposure and gauge their skill in the industry. The students may choose to carry out their internship in any organization of their choice. The College has an internship program that is a part of their academic curriculum and is assigned 4 credits. The students usually undertake internships during their summer or winter vacations, but may also choose to do it during the semester as per their college schedule. As a matter of college policy, students are requested to complete the 120 hours before the end of the second year.

Protocol:

The internship program has three aspects:
   a. Pre-internship
   b. Internship
   c. Post-internship

a. Prior to commencement of the internship, students must apply for a request letter from the college. A student is required to submit a 'pre-internship file' which consists of a well written application letter, a resume and a fitness certificate from their local physician. On submitting the file, the college issues the students an 'Internship Request Letter' which they submit to the organization. Subsequently the acceptance letter is also received by the organization.

b. During the internship, the student is expected to maintain a log of daily activities pertaining to the work assigned.

c. On completion of the internship, the student is required to submit a 'post internship file', which consists of an internship report, including skill acquired a photocopy of the internship certificate/letter of commendation.

Table 4.3.1: Year wise breakup of number of internships Completed by the students.

Academic Year	Number of Internships
2014-2015	56
2016-2017	204
2017-2018	241
2018-2019	355
2019-2020	237 (ongoing)

4.4 Students Pursuing Higher Studies and Placement records

Table 4.4.1: Student Progression Report

Programme	Academic Year	No of Students Graduating in minimum stipulated time	No of Students in Higher Studies	No of Students Placed	No of Students with Data Not Available
UG	2015-16	255	94	17	144
	2016-17	190	79	09	102
	2017-18	306	205	55	46
	2018-19	264	164	22	78
PG	2015-16	47	8	26	13
	2016-17	53	5	11	37
	2017-18	62	9	9	44
	2018-19	50	9	11	30
PG Diploma	2015-16	35	1	14	20
	2016-17	43	1	25	17
	2017-18	35	1	22	12
	2018-19	33	1	19	13

U-18 girls Basketball tournament at the College Basketball court

Students Participating at the Departmental Activities

Performance at the campus musical events

International Exchange Programme: Sweden Exchange Programme

ACHIEVEMENTS

The key focus of Parvatibai Chowgule College under autonomous status has been able to make education relevant, imbibe skills and increase scope of employment. Therefore, the curriculum focus has been implementation of choice-based credit system, moreover, on the 'Super Store Model' with thrust on developing core of the subject and providing choices in electives-vertical for career choice or higher education. A component of compulsory courses like Statistics, Academic Writing, Research Writing enables and helps students to develop skills essential to be better graduates.

Parvatibai Chowgule College was able to fulfil the major objectives laid down by UGC. To streamline education, mission statement was formulated by each department to create a focus area for prospective job avenues. As a result of implementing autonomy, Parvatibai Chowgule College was able to bring about major qualitative changes with respect to the academic programmes, foster academic integrity and promote quality research and take measures for holistic development of the students.

a) **Curriculum designing:** Courses of all programmes were designed based on the departmental mission. Core course were designed to give strong fundamental knowledge. Elective courses were floated to impart special trainings/exposure to the essential skills in respective fields to cater to the needs of the employment sectors. Many skill-based courses were floated for each programme for increasing hands-on exposure and internship was made as a compulsory component of the curriculum to offer industrial exposure/on-job training to students. Local needs were also considered while framing curriculum, by having industrial representative on the board of studies of every department and by receiving special inputs for curriculum designing from prospective employers. The holistic curriculum designed with mixture of subject and mandatory foundation courses such as academic writing, cyber security, basic statistics, research writing etc to foster communication skills, thinking skills, problem solving skills, team spirit, ethics and leadership skills.

b) **Teaching-Learning-Evaluation processes (T-L-E):** The Teaching-Learning-Evaluation processes were relooked into in order to incorporate Bloom's taxonomy in learning process as well as evaluations. Multiple workshops were conducted for all teachers to train them to adopt new teaching pedagogies which ensure development of skills in students for information collection and management, understanding and questioning, critical thinking, logical thinking, creative thinking, and knowledge application. IQAC of the college also prepared handbook of various teaching and evaluation methods for the reference of the teachers. The handbook gives information on the process and rubrics of assessment of 16 evaluation modes. The exam committee made several reforms to focus on quality of students and for giving flexibility to faculty members to adopt different modes of assessment, rather than examining students for their memorising skill only. Faculty members of Chowgule College were encouraged to undertake research activities related to teaching-learning methods, quality assignment writing, peer tutoring, problem-based learning; process oriented guided learning, pedagogy of conducting practicals, use of ICT. Several teachers have presented or published research papers on their research findings on T-L-E processes.

c) **Extracurricular /Co-Curricular activities**: Extracurricular community engagement is claimed to enhance a graduate's employability by combining experiential learning, course-work and perhaps community service. The College established students' activity clubs such as nature club, dance club, music club, art and culture club, literary club, sports club, birders club, etc. These clubs provide opportunities for students to enhance their leadership skills, communication skills, task execution skills, and recognize their responsibilities and builds teamwork spirit thus building their

emotional intelligence. Departments introduced Industry-Academia lectures as part of their co-curricular activities to bridge the industry-academia gap. There was considerable rise in seminars conducted by college by inviting industrial experts, entrepreneurs and esteemed researchers. Social responsibility is part of the College mission. Therefore, initiatives were taken to promote community outreach programmes at the departments. The projects/research carried out by students are also focussed on finding solutions to real life issues faced by the local community. Multiple activities and programmes were organised by departments and NSS unit of the college to sensitize students to the social issues and Inculcate values and commitment to society.

d) Research: After autonomy, there was quantitative as well as qualitative progress of Research at the college. Efforts were made to promote and strengthen research on campus. The college has created research portal which serves as E-Database and harbours all data related to research, consultancy and extension activities on the campus. To promote research the college as formulated 'Research promotion policy' which explains the facilities available for faculty members and students to carry out research. It also describes processes for submitting project proposals to avail funding; applying for Research awards; availing Seed money for research/financial aid for paper presentation etc. As an academic and research institution, the college has taken myriad measures to promote quality in all research activities conducted by faculty and students. 'Guideline Document on Research Ethics' was formulated to govern the standards of conduct of researchers on the campus and includes importance and procedure of Ethical Clearance for research projects; Avoiding Plagiarism; Research Publication Ethics and Quality Publications (UGC- CARE list). The college has also strengthened its research infrastructure by establishing Central research lab, besides other specialised laboratories. The college has seen increase in the number of research projects funded by state and national government bodies, number of research papers presented and published books authored/edited and conferences/seminars organised and attended by teachers. Students too were encouraged to present their research findings in conferences. After autonomy, number of MoUs and linkages with state/national /international institutions for facilitating research, encourage industry-academia research initiatives and internships, increased drastically. International research collaborations were encouraged. The college has overall made considerable progress in obtaining research grants from various funding bodies, promoting interdisciplinary projects, enhancing the quality of research publications, promoting academic integrity and research ethics.

e) Community outreach and students Activities: In Pursuits to add value to education and make students responsible, apart from academics, community engagements departmental activities and participation in NCC NSS and sports has given the needed impetus the students are able to develop life skills like self-confidence, ethics, team work, time management leadership and sensitiveness to societal issues

f) The college has been able to use autonomous status in true spirit by providing students global exposure to initiatives like international exchange programmes and academic transfer over last five years there have been students who have taken both the above mentioned facilities at college as well as departmental level larger number of students has been benefited by visiting faculty of foreign universities on the campus

SWOC ANALYSES RELATED TO AUTONOMY

Strengths	Weakness
- Diversed Programmes and courses. - Increase in student enrollment. - Grant of DBT Star College Scheme. - Research based use of teaching methodologies. - Research facilities (lab, statistical center, library, journal, funding). - Lead to Initiate B.Voc Programmes. - Transparent evaluation system. - Use of technology and inhouse Software development. - Specialized Centers (translation, TLC, SAC, SSC). - International Collaborations and exchange Programmes. - Teacher-Student ratio. - Procedure and Policy based functioning in administrative and academics. - State of Art Infrastructure to cater to the needs of autonomous status.	- Non availability of autonomy of UGC grants. - Non-Recruitment of regular teachers. - Lesser number of faculty with Ph.D. - Limited number of recognized research centers. - Low academic Students performance. - Fewer students clearing National level tests.
Opportunity	Challenges
- To market the college outside Goa (other States). - Initiate more skill-oriented programmes and courses. - To increase number of recognized research centers.	- Non availability of funds - To improve the Students academic performance. - Increase the student enrollment for PG Programmes.