



GOA UNIVERSITY

**POSTGRADUATE STUDIES
&
RESEARCH PROGRAMMES**

**PROSPECTUS
2020-2021**

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RAGGING ON THE CAMPUS IS STRICTLY PROHIBITED AND PUNISHABLE BY LAW

Please refer to Page No. 118 for UGC Regulations on Ragging and Page No. 128 & 129 for Affidavit to be submitted by the students and Parents/Guardians

The information contained in this Prospectus is subject to changes with the revision of University Ordinances/Rules. Ordinances are available at below hyperlink <https://www.unigoa.ac.in/index.php#>

OA-20	Ordinance relating to the Policy of Admission to the Post Graduate Academic Programmes of Goa University (Applicable for candidates who registered from the academic year 2018-19 onwards)
OA-18A	Ordinance for Credit-Based Masters Degree Programmes in the subjects of Languages, Humanities, Commerce and Sciences in Goa University and Affiliated Colleges (Applicable for candidates who registered from the academic year 2018-19 onwards).
OA-19A	Ordinance Governing the Degree of Doctor of Philosophy (Ph.D.) (under Section 24(1) of the Goa University Act, 1984) (Applicable for candidates who registered from the academic year 2017-18 onwards).
OB-12	Ordinance regarding the Degree of Master of Philosophy (M.Phil.) (Under Section 24(1) of the Goa University Act, 1984). (Effective from 15th February, 2011)
OS-1	Special Ordinance relating to the conduct of Academic Programmes during the COVID-19 pandemic.

GOA UNIVERSITY

CHANCELLOR



Shri Bhagat Singh Koshyari
Hon'ble Governor of Goa

VICE-CHANCELLOR



Prof. Varun Sahni

ACADEMIC

DEANS OF FACULTY

Faculty of Languages & Literature



Prof. Nina Caldiera

Faculty of Social Sciences



Prof. Sylvia Maria De Mendonca Noronha

Faculty of Natural Sciences



Prof. Kaustubh R.S. Priolkar

Faculty of Life Sciences & Environment



Prof. Prabhat K. Sharma

Faculty of Engineering



Prof. J.A. Laxminarayana

Faculty of Medicine



Prof. Roque G. Wiseman Pinto

Faculty of Education

Vice-Chancellor (under SA-7 (a))

Faculty of Law



Dr. Saba V.M. Da Silva

Faculty of Performing, Fine Arts & Music



Shri Mahesh V. Vengurlekar

Faculty of Design



Prof. Ashish K. Rege

DEANS & VICE-DEANS OF SCHOOLS

School of Sanskrit & Indic Knowledge Systems



***Prof. Vijaya U. Kerkar,
Dean***

School of Chemical Sciences



***Prof. Vishnu S. Nadkarni
Dean***



***Prof. B.R. Srinivasan
Vice-Dean (Academic)***



***Prof. Santosh G. Tilve
Vice-Dean (Research)***

Goa Business School



***Prof. M.S. Dayanand
Dean***



***Prof. P.K. Sudarsan
Vice-Dean (Academic)***



***Prof. K.B. Subhash
Vice-Dean (Research)***

School of Earth, Ocean and Atmospheric Sciences



***Prof. Harilal B. Menon
Dean***



***Prof. K. Mahender
Vice-Dean (Academic)***



***Prof. Vishnu Murty Matta
Vice-Dean (Research)***

ADMINISTRATION

REGISTRAR



Prof. Radhika S. Nayak

CONTROLLER OF EXAMINATIONS



Prof. Anuradha Wagle

FINANCE OFFICER



Prof. Ramesh V. Pai

JOINT REGISTRAR (ACADEMIC)



Shri Donald A.E. Rodrigues

JOINT REGISTRAR (GENERAL ADMINISTRATION)



Shri Muniyoor Shreedhara

DEPUTY REGISTRAR (FINANCE)



Shri Satyavan L. Talwadkar

DEPUTY REGISTRAR (DSW&CA)



Shri Leo Macedo

UNIVERSITY ENGINEER



Shri Vivekanand L. Sawkar

LIBRARIAN



Dr. V. Gopakumar

HEAD OF COMPUTER CENTRE



Shri Sanjay Bandodkar

ASST. DIR. OF PHYSICAL EDUCATION & SPORTS



Shri Milton Fernandes

ASSISTANT REGISTRARS

ACADEMIC-PG

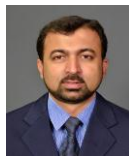


Shri Ashwin V. Lawande













ACADEMIC-COLLEGES



Smt. Sara S. Figueiredo

ACADEMIC - GENERAL**Shri Audhoot Kalangutkar****EXAMINATION-POST GRADUATE****Shri M. G. Lanjewar****LEGAL****Smt. Bertha T. A. D'Mello e Daniel****FINANCE-II****Shri Ashok J. Nagarsenkar****ADMINISTRATION - NON-TEACHING****Smt. Sandhya S. S. Neurekar****EXAMINATION - PROFESSIONAL****Shri Aniket Gaonkar****EXAMINATION-UNDER GRADUATE****Ms. Qubilah Dsouza****FINANCE-I****Shri Amey V. Verenkar****PURCHASES****Smt. Teja S. Shirodkar****ADMINISTRATION - TEACHING****Smt. Kirti Murgaonkar**

DIRECTORATES OF GOA UNIVERSITY

Sr.No	Name	Designation	Function	Photos of Directors
1.	Shri M.K. Janarthanam Directorate of Digital Learning and Initiatives (DDLI)	Director	DEITI, MOOC, SWAYAM, Digital Archives	
2.	Prof. Koshy Tharakan Directorate of International Cooperation and Exchange (DICE)	Director	Foreign Students, MoUs (Domestic and Foreign), SIP, etc.	
3.	Shri Leo Macedo Directorate of Students Welfare & Cultural Affairs (DSW&CA)	Director	Students activities	
4.	Prof. Vidhyadatta M. Shet Verenkar Directorate of Rashtriya Uchattar Shiksha Abhiyaan (D-RUSA)	Director	RUSA activities	
5.	Prof. Rajendra S. Gad Directorate of Unnat Bharat Abhiyaan (DUBA)	Director	Unnat Bharat Abhiyan activities	
6.	Prof. Rahul Tripathi Directorate of Foreign Students (DFS)	Director	Foreign Students activities	
7.	Prof. Jyoti D. Pawar Directorate of Research & Development and Resource Mobilisation (D-RDRM)	Director	Coordinating Research & Development programmes	
8.	Prof. Jyoti D. Pawar Directorate of All India Survey of Higher Education (D-AISHE)	Director	Collating Data on Higher Education	
9.	Dr. Rafael Fernandes Directorate for Equal Opportunities	Director	To implement Schemes for Minority students	
10.	Dr. Anthony A.A. Viegas Directorate of Extra Mural Studies and Extension Services (DEMS&ES)	Director	To design and implement non formal educational programmes	
11.	Prof. Sanjeev C. Ghadi Directorate of Student Placement and Alumni Relations (D-SPAR)	Director	Placement Activity and Alumni matters	
12.	Prof. Bernard F. Rodrigues Directorate of Internships, Incubation, and Industry Partnership (DI3P)	Director	Internships, Incubation and Industry Partnership	
13.	Prof. Savita S. Kerkar Directorate of Visiting Research Professors Programme (D-VRPP)	Director	VRPP selection and implementation	
14.	Directorate of Internal Quality Assurance (DIQA)	Director	To maintain academic data	

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LIST OF VISITING RESEARCH PROFESSOR PROGRAMME CHAIRS (VRPP)		
SR. NO.	NAME OF CHAIRS	NAME OF VISITING FACULTY
1	D.D. Kosambi Chair in Interdisciplinary Studies	Prof. Romila Thapar
		Prof. Madhav Gadgil
		Prof. Sudhir Kakar
		Prof. Shahid Amin*
		Prof. Kumkum Roy*
		Prof. Dhruv Raina*
		Prof. Ishita Dube*
		Prof. Saurabh Dube*
		Prof. Peter D'Souza*
		Prof. P.J. Cheriyan#
2	Dayanand Bandodkar Chair in Political Economy	Prof. Amit Bhaduri
		Prof. Ashok Chandra
		Prof. Satish Deshpande*
		Prof. Prabhat Patnaik*
		Prof. Rammanohar Reddy*
3	Kavivarya Bakibaab Borkar Chair in Comparative Literature	Prof. Ashok Vajpayi
		Prof. Nirmala Jain
		Shri Jeet Thayil
		Prof. Githa Hariharan*
		Prof. Vrinda Nabar*
		Shri Uday Bhembre*
		Prof. Kiran Budkuley*
		Prof. Edwin Thamboo#
		Prof. Anvita Abbi#
		Prof. Ganesh Devi#
4	Mario Miranda Chair in Art and Fine Art	Prof. Orijit Sen*
		Prof. Jyotindra Jain
		Prof. Sheba Chachi
		Prof. Vidya Dehejia *
		Prof. Raman Shivakumar*
		Dr. Subodh Kerkar*
		Shri. Alexyz Fernandes#
5	Anthony Gonsalves Chair in Western Music	Prof. Santiago Girelli*
		Prof. Mark Troop*
		Ms. Sonia Shirsat#
		Ms. Patricia Rozario#
6	Nana Shirgaokar Chair in Indian Music	Smt. Shubha Mudgal
		Shri Bahhauddin Dagar
		Smt. Bombay Jayashri*
		Smt. Vidya Shah*
		Smt. Vidya Rao#
		Shri Ramesh Sukhthankar#
7	Sant Sohrobanath Ambiye Chair	Prof. Bhalchandra V. Nemade
		Prof. Somnath Komarpant
		Shri Milind Wakankar #

		Smt. Sonali Kulkarni-Joshi #
8	Joaquim Heliodoro da Cunha Rivara Chair in Indo-Portuguese Studies (Funded by Camoes)	Prof. Susana Sardo*
		Prof. Amelia Polonia*
		Prof. Walter Rossa Ferreira da Silva*
		Prof. Angela Barreto Xavier*
		Prof. Hugo Canelas Cardoso*
9	Dalai Lama Chair in Nalanda Studies (funded by Dalai Lama)	Ven Khenpo Tashi Tsering#
*- Currently Active Professors. # - Names Approved but order has not yet issued.		

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P R E F A C E

Goa University was established under the Goa University Act of 1984 (Act No. 7 of 1984) and commenced operations on 1st June 1985. But well before formation of Goa University, University of Mumbai established a Centre of Post-Graduate Instruction and Research (CPIR) in Panaji which offered affiliation to the first colleges that were instituted in Goa in June 1962. Since 1985, the CPIR has been merged into newly formed Goa University. Ever since its inception in 1985, Goa University has had an impeccable record of catering to the educational needs and solving the socio economical problems of the region. The University plays a vital role in developing, enhancing, and improving the quality of human resources to meet the challenges of regional, national and global socio-economic changes. The main objectives of the University are to achieve excellence in teaching and research and to create better career opportunities for the students of Goa and neighbouring states and to contribute to the national and regional development.

The University is relentless in its efforts in maintaining standards in teaching and research, ensuring proper character building and development among the students, encouraging community developmental programmes and nurturing leadership in young men and women. More importantly the University has been playing a vital role in empowering the students particularly those coming from the disadvantaged and underprivileged segments of Goan society through the dissemination of various educational programmes.

Goa University has always subjected itself to continuous self-evaluation for maintaining standards and to reach set targets. Further, to assure quality in Higher Education the University has gone through the process of assessment and accreditation by National Assessment and Accreditation Council (NAAC) in April 2014. The Peer Committee has analysed the strengths and weaknesses of the Institution and has assessed the University with 'A' grade and crossed an important milestone in its history. Recently, the University has been ranked, at 81st position among all Higher Educational Institutions, by the MHRD under National Institute of Ranking Framework (NIRF) and Goa University also ranked between 26th to 50th by the MHRD under Atal Ranking of Institutions on Innovation Achievements (ARIIA) for the year 2020. This has brought in more visibility to Goa University on the academic map of India. Further, it also highlights our sincere efforts in strengthening the academic culture in the State of Goa.

This Prospectus contains a synopsis of all academic programmes offered by the University at its campus, brief profile of the Departments, as well as other relevant information that will provide the students with an overview of the academic ethos at the University. Though, care has been taken to provide information as per existing rules, the same is subject to changes with revision of the University's Ordinances/Rules from time to time.

EDITORIAL COMMITTEE



Prof. Vishnu Murty Matta



Prof. Nagendra Rao



Prof. Rafael A. Fernandes



Prof. Vidhyadatta M. Shet Verenkar



Dr. Joanna Pereira Coelho



Dr. P. Sriram



Shri Ashwin V. Lawande



Shri Chandrakant S. Shirur

ACADEMIC CALENDAR 2020-2021

The arrangement for Academic Terms for M.A./ M.Sc./ M.Com/ MBA/ IMBA/ M.C.A./ IMSC/ B.L.I.Sc./M.L.I.Sc. (ON CAMPUS) for the academic year 2020-21 shall be as follows:

Item	Duration	No. of Days
• Reopening	17/08/2020	
• Term -I	17/08/2020 to 06/01/2021	
• Ganesh Chaturthi Break	24/08/2020 to 26/08/2020	03 days
• Teaching begins	01/09/2020	
• Diwali Break	14/11/2020 to 15/11/2020	02 days
• Teaching ends	21/12/2020	90 days
• Preparatory Break for students	22/12/2020 to 24/12/2020	03 days
• Christmas Break	25/12/2020 to 27/12/2020	03 days
• SEA- Sem. I / III and Repeat Exam and Assessment	28/12/2020 to 06/01/2020	11 days
• Term-II	07/01/2021 to 20/05/2021	
• Teaching begins	07/01/2021	
• Teaching ends	28/04/2021	90 days
• Preparatory Break for students	29/04/2021 to 01/05/2021	03 days
• SEA- Sem. II / IV and Repeat Exam. and Assessment	03/05/2021 to 17/05/2021	11 days
• Summer Vacation	21/05/2021 to 06/06/2021	17 days
• Reopening for AY 2021-22	07/06/2021 (Monday)	

Note: Classes will be held exclusively in online mode until further notice.

All breaks except the preparatory breaks shall be treated as Vacation for the Teachers.

Practical for Semester I, III & V shall be conducted at the end of the term.

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The arrangement for Academic Terms for M.A./ M.Sc./ M.Com/ MSW/ MTTM/M.P.Ed at affiliated colleges for the academic year 2020-21 shall be as follows:

Academic Calendar/Terms for the Academic year 2020 - 21											New Academic Year 2021-2022	New Academic Term 2021-2022
Sr. No.	Programme	SEMESTER/TERM			SEMESTER/TERM			VACATION/BREAK				
		Commencement	End	Commencement of Examinations	Commencement	End	Commencement of Examinations	Type of vacation/ break	From	To		
1	MA/M.Sc./M.Com / MTTM/ MSW/ M.P.Ed.	New Academic Year 2020-2021 commences on 03-08-2020									01-06-2021	25-06-2021
		01-09-2020	30-11-2020	04-12-2020 to 23-12-2020	04-01-2021	13-05-2021	03-05-2021 to 19-06-2021	Chaturthi Break	21-08-2020	27-08-2020		
		Teaching / Instructional Days: 01-09-2020 to 30-11-2020 (75 instructional days)		(17 working days) (To be conducted by Colleges)	Teaching / Instructional Days: 04-01-2021 to 28-04-2021 (92 days)			Winter Vacation	—	—		
								Christmas Break	24-12-2020	02-01-2021		
								Summer Vacation	14-05-2021	24-06-2021		

Note: *Practicals for Sem I, III shall be conducted at the end of the term.

*Classes will be held exclusively in online mode until further notice.

ELIGIBILITY CRITERIA FOR ADMISSION TO POST GRADUATE/ M.PHIL / PH.D PROGRAMMES

POST GRADUATE PROGRAMMES

1. The candidate must pass the Bachelor's examination in the relevant subject.
2. Admission is based on the merit list prepared on the basis of rank obtained in the Goa University Admissions Ranking Test (GU-ART) Test in relevant subject OR on the basis of relevant admission criteria.
3. Further details regarding the eligibility criteria (including interdisciplinary subjects) will be available on the University website.

M.Phil/ Ph.D PROGRAMMES

1. The candidate must pass the Master's examination in the relevant subject.
2. Admissions for M.Phil/ Ph.D programmes are held twice in a year.
3. Interviews will be conducted to allot seats to the JRF/M.Phil/NET/SET/GATE/GPAT candidates and thereafter for those who qualify the Goa University – Ph.D Entrance Test (GU-PET) to allot the residual seats.
4. Candidates who have qualified JRF/M.Phil/NET/SET/GATE/GPAT will be exempted only from the Entrance Test.
5. Further details regarding the eligibility criteria (including interdisciplinary subjects) will be available on the University website.

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IMPORTANT INFORMATION TO STUDENTS (Certificate Enquiries)

SR.NO.	TYPES OF CERTIFICATES	CONTACT DIVISION/DEPARTMENT
1.	Eligibility Certificate	Academic-Colleges 8669609019, arcolg@unigoa.ac.in
2.	Migration Certificate	Academic-Colleges 8669609019, arcolg@unigoa.ac.in
3.	Transference Certificate	Respective Departments/Schools
4.	Duplicate Marksheet	Examination-PG 8669609033, arexampg@unigoa.ac.in
5.	Provisional Degree Certificate	Examination-PG 8669609033, arexampg@unigoa.ac.in
6.	Convocation Degree Certificate	Examination-UG Section 8669609009, convo.query@unigoa.ac.in
7.	No Due Certificate	Library 8669609012, librarian@unigoa.ac.in
8.	Bonafide Certificate	Academic-PG(through Department/ Schools) 8669609021/065, arpg@unigoa.ac.in
9.	Revaluation	
	a. Under Graduate programmes	Examination-UG 8669609035, arexamug@unigoa.ac.in
	b. Post Graduate programmes	Examination-PG 8669609033, arexampg@unigoa.ac.in
	c. Professional programmes	Examination-PROFESSIONAL 8669609034, arexamprof@unigoa.ac.in

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NUMBER OF SEATS AVAILABLE IN EACH PROGRAMME INCLUDING RESERVATIONS (ON CAMPUS)

S. No.	Programmes*	Total Seats available	SC	ST	OBC	DA	Other Indian Universities	Wards of Ex-Servicemen	General/Unreserved Category	Economic Weaker Section (EWS)
Faculty of Languages and Literature										
a.	M.A. English	63	2	8	17	3	2	1	24	6
b.	M.A. French	19	1	3	5	1	2		5	2
c.	B.A. French	19	1	3	5	1	2		5	2
d.	M.A. Hindi	50	1	6	14	3	2	1	18	5
e.	M.A. Konkani	63	2	8	17	3	2	1	24	6
f.	M.A. Marathi	38	1	5	10	2	2		14	4
g.	M.A. Portuguese	19	1	3	5	1	2		5	2
h.	B.A. Portuguese	19	1	3	5	1	2		5	2
Faculty of Social Sciences										
a.	M.A. History	69	2	8	19	3	2	1	27	7
b.	M.A. Philosophy	19	1	3	5	1	2		5	2
c.	M.A. Political Science	38	1	5	10	2	2		14	4
d.	M.A. Sociology	25	1	3	6	1	2		9	3
e.	M.A. International Studies	19	1	3	5	1	2		5	2
f.	B.L.I.Sc – Bachelor of Library and Information Science (S.F.)	31	1	4	9	1	2		11	3
g.	M.L.I.Sc – Master of Library and Information Science (S.F.)	25	1	3	7	1	2		9	3
h.	M.A. Women's Studies	19	1	3	5	1	2		5	2
Faculty of Natural Sciences										
a.	M.Sc. Electronics	19	1	3	5	1	2		5	2
b.	M.Sc. Mathematics	38	1	5	10	2	2		14	4
c.	M.Sc. Physics	50	1	6	14	3	2	1	18	5
Faculty of Life Sciences & Environment										
a.	M.Sc. Botany	38	1	5	10	3	2		13	4
c.	M.Sc. Marine Biotechnology	30	As per Central Government rule				JNU National Admissions			
d.	M.Sc. Biotechnology	25	1	3	6	1			11	3
e.	M.Sc. Microbiology	25	1	3	6	1	2		9	3
f.	Zoology	38	1	5	10	3	2		13	4
g.	Post Graduate Diploma in Medical Laboratory Techniques (PGDMLT)	25	1	3	6	1	2		9	3
School of Chemical Sciences										
a.	M.Sc. Chemistry	100	2	12	27	5	2	1	41	10
b.	M.Sc. Biochemistry (S.F.)	25	1	3	6	1	2		9	3
Goa Business School										
a.	M.A. Economics	63	2	8	17	3	2	1	24	6
b.	M.Com	75	2	9	20	4	2	1	30	7
c.	M.B.A. (Financial Services) (S.F.)	75	2	9	20	4	2	1	30	7
d.	M.B.A.	75	2	9	20	3	1		33	7
e.	M.B.A. – Executive (S.F.)#	38	1	5	10	3	2		13	4
f.	Integrated M.B.A (U. G.) (S.F.)	38	1	5	10	3	2		13	4
g.	Master of Computer Applications (MCA)	75	2	9	20	2	2		33	7
School of Earth, Ocean & Atmospheric Sciences										
a.	M.Sc. Applied Geology	31	1	4	9	1	2		11	3
b.	M.Sc. Marine Science	31	1	4	9	1	2		11	3
c.	M.Sc. Marine Microbiology	25	1	3	6	1	2		9	3

*The University may decide to change the number of seats depending on demand and available infrastructure.

#Based on group discussion and/or interview.

S.F.=Self Financed Programme

RESERVATION UNDER VARIOUS CATEGORIES

As per the revised guidelines of the UGC, reservation of seats in case of Scheduled Caste (SC) and Scheduled Tribe (ST) candidates for admission to various programmes of study in the University shall be on the basis of the reservation policy of the State Government.

2% of seats in each of the Post Graduate programmes of study, subject to a **minimum of one seat**, shall be reserved for candidates belonging to **SC** category.

12% of seats in each of the Post Graduate programmes of study, subject to a **minimum of one seat**, shall be reserved for candidates belonging to **ST** category. Candidates applying for admission under these categories shall be required to submit a certificate to that effect issued by the officer of the rank of the Deputy Collector or above.

27% of total seats, subject to a **minimum of two seats**, for admission to various programmes of study, shall be reserved for candidates belonging to other backward classes (**OBC**) of the State of Goa as per the directives of the State Government. Candidates applying under this category shall be required to submit a certificate issued to that effect by the officer of the rank of the Mamlatdar or above.

5% of total seats, subject to minimum one seat for admission to various programmes of study shall be reserved for **differently abled** candidates (as per State Government directives).

1% of total seats shall be reserved for Children of Ex- servicemen.

10% of seats, subject to a **maximum of two seats and a minimum of one seat** in each programme of study, except the MCA & MBA programmes of study, shall be made available for candidates of **other Universities**. Entrance Test shall be conducted by all Departments for admission to candidates from other Universities. Only those candidates who secure 40% or more marks in the Entrance Test shall be eligible for admission under this category.

Seats falling vacant under any of the above reserved categories shall be filled from the general category candidates with the approval of the Vice Chancellor.

15% of seats, over and above the allotted number of seats, shall be reserved as supernumerary seats for the overseas candidates, who are eligible for admission and are recommended by Govt. of India under scholarship from Govt. of India or under exchange programme (ICCR Programme). These seats shall be filled in accordance with the UGC guidelines. Out of the 15% supernumerary seats, one seat in each program will be reserved for Kashmiri Migrants (KM) as per directives of the UGC.

10% of total seats shall be reserved for Economically Weaker Section of General Category (EWS) as per the directives of the State Government. Candidates applying under this category shall be required to submit a certificate issued to that effect by the officer of the rank of the Mamlatdar or any other authorized Officer as notified by the Government of Goa.

Notes:

- i. **Percentage of seats mentioned above is subject to change depending upon directives of the State Government.**
- ii. **For National Admission programmes the reservation percentage is as per Central Government Rules.**

Admission to candidates with more than one attempt

Candidates passing the qualifying examination in more than one attempt will be deemed eligible for admission, but for the purpose of equating their performance with that of candidates passing the examination at first attempt, the percentage of marks (aggregate) obtained by them shall be deemed to be less by 3% for every subsequent attempt than the actual percentage of marks obtained by them at the qualifying examination.

Note: For the attention of candidates from other Universities seeking admission to the above programmes:

- Candidates should have eligibility to study Post-Graduate programmes such as M.A. / M.Sc. / M.Com MCA / MBA in their respective branches.
- Candidates should fulfill minimum percentage of marks and pass grade as above in their qualifying examinations.
 - Candidates fulfilling the above two conditions will have to answer an **Entrance Test** at Goa University.

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REFUND OF TUITION FEES

- a) If a student chooses to withdraw from the programme of study in which he/she is enrolled, the following five-tier system shall be followed for the refund of fees remitted by him/her.

Sr. No.	Point of time when notice of withdrawal of admission is served to the College/University	% of refund of Aggregate fees*
1.	15 days or more before the formally notified last date of admission.	100%
2.	Less than 15 days before the formally notified last date of admission.	90%
3.	15 days or less after the formally notified last date of admission.	80%
4.	More than 15 days but less than 30 days after formally notified last date of admission.	50%
5.	More than 30 days after formally notified last date of admission.	00%

* (Inclusive of tuition fees and non-tuition fees but exclusive of Caution Deposit and Security Deposit)

- b) Caution Deposit & Security Deposit shall be refunded in full.
- c) In case of (1) in the table above, 5% of the fees paid by the student, subject to a maximum of Rs. 5000/- shall be deducted as processing charges from the refundable amount.
- d) Fees shall be refunded to an eligible student within fifteen days from the date of receiving a written application from him/her in this regard.
- e) The fees of students who have already been admitted to a programme of the University and have paid the fees and are subsequently admitted to another programme shall have to pay the fees for the final admission and claim the refund of fees paid earlier, in which case no administrative charges shall be deducted from fees paid earlier by the student.

However, if the fees payable for the both the programmes are the same, the fees paid earlier shall be transferred to the final programme where admission is sought.

- f) All other cases of the refund of the fees will be decided on case to case basis on its merit.

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FACULTY OF LANGUAGES & LITERATURE

Dean: **Caldeira, Nina**



Faculty of Languages & Literature consists of six Departments

1. English
2. French & Francophone Studies
3. Hindi
4. Konkani
5. Marathi
6. Portuguese & Lusophone Studies

1. DEPARTMENT OF ENGLISH

a) Programmes offered and Number of Student Intake:

Programme	Programmes Offered	Intake	Tuition Fees (Rs.)
Established: 1965(CPIR) Code: EG	M.A. English	63	6205.00
	M.Phil.		12390.00
	Ph.D.		12155.00

b) Introduction about the Department:

The Department offers postgraduate programme in English and provides opportunities for doctoral research leading to Ph.D. in English. Literature is a major thrust area of the Department with emphasis on British, Indian, American and other literatures. Comparative Literature, Translation Studies and Cultural Studies are allied areas of study for the Department.

c) List of Faculty & their Specialisations:

Head of the Department: Fernandes, A. Rafael.

Professors

Bhat, K. Sripad. Ph. D. (Mangalore University)
Literary Theory, Critical Theory & Cultural Studies



Caldeira, Nina. Ph. D. (Goa University)
Goa Cultural Studies, Post-Colonial Literature, Linguistics and American Literature



Fernandes, A. Rafael. Ph. D. (Goa University), CELTA (Cambridge University)
Novel, Linguistics, Commonwealth Literature, Tiatr, and Language Laboratory.



Assistant Professors

Chaubey, Anjali. Ph.D. (JNU)

Indian English Theatre, Diaspora Studies, Gender Studies, Disability Studies.



Naik, Poorwa. M.A. (Goa University)

English Poetry, Translation Studies, Cultural Studies, Queer Literature.



Oliveira, Nafisa. M.A., LL.M. (Goa University)

Dystopian Literature, Cultural Studies, Law and Literature, Human Rights, Translation (Praxis) & Literature In English Translation.



d) Structure of programmes:

M.A. English Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

COURSE CODE	COURSE TITLE (CORE COURSES)	CREDITS
EGC 101	Linguistics	4
EGC 102	English Poetry: from Chaucer onwards	4
EGC 103	English Novel	4
EGC 104	English Drama	4
EGC 106	Novel as a Major Form	4
EGC 107	Literary Criticism	4
EGC 108	Shakespeare: Plays	4
EGC 109	American Literature	4
EGC 110	World Classics	4
EGC 111	Major Genre: Comedy	4
EGC 112	Major Genre: Epic	4
EGC 113	Major Genre: Tragedy	4
	OPTIONAL COURSES	
EGO 101	Stylistics	4
EGO 102	Study of a Major Poet: P. B. Shelley or T. S. Eliot	4
EGO 103	Study of a Major Novelist: Joseph Conrad	4
EGO 104	Study of a Major Playwright: Harold Pinter	4
EGO 105	Indian Writing in Translation	4
EGO 106	Readings in Literary Criticism	4
EGO 107	Creative Writing	4
EGO 108	Commonwealth Literature	4
EGO 109	Studies in Colonialism, Modernity and Indigenous Discourse	4
EGO 110	Latin American Literature	4
EGO 111	Cultural Studies in the Postcolonial World	4
EGO 112	Readings in Contemporary Theory	4
EGO 113	A Reading in Postcolonial Theory and Literature	4
EGO 114	Cultural Studies: Theory and Practice	4
EGO 115	Goa: Cultural Perspectives	4
EGO 116	Contemporary Indian English Fiction	4

EGO 117	Regional Sensibilities in Indian Writing	4
EGO 118	Cross-Currents in Modern European Drama	4
EGO 119	Canadian Cultural Studies	4
EGO 120	Translation Studies: Theory and Praxis	4
EGO 121	Approaches to Journalism Through Language and Literature	4
EGO 122	D. H. Lawrence	4
EGO 123	Multimedia in Cultural Literacies: A Study of Australia	4
EGO 124	Critiquing Goan Writing in English Translation	4
EGO 125	Compressing the World: Reading and Writing Short Fiction	1
EGO 126	Gender of Literatures and Literatures of Gender	1
EGO 127	Reading and Writing Conflict	1
EGO 128	Imagining Women: Representations in Literature and Cinema	1
EGO 129	The Anxieties of Orientalism: India and Diaspora	1
EGO 130	Writing Lives: An Interactive Literary Series	1
EGO 131	Book Publishing	2
EGO 132	The Art and Craft of Editing	2
EGO 133	Faces of Theatre	2
EGO 134	The Graphic Novel	4
EGO 135	Roads not taken: Decoding Gender, Understanding Feminism	1
EGO 136	Perform and Transform	2
EGO 137	Indian Writing in English	4
EGO 201	Traditions/Conventions, Change and Conflict	4

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2. DEPARTMENT OF FRENCH & FRANCOPHONE STUDIES

a) Programmes offered and Number of Student Intake:

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 2018 Code: FF	B.A. Honours (French)	19	1605.00
Established: 1965 (CPIR) Code: FR	M.A. French	19	6205.00
	Ph.D.		12155.00
	Certificate/Diploma/ Advance Diploma		4200.00

b) Introduction about the Department:

Since our inception in 1965, we have a long tradition of teaching and researching in the domain of French and Francophone studies. The Department of French and Francophone Studies focuses on the extensive and intensive teaching and learning of language, literature, culture and civilization of France and Francophone nations through a mosaic of workshops, seminars and cultural activities. It has been extremely popular and an emerging centre of excellence in the field of French studies in Goa. At present, the Department offers Bachelor of Arts (Hons.) (three years), Master of Arts (two years), PhD. And Certificate/Diploma/Advanced Diploma in French programmes. The Department has incorporated latest methodologies and approaches of teaching and learning French which efficiently enable a learner to meet professional and personal challenges in diverse scenarios. Active in academic discipline, the Department organizes various lectures, workshops and seminars where the students get opportunities to learn and interact with French native speakers and experts. The Department also encourages learning of language and cultures through numerous extra-curricular activities.

c) Placement Sources for the Students:

Teaching positions in schools, colleges and language institutes. Translator and French language experts in translation firms, international companies and organisations. Hotels, Travel and Tourism agencies. Interpretation assignments.

d) Any other information:

The Department of French and Francophone Studies offers programmes that are innovative and utility oriented to prepare students for the job market in one or more fields. The B.A. and M.A. programmes provide a comprehensive overview of the literatures, cultures, and languages of the French and Francophone world, and prepare students for career tracks that require advanced linguistic and cultural knowledge.

The Department has collaborations for promoting research and teaching with national and international organisations and has signed MOUs with the French Embassy and Science Po, Lyon.

e) List of Faculty & their Specialisations:

Head of the Department: Dean, Faculty of Languages & Literature

Professor

Wagle, Anuradha. Ph.D (JNU) (on lien)

Translation Studies/Linguistics/ Teaching Methodology



Assistant Professors

Silveira, Irene. Ph.D (Goa University)

French and Francophone Literature/ Culture Studies/ Teaching Methodology/ Functional French.



Gomes, Natasha. M.A. (Goa University)

ICT/ Culture Studies/Teaching Methodology/ Functional French.



Dharwadkar, Kshama. M.A. (Goa University)

Translation/ Linguistics/ Phonetics/ Mythology



f) Structure of different programmes:

M.A. French Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

COURSE CODES	COURSE TITLES (CORE COURSES)	CREDITS
FRC 101	Language Skills	4
FRC 102	Theory and Practice of Translation	4
FRC 103	Textual analysis	4
FRC 104	Study of French Novel	4
FRC 105	Francophone Studies	4
FRC 106	French Culture and Civilization	4
FRC 107	General Linguistics	4
FRC 108	Phonetics, Morphology, Syntax	4
	COURSE TITLES (OPTIONAL COURSES)	
FRO 101	A Study of French Romanticism	4
FRO 102	Modern French/Francophone Literature Literary Criticism	4
FRO 103	Women's Writings	4
FRO 104	Semantics and Lexicology	4
FRO 105	Foreign Language Acquisition Studies	4
FRO 106	Research Methodology	4
FRO 107	Comparative Literature	4
FRO 108	Colonial Encounter	4
FRO 109	Literary Movements	4
FRO 110	Intellectual and Social background of one selected author's epoch	4
FRO 111	Lexicography and Technical Terminology	4
FRO 112	Multimedia for Foreign Language Acquisition	4
FRO 113	Scientific and Technical Translation	4
FRO 114	Literary translation	4

FRO 115	Consecutive Interpretation	4
FRO 116	French Language Level 1	4
FRO 117	French Language Level 2	4
FRO 118	French Language Level 3	4
FRO 119	French for Tourism and Hospitality	4
FRO 120	Scientific and Technical French	4
FRO 121	French for Business	4
FRO 122	Indian Literature in French Translation	4
FRO 123	Translation/Terminology Project <u>OR</u> Literature/Culture Studies Project	2
FRO 124	Film Appreciation	2
FRO 125	History of Art	2
FRO 126	Theatre and Oral expression	2
FRO 127	Literature through Cinema	2
FRO 128	History of French Language	2
FRO 129	Creative Writing and Composition	2
FRO 130	Corrective Phonetics	2
FRO 132	Representations of French History in Visual Arts and Literature	4
FRO 133	Mythology in Literature and Popular Culture	4
FRO DIST	Dissertation	8

B.A. French Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

FIRST YEAR

COURSE CODES	COURSE TITLES	CREDITS
FRCC 01	French Phonetics and Oral Expression 1	4
FRCC 02	French Phonetics and Oral Expression 2	4
FRGE 01	Basic French Language 1	4
FRGE 02	Basic French Language 2	4
GE	France and its Regions	4
GE	Introduction to Francophone Cultures and Civilization	4

SECOND YEAR

COURSE CODES	COURSE TITLES	CREDITS
FRCC 03	French through creative activities	4
FRCC 04	French for Hotel and Tourism	4
FRGE 03	Intermediate French Language 1	4
FRGE 04	Intermediate French Language 1	4

THIRD YEAR

COURSE CODES	COURSE TITLES	CREDITS
DSC	Advanced French Grammar and Composition 1	4
DSC	Advanced French Grammar and Composition 2	4
DSC	Introduction to Translation Studies	4
DSC	Readings in French Literature – 17 th and 18 th Centuries	4
DSC	Readings in French Literature – 19 th Century	4
DSC	Stylistics and Rhetorics	4

DSE	Study of Cultural Objects	4
DSE	Business Communication in French	4
DSE	Contemporary France – Issues and Debates	4
DSE	French through Francophone texts	4
DSE	Study of French Cinema	4
DSP	Project	4

Certificate and Diploma Programmes in French

1. Certificate of Proficiency-1 (Level A1)
2. Certificate of Proficiency A2 (Level A2)
3. Diploma of Proficiency (Level B1)
4. Advanced Diploma of Proficiency-(Level B2)
5. Advanced Diploma in Translation

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3. DEPARTMENT OF HINDI

a) Programmes offered & number of student Intake:

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1965 (CPIR) Code: HN	M.A. Hindi	50	6205.00
	M. Phil.		12390.00
	Ph. D.		12155.00

b) Introduction about the Department:

The Department offers M.A., M.Phil and Ph.D. programmes in Hindi. It lays emphasis on Indian Literature, Hindi, Marathi & Konkani, Medieval & Modern Poetry, Novels, Fiction, Criticism, Journalism & Mass Media, Translation. The Department also offers opportunity to conduct research in above areas.

c) Major Facilities Available in the Department:

Classes with projector, meeting room equipped with mini library containing various books, magazines and Ph.D thesis pertaining to subject matter.

d) Placement Sources for the Students:

- Develop ability to work anywhere in India, with a common medium of communication in our National Language Hindi.
- Enable students to use employment opportunity in other countries where Hindi is used as an official Language as well as second Language
- Develop Translation skills from Hindi to English, Marathi, Konkani and vice versa
- Learn creative writing skills in Hindi using different forms of literature such as poetry, fiction, stories etc.
- Develop a command over the Hindi language to use it as a speaker or even be a good actor in the dramas.

e) Any other Information:

Our students are actively participating in various events & competitions organised by various institutions across Goa and coming with the flying colours by winning prizes for the Department and University.

f) List of Faculty & their Specialisations:

Head of the Department: Dean, Faculty of Languages & Literature

Professor

Mandrekar, Vrushali S. Ph.D. (Goa University) (on leave)
Indian Literature, Comparative Literature and Translation



Assistant Professors

Tiwari, Bipin B. Ph.D. (Delhi University)
Hindi Kahani and Criticism



Govekar, Sweta P. M.A (Goa University)
Novel, Mass Media & Journalism



Varak, Deepak P. M.A (Goa University)
Drama & Theater



Gaude, Manisha C. M.A (Goa University)
Modern Poetry



Sinai-Bhangui Aditya D. M.A (Goa University)
Linguistics, Hindi Grammar, Translation, Indian Poetics, Media & Journalism



Verlekar Mamata, M.A (Goa University)
Hindi Poetry, Drama, Literary Criticism



g) Structure of Programmes:

M.A. Hindi Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE CODES	COURSE TITLES (CORE COURSES)	CREDITS
HNC 201	Linguistics	04
HNC 202	Medieval Poetry : Practical Criticism	04

SEMESTER II

HNC 203	Modern Poetry, Practical Criticism	04
HNC 204	Hindi Language, Script & Grammar	04

SEMESTER III

HNC 205	Indian Literature	04
HNC 206	Critics & Criticism	04

SEMESTER IV

HNC 207	Drama & Theatre	04
HNC 208	Another Form of Modern Prose	04

OPTIONAL COURSES

HNO 201	History of Hindi Literature : Aadikal , Bhaktikal & Ritikal	04
HNO 202	History of Hindi Literature, Aadhunika Kal	04
HNO 203	Indian Poetics	04
HNO 204	Western Poetics	04
HNO 205	Contemporary Hindi Poetry: Practical criticism	04
HNO 206	Hindi Story	04
HNO 207	Hindi Novel	04

HNO 208	Study of special - Author- Amrutlal Nagar	04
HNO 209	Translation	04
HNO 210	Media & Journalism	04
HNO 211	Folk Literature	04
HNO 212	Literature : Thought & Philosophy	04
HNO 213	Rachanatmak Lekhan	04
HNO 214	Uttar Aadhunik Vimarsh	04
HNO 215	Hindi Autobiography Literature	02
HNO 216	Hindi Memoir Literature	02
HNO 217	Language & Literature: Social & Cultural Survey	02
HNO 218	Hindi Pradeshho mein Bhraman	02

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4. DEPARTMENT OF KONKANI

a) Programmes offered and number of student intake:

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1987	M.A. Konkani	63	6205.00
Code: KK	Ph.D.		12155.00

b) Introduction about the Programmes:

The Department of Konkani, the only one of its kind in the country, offers M.A. in Konkani language and literature and has research programmes leading to Ph.D. in any area pertaining to Konkani Language and Literature. It also has various projects from Sahitya Academi, NCERT, UGC, CIIL and other bodies taken up by individual staff members who also have expertise in several Indian and foreign languages and translation. Along with the Department of Computer Science and Technology, the Department of Konkani is actively involved in interdisciplinary research pertaining to Natural Language Processing (NLP).

c) List of Faculty & their Specialisations:

Head of the Department: Parienkar, Prakash.

Associate Professors

Parienkar, Prakash. Ph.D. (Goa University)

Sociological Study of Literature, Special Study of Konkani Novels, Research Methodology, Old Konkani Language & Literature.



Chopdekar, Hanumant C. Ph.D. (Goa University)

Literary Criticism, Konkani Folklore, Language Movement, Indian and Western Poetics, Linguistics, Translation



Assistant Professors

Naik, Krupali. M.A (Goa University)

Concept of Feminism in Literature, Study of Selected Indian Literature, Devanagiri Typing & Proof reading skills.



Gadkar, Soniya S. M.A. (Goa University)

Folklore, Literary Criticism, Humour Literature



Gaonkar, Sanika A. M.A. (Goa University)

Special study of Konkani Novels, Konkani Folklore, Indian and Western Poetics



Naik, Naresh C. M.A. (Goa University)

Old Konkani Literature, Creative Literature, Folklore, Literary Criticism



d) Structure of Programmes:

M.A. Konkani Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

COURSE CODES	COURSE TITLES (CORE COURSES)	CREDITS
KKC 301	Study of Old Konkani Literature(16 th -17 th Century)	4
KKO 302	Research Methodology	4
KKC 303	Linguistic Study of Konkani	4
KKC 304	Study of Selected Writings of Shennoi Goembab	4
KKC 305	Study of Indian Literature	4
KKC 306	Sociological Study of Literature	4
KKC 307	Selected Ideologies in Indian and Western Poetics	4
KKC 308	Trends in Modern Konkani Poetry	4
	COURSE TITLES (OPTIONAL COURSES)	
KKC 401	Special Study of Konkani Novels	4
KKO 402	Konkani Language Movement	4
KKO 403	Concept of Feminism in Literature	4
KKO 404	Short Film Production	4
KKO 405	Translation: Theory and Practice	4
KKO 406	Field Linguistics and Konkani Language Documentations	4
KKO 407	Critics & Criticism	4
KKO 408	Study of Selected Goan Folk Dances	2
KKO 409	Study of Selected Konkani Folk Dramas	2
KKO 410	Devnagari Typing and Proof Reading Skills	2
KKO 411	Creative Writing	2
KKO 412	Study of Commercial Tiatr	2
KKO 413	Graminn Literature	2
KKO 414	Environmental thought in Konkani Literature	2
KOO 415	Study of Selected Plays of Pundalik Naik	2
KKO 416	Study of Selected Essays of Ravindra Kelekar	2
KOO 417	Study of Selected Stories of Damodar Mauzo	2
KKO 418	Media Study	2
KKO 419	Study of Mahableshwar Sail's Selected Novels	2
KKO 420	Essential of Konkani Grammar and Orthography	2
KKD 421	Dissertation	8

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5. DEPARTMENT OF MARATHI

a) Programmes offered and Number of Student Intake:

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1970 (CPIR)	M.A. Marathi	30	6205.00
Code: MR	M.Phil		12390.00
	Ph.D.		12155.00

b) Introduction about the Department:

The thrust areas of the Department include Grammar and Linguistics, Theory of Literature and Translation Studies, Medieval Literature, Christian Marathi Tradition of the 17th Century in Goa, Modern Forms of Literature, Marathi Literature in Goa, Dalit, Rural & Folk Literature, so also Science Fiction in Marathi.

c) List of Faculty & their Specialisations:

Head of the Department: Umraskar, Sunita S.

Associate Professor

Umraskar, Sunita S. Ph.D. (Goa University)

Medieval Marathi Literature, Modern form of Literature and Linguistics.



Assistant Professors:

Madgaonkar, Vinay. M.A. (Goa University)

Folk Literature and Indian Literature.



Vasta, Purva P. M.A. (Goa University)

Translation Studies, Comparative Literature, Modern Marathi Literature.



Ghaisas, Chinmay M. M.A. (University of Pune)

Translation Studies & Comparative Literature, Creative Writing, Professional Marathi & Grammar, Journalism & Mass Media, Marathi Drama



Bapat, Vinayak L. M.A. (Goa University)

Literary Criticism, Ancient Marathi Literature, Marathi Novels.



d) Structure of the Programmes:

M.A. Marathi Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE CODE	COURSE TITLE	CREDITS
MRC 201	A review of Marathi grammar	4
MRC 202	History of Marathi literature (1818-1947)	4

Total No. of Credits: 16 CORE: 8 OPTIONAL: 8

SEMESTER II

COURSE CODE	COURSE TITLES	CREDITS
MRC 203	Linguistics and Marathi language	4
MRC 204	History and Marathi literature (1947-2015)_	4

Total No. of Credits: 16 CORE: 8 OPTIONAL: 8

SEMESTER III

COURSE CODE	COURSE TITLES	CREDITS
MRC 205	Theory of literature	4
MRC 206	A form of literature (autobiographies)	4

Total No. of Credits: 16 CORE: 8 OPTIONAL: 8

SEMESTER IV

COURSE CODE	COURSE TITLES	CREDITS
MRC 207	A Study Of Two Marathi Text Representing The Medieval Period	4
MRC 208	A Study Of Modern Marathi Author	4

Total No. of Credits: 16 CORE: 8 OPTIONAL: 8

COURSE TITLES (OPTIONAL COURSES)

COURSE CODE	COURSE TITLES	CREDITS
MRO 201	A study of folk literature	4
MRO 202	Goan Marathi literature	4
MRO 203	Translation: theory and literature	4
MRO 204	Marathi prose and poetry :post 1960 period	4
MRO 205	A study of 17th century Goan Christian Marathi literature	4
MRO 206	Sociological study of literature	4
MRO 207	Research methodologies and techniques	4
MRO 208	Science fiction in Marathi	4
MRO 209	Autobiographies of women in Marathi	4
MRO 210	A study of Dalit literature	4
MRO 211	Professional Marathi	4
MRO 212	Marathi literature : transform and trans media	4
MRO 213	World literature in Marathi translation	4
MRO 214	Indian literature in Marathi literature	4
MRO 215	Ancient Indian literature in Marathi translation	4
MRO 216	Mythological literature in Marathi	4
MRO 217	Historical literature in Marathi	4
MRO 218	Applied criticism	4
MRO 219	Creative writing	4
MRO 220	Ideological literature in Marathi	4
MRO 221	Marathi comedy literature	4
MRO 222	Moaddi :linguistic and literary tradition	4
MRO 223	Periodicals in Marathi 1832-1969	4
MRO 224	Dissertation (optional) against any two optional papers	8

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6. DEPARTMENT OF PORTUGUESE & LUSOPHONE STUDIES

a) Programmes offered & number of student intake:

Programme	Programmes Offered	Intake	TuitionFee (Rs.)
Established: 2019 Code: PR	B.A. Portuguese	19	1605.00
Established: 1987 Code: PR	M.A. Portuguese	19	6205.00
	M. Phil.		12390.00
Established: 2020	Ph.D		12155.00
	Advanced Diploma		4200.00
	Diploma of Proficiency		4200.00
	Certificate of Proficiency I		4200.00
	Certificate of Proficiency II		4200.00

b) Introduction about the Department:

The Department of Portuguese and Lusophone Studies, the only one of its kind in the country, offers a Postgraduate Masters Programme in Portuguese Literature and Culture, and an M.Phil in Portuguese. A Ph.D. programme on Portuguese and Lusophone Studies will commence this academic year (2020-21).

Indo-Portuguese Studies is a major thrust area of the Department. Other allied areas of study with a focus on student training and employability include Translation Studies, Teaching Portuguese as a foreign Language and Research.

The Bachelors Programme in Portuguese aims at achieving better Linguistic Competencies at the end of which students may pursue employment or a Masters degree in Portuguese.

The Portuguese Language Optional Courses, Certificate and Diploma Programmes of the Department of Portuguese and Lusophone Studies that follow the Common European Framework (CEF) are job oriented so that students may obtain fluency in Portuguese to meet the growing demand of the Corporate World.

c) Major Facilities available in the Department:

ICT enabled classrooms and a Department Library for additional reading.

d) Placement Sources for the Students:

Educational Institutions: HEIs, Colleges and Schools
Multi-National Companies
Diplomatic Missions

e) Any other Information:

- Mobility Exchange Program with the University of Porto (Erasmus Plus), Portugal for a duration of 1 semester for students registered for UG\PG\Ph.D. and 1 week for Faculty.
- M.O.U. with University of Aveiro, University of Porto and Camões, I.P.
- Summer\ Annual\ Research Scholarships awarded by Camões, I.P. and Fundação Oriente to which our students can apply.
- The Department organizes Workshops and training programs for the teachers of Portuguese in Goa in collaboration with Camões-CLP.
- The courses conducted by the Visiting Professors of J.H. da Cunha Rivara Chair are organized by the Department of Portuguese.

f) List of Faculty & their Specialisations:

Head of the Department: Dean, Faculty of Languages & Literature

In-Charge: Pedro, Manuel Sobral Pombo

Assistant Professors:

Alberto, Loraine Ethel. M.A. (Goa University)

Portuguese Literature & Culture, Portuguese & Indo-Portuguese Literature.



Cotta Franz Schubert Agnelo da Miranda. M.A. (Goa University)

Portuguese Literature & Culture, Portuguese History & Culture/ Brazilian Literature/Translation Studies.



Fernandes, Scarlet A. M.A. in Portuguese (Goa University)

Portuguese Language & Linguistics; Creative Writing.



Usgaonkar, Dhruv S. M.A. in Portuguese (Goa University) (on study leave)

Portuguese Literature and Culture.



Visiting Lecturer (Camões)(under Indo-Portuguese Cultural Exchange Programme)

Da Silva, Delfim C. M.A. in Portuguese and French Studies (University of Aveiro) and M.Phil. in Interdisciplinary Portuguese Studies (Open University of Lisbon). Teaching Portuguese as a Foreign Language.



Visiting Lecturer Tenure Contract

Pedro, Manuel Sobral Pombo Ph.D. in Anthropology (ISCTE-IUL, Portugal)

Portuguese History, Art, Architecture and Cinema.



g) Structure of Different Programmes:

M.A. Portuguese Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE CODE	COURSE TITTLE	CREDITS
PRC 204 (CORE)	Introduction to Portuguese Linguistics	4
PRC 202 (CORE)	History of Portuguese Literature I	4
PRO 202 (OPTIONAL)	Portuguese Cinema*	4
PRO 203 (OPTIONAL)	Portuguese Art*	4
PRC 209 (OPTIONAL)	History of Portugal	4
PRO 213 (OPTIONAL)	History of Portuguese Language	4
PRO 221 (OPTIONAL)	Bridge Course	2
PRO 217 (OPTIONAL)	Portuguese Language Level I A1.1**	4

Total No. of Credits: 20; Core: 08; Optional: 12

SEMESTER II

COURSE CODE	COURSE TITTLE	CREDITS
PRC 201 (CORE)	Introduction to Literary Studies	4
PRC 203 (CORE)	History of Portuguese Literature II	4

PRO 201 (OPTIONAL)	History of Portuguese Theatre	4
PRO 211 (OPTIONAL)	Portugal in the Context of the European Union*	4
PRO 214 (OPTIONAL)	Writing and Communication Skills	4
PRO 222 (OPTIONAL)	Academic Writing	4
PRO 218 (OPTIONAL)	Portuguese Language Level II A1.2**	4

Total No. of Credits: 20; Core: 08; Optional: 12

SEMESTER III

COURSE CODE	COURSE TITLE	CREDITS
PRC 205 (CORE)	Introduction to Portuguese Culture	4
PRC 206 (CORE)	Portuguese Literature I	4
PRO 204 (OPTIONAL)	Portuguese Literature of Voyages	4
PRO 207 (OPTIONAL)	Multimedia and Technical Translation	4
PRO 212 (OPTIONAL)	Epic Poem in Portuguese Literature	4
PRO 215 (OPTIONAL)	Creative Writing	4
PRD 216 (OPTIONAL)	Dissertation	8
PRO 219 (OPTIONAL)	Portuguese Language Level III A2.1**	4

Total No. of Credits: 20; Core: 08; Optional: 12

SEMESTER IV

COURSE CODE	COURSE TITLE	CREDITS
PRC 207 (CORE)	Portuguese Literature II	4
PRC 208 (CORE)	Indo-Portuguese Literature	4
PRO-205 (OPTIONAL)	Brazilian literature	4
PRO 206 (OPTIONAL)	African Literature in Portuguese	4
PRO 208 (OPTIONAL)	Contemporary Portuguese Literature	4
PRO-210 (OPTIONAL)	Methodology of teaching Portuguese as a foreign language	4
PRD 216 (OPTIONAL)	Dissertation	8
PRO 220 (OPTIONAL)	Portuguese Language Level IV A2.2**	4

Total No. of Credits: 20; Core: 08; Optional: 12

* Optional Courses in English for P.G. students of other Departments.

** Optional Portuguese Language Courses for P.G. students of other Departments.

B.A. Honours in Portuguese programme:

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE TYPE	COURSE CODE	COURSE TITLE	CREDITS
Discipline specific core [DSC 1A]	PRC-101	Civilization and Culture I	4
Generic elective [GE1]	PRG-101	Portuguese Language I	4

SEMESTER II

COURSE TYPE	COURSE CODE	COURSE TITLE	CREDITS
Discipline specific core [DSC 1B]	PRC-102	Civilization and Culture II	4
Generic elective [GE2]	PRG-102	Portuguese Language II	4

SEMESTER III

COURSE TYPE	COURSE CODE	COURSE TITLE	CREDITS
Discipline specific core [DSC 1C]	PRC-103	Literary Prose	4
Generic elective [GE3]	PRG-103	Portuguese Language III	4
Skill enhancement course [SEC1]	PRS-101	Writing Practical - Journalism	4

SEMESTER IV

COURSE TYPE	COURSE CODE	COURSE TITLE	CREDITS
Discipline specific core [DSC 1D]	UPRC-104	Chronicles & Travelogues	4
Generic elective [GE4]	UPRG-104	Portuguese Language IV	4
Skill enhancement course [SEC2]	UPRS 102	Reading, Listening and Singing the Fado	4

V.R.P.P courses under the J.H. Cunha Rivara Chair

COURSE CODE	COURSE TITLE	CREDITS
PRO 121	Language Contact in South Asia and the Role of Portuguese	1
PRO 122	Lusosonia: Post-colonial cartographies on sounds and memories	1
PRO 123	New Historiographical perspectives on Portuguese Overseas Expansion	1
PRO 124	Goa in the making of the Portuguese Empire (16 th -18 th centuries)	1
PRO 125	Heritage(s) of Portuguese Influence in the Indian Ocean Borders	1
PRO 126	Methods of Language Documentation	1
PRO 127	The Government of Difference in the Portuguese Empire (15 th – 18 th centuries)	1
PRO 128	Ethnography of musical practices in Goa	1

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FACULTY OF SOCIAL SCIENCES

Dean: **Noronha, Sylvia M.**



The Faculty of Social Sciences comprises of seven Departments:

1. Department of History
2. Department of Philosophy
3. Department of Political Science
4. Department of Sociology
5. Department of Library and Information Science
6. Department of Women's Studies
7. Department of International Relations

1. DEPARTMENT OF HISTORY

a) Programmes offered and number of student intake:

Programmes	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1967 (CPIR)	M.A.	69	6205.00
Code: HS	M.Phil.		12390.00
	Ph.D.		12155.00

b) Introduction about the Department:

Maritime history and Indo-Portuguese history are the thrust areas of the department. However, the Department also offers courses in general aspects of ancient, medieval and modern Indian history, apart from the history of Goa. In this way, an attempt is made to provide varied options to the students so that they obtain knowledge in varied subjects, thereby enabling them to compete with the students of other universities. The Department offers varied papers on the areas such as maritime history, history of Portuguese colonialism, ancient and medieval Goa, ancient, medieval and modern India, Urbanization, oral history, museology, environmental history of India, history and theory, research methodology, tourism studies, Marathas, West Asia, and Africa. Apart from classroom teaching, the Department also conducts periodical field trips by taking students to the Goa Archives, Museums, and environmentally sensitive regions of Goa. The Department organises seminars every year and encourage the research scholars and post graduate students to attend the same, thereby enhancing their knowledge base. The Department also organises lectures by visiting research scholars and professors.

c) Major Facilities Available in the Department:

Even though there is no Departmental Library, the Department has access to the large collection of books and journals of the Goa University Library. Students are encouraged to visit Library to improve their knowledge concerning a particular topic.

The Department has set up a computer lab with Internet connection maintained by the Computer Centre of Goa University. There is wifi and cable Internet connection. The computers have access to the e resources such as jstor.org, a repository of valuable journals that can be accessed by the students online through computers and laptops.

The classrooms of the Department are equipped with LCD facility, thereby enabling the faculty and the students to project the result of their ppt and other files on the large screen. It enables the

faculty and the students to use audio and video resources available in the web based channels such as vyaas, youtube, swayam etc. In one class room there is a television set, which can be connected to laptop by using the HDMI cable. Apart from these facilities, the classroom has uninterrupted power supply through Inverters. The classrooms are also fully air conditioned.

d) Placement Sources for the Students:

The students of the Department are employed in different sectors such as education, research, government and non governmental organizations.

e) List of Faculty & their Specialisations:

Head of the Department: Rao, Nagendra.

Professors

Kamat, Pratima. P, Ph.D. (University of Bombay)

Indo-Portuguese History and Maritime Studies, Gender Studies, History of Goa.



Rao, Nagendra. Ph.D. (Goa University)

Ancient India and Economic History of Western Coastal India.



Associate Professor

Parobo, Parag D. M.A. (Goa University)

Maritime History, Tourism, Indo-Portuguese History, Post-Colonial Studies, Intellectual History (on study leave)



Assistant Professors

Risbud, Seema S. Ph.D. (Goa University)

Indo-Portuguese History, Decolonisation Movements and Studies in Indian Culture and Heritage



Naik, Nalini C. Ph.D. (Deccan College Post Graduate and Research Institute)

Political, Social and Economic History of Ancient India, History of Goa, Art and Architecture, Epigraphy and Numismatics, Museum studies.



f) Structure of programmes:

M.A. History Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE CODE	COURSE TITTLE	CREDITS
HSC 150	"Doing History": An Introduction to Historical Methods	4
HSC 151	Debates in Indian History (Upto 18th Century)	4

Total No. of Credits: 16; Core: 8; Optional: 8;

SEMESTER II

COURSE CODE	COURSE TITLE	CREDITS
HSC 152	History and Theory	4
HSC 153	Early Modern Europe 1300-1750	4

Total No. of Credits: 16; Core: 8; Optional: 8;

SEMESTER III

COURSE CODE	COURSE TITLE	CREDITS
HSC 154	India and the Indian Ocean	4
HSC 155	Indian National Movement (1857-1947)	4

Total No. of Credits: 16; Core: 8; Optional: 8;

SEMESTER IV

COURSE CODE	COURSE TITLE	CREDITS
HSC 156	Colonialism and Nationalism in Asia	
HSC 157	Issues and Debates in Goan History	

Total No. of Credits: 16; Core: 8; Optional: 8;

COURSE CODE	COURSE TITLE (OPTIONAL COURSES)	CREDITS
HSO 160	History of India, 1757-1857	4
HSO 161	Modern West Asia	4
HSO 162	History, Heritage and Tourism: Themes and Issues	4
HSO 163	Trade and Urbanisation in India – I	4
HSO 164	Tribal and Urbanisation in India – II	4
HSO 165	Aspects of State and Society in India (BCE 600 - ACE 600)	4
HSO 166	Environmental History of India	4
HSO 167	Construction and Representation of Goan Identity	4
HSO 169	Economic History of Medieval India	4
HSO 171	An Introduction to Museology	4
HSO 172	Oral History	4
HSO 173	A History of Portuguese Colonialism 1415-1974	4
HSO 174	A History of the Indian Diaspora	4
HSO 175	Imperialism, Nationalism and Decolonisation in Africa	4
HSO 176	Polity, Economy of the Marathas (1600 – 1800)	4
HSO 177	Historiography in India	4
HSO 180	Tribal and Peasant Movements in India (1855-1951)	4
HSO 182	History of India (1947-1984)	4
HSO 183	History of USA: From Isolation to Dominance (1898-1945)	4
HSO 184	Modern Europe (1789-1989)	4
HSO 185	Aspects of Socio-Cultural History of the Marathas	4
HSO 200	History and the Disciplines	1
HSO 202	Academic Writing	4
HSO 203	From Living Rock: Caves and Rock-Temples of India	1

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2. DEPARTMENT OF PHILOSOPHY

a) Programmes offered & number of student intake:

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1967 (CPIR)	M.A. Philosophy	19	6205.00
Code: PY	M. Phil		12390.00
	Ph.D.		12155.00

b) Introduction about the Department:

M.A. Programme in Philosophy focuses on developing critical acumen in students with regard to philosophical issues and problems both in the Western and Indian Traditions of Philosophizing. The approach adopted for this purpose is largely analytical, critical and hermeneutical. The Department offers a wide range of courses in Indian Philosophy, Western Philosophy, Logic and Continental Philosophy.

c) Major facilities available in the Department:

Department of Philosophy provides Desktop Computers to be used in the Department for research work and assignments. The library portal gives access to E-Resources. The Department has LED projectors for presentations.

d) Placement sources for the Students:

In Goa University, the Directorate of Student Placement and Alumni Relation (DSPAR) organises at least one placement fair a year. Students passing out from Goa University can make use of the platform. A good number of employers participate and identify smart students suiting to their needs.

In the past, some of our former students have joined as faculty in reputed institutions like IIT Roorkee, Uttarakhand; Vidyasagar University, Midnapore, West Bengal; and St. Stephen's College, New Delhi besides Colleges in Goa.

e) Any other information:

The Department of Philosophy makes use of Contributory Faculty from the affiliated colleges and Visiting Professors under the VRPP in floating Optional Courses and Lectures. Lectures by eminent philosophers are organised periodically by the Department of Philosophy. In the recent past, we had organised lectures by Prof. Akeel Bigrami (Columbia University, New York, USA), Prof. Sonia Sikka (University of Ottawa, Ontario, Canada), Prof. Mohini Mullick (ICPR National Fellow, New Delhi), Prof. Sharad Deshpande (ICPR National Fellow, Poona), Prof. Nirmalangshu Mukherji (ICPR National Fellow, New Delhi), Prof. William Sweet (St. Francis Xavier University, Nova Scotia, Canada), and Prof. Dhruv Raina (JNU, New Delhi).

Department of Philosophy attracts students from other Universities in India as well as abroad for both the Master's programme and Doctoral Research in Philosophy.

f) List of Faculty & their Specialisations:

Head of the Department: Tharakan, Koshy

Professors

Pai Vernekar, Sanjyot D. Ph.D. (Goa University)
Medical Ethics.



Tharakan, Koshy Ph.D., (University of Hyderabad)
Philosophy of Social Science, Phenomenology.



Assistant Professors

Menezes, Walter Ph.D. (IIT Bombay)

Classical Indian Philosophy, Vedanta, Buddhism & Jainism, Philosophy of Religion,
Legal Philosophy, Logic & Epistemology



Naik, Rajavi D. M.A. (Goa University)

Applied ethics and Indian philosophy.



g) Structure of programmes:

M.A. Philosophy Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

COURSE CODE	CORE COURSES	CREDITS
PYC 111	History of Western Philosophy	4
PYC 112	Classical Indian Philosophy	4
PYC 213	Logic and Epistemology	4
PYC 214	Introduction to Analytic Philosophy	4
PYC 113	Aristotelian Logic	4
PYC 215	Contemporary Indian Philosophy	4
PYC 216	Meta-Ethics	4
PYC 217	Schools of Vedanta	4
	OPTIONAL COURSES	
PYO111	A.J. Ayer	4
PYO 113	Philosophy of Religion	4
PYO 114	Sri Aurobindo	4
PYO 115	Philosophy of Social Sciences	4
PYO 116	Human Rights	4
PYO 117	Environmental Ethics	4
PYO118	Bio-Ethics	4
PYO 119	Philosophy of Science	4
PYO 125	Husserlian Phenomenology	4
PYO 211	Heidegger	4
PYO 212	Philosophy of Mind	4
PYO 311	Dissertation	8
PYO 312	Symbolic Logic	4

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3. DEPARTMENT OF POLITICAL SCIENCE

a) Programmes offered & Number of Student Intake:

Programmes	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1973 Code: PS	M.A. Political Science	38	6205.00
	M.Phil.		12390.00
	Ph.D.		12155.00

b) Introduction about the Department:

The Department of Political Science seeks to empower students with the knowledge of both the theory and practices of politics by relating it to the local, national and the global landscape over the two years Masters Program me. It seeks to constantly innovate teaching and learning methodologies to equip the students for a better future career. The Department has made significant contributions in the area of Decentralized Governance, South Asia, Democratic Politics and Goa's Politics. The teaching program and curriculum is regularly updated and reflects the core competencies of the faculty members.

c) Major Facilities available in the Department:

The Department has a Resource Room consisting of periodicals and books donated by the alumni and faculty members. It also has well equipped class room with audio-video and ICT facility for conducting classes, small workshops and meetings.

d) Placement Sources for the Students:

Affiliated colleges, Media Outlets, Government Departments and Non-Governmental Organizations.

e) Any other Information:

Department has active collaboration on a number of advocacy programmes run by the Office of Governor , Goa and Chancellor, Goa University, Chief Electoral Officer, Goa and Goa Institute of Public Administration and Rural Development

f) List of Faculty & their Specialisations:

Head of the Department: Tripathi, Rahul.

Professor

Tripathi, Rahul. Ph.D. (JNU)

South Asian Politics, International Political Economy, Human Rights.



Assistant Professors

Desai, Prakash. Ph.D. (JNU)

Indian Politics, Political Theory.



Shringare, Alaknanda. Ph.D. (Karnataka University)

Governance, Public Administration.



Gaunkar, Ravaji. M.Phil (Goa University)
Rural Governance, Goan Society and Politics.



Naik Shradha, Ph.D. (JNU)
International Relation, South Asia, Human Rights



Naik Prachi, M.A. (Goa University)
Political Theory, Critical Theory, Language & Politics



g) Structure of programmes:

M.A. Political Science Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

COURSE CODES	COURSE TITLE (CORE COURSES)	CREDITS
PSC 101	Political Theory: Concepts and Perspectives	4
PSC 102	International Relations	4
PSC 103	Public Administration: Theories and Concepts	4
PSC 104	Political Economy of India	4
PSC 105	Modern Indian Political Thought	4
PSC 106	Constitutional Government in India	4
PSC 107	Government and Politics in South Asia	4
PSC 108	Democratic Politics in India: Issues and Dynamics	4
	COURSE TITLE (OPTIONAL COURSES)	
PSO 201	Human Rights	4
PSO 202	Research Methods in Political Science	4
PSO 203	Rural Development and Research	4
PSO 204	Critical Perspectives in Politics	4
PSO 205	Theories of Democracy	4
PSO 206	Development Administration & Governance	4
PSO 207	Urban Governance and Environment	4
PSO 208	State & the Marginalized	4
PSO209	Political Economy of Goa	4
PSO 210	India's Foreign Policy	4
PSO 211	International Political Economy	4
PSO 212	Evolving Dimensions of Strategic Studies	4
PSO 213	India's Maritime Security and Strategy	4
PSO 214	Key Texts in Indian Political Thought	4

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4. DEPARTMENT OF SOCIOLOGY

a) Programmes offered and number of student intake:

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1974 (CPIR) Code: SO	M.A. Sociology	25	6205.00
	M.Phil.		12390.00
	Ph. D.		12155.00

b) Introduction about the Department:

The teaching programme in Sociology blends classical foundations with contemporary developments and debates. Substantively, moving beyond its disciplinary confines, the Department seeks to promote teaching and research on contemporary Goa. At the Master's level, the Department promotes fieldwork based assignments and dissertations. Towards this end, it holds an annual Research Methodology Training camp. Students are encouraged to participate and present papers in conferences and seminars.

c) List of Faculty & their Specialisations:

Head of the Department: Somayaji, Ganesha.

Professor

Somayaji, Ganesha. Ph.D. (Goa University)
Social Theory, Sociology of Food, Language and Society.



Associate Professor

Haldankar, Arvind N. Ph.D (Goa University)
Sociology of Tribes, Ethnography, Environmental Issues



Assistant Professors

Coelho, Joanna P. Ph.D. (Goa University)
The Indian Diaspora, Sociology of Language, Sociology of Indian Society.



Dias, Favita. M.A. (Goa University)
Social Inequality.



Fernandes, Mozinha. M.A. (Goa University)
Sociology of Tribes.



Mendes, Ninotchka. M.A. (Goa University)
Tourism and Livelihoods



d) Structure of programmes:

M.A. Sociology Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

COURSE CODES	COURSE TITLES (CORE COURSES)	CREDITS
SOC 101	Classical Sociological Theories	4
SOC 102	Sociology of Indian Society	4
SOC 103	Contemporary Sociological Theories	4
SOC 104	Indian Sociological Perspectives	4
SOC 105	Recent Trends in Sociological Theorising	4
SOC 106	Political Sociology	4
SOC 107	Sociology of Social Stratification	4
SOC 108	Philosophy of Social Sciences	4
	OPTIONAL COURSES	
SOO 201	Methodology of Research in Sociology	4
SOO 202	Agrarian Social Structure in India	4
SOO 203	The Indian Diaspora	4
SOO 204	Education and Society	4
SOO 205	Understanding Goa	4
SOO 206	Language and Society	4
SOO 207	Urban Sociology	4
SOO 208	Sociology of Medicine	4
SOO 209	Social Gerontology	4
SOO 210	Environmental Sociology	4
SOO 211	Food, Society, and Culture	4
SOO 212	Nation-state and Refugees	2
SOO 213	Sociology of Gender	4
SOO 214	Sociology of Development	4
SOO 215	Sociology of Religion	4
SOO 216	Engaging with Contemporary Ethnographies	4
SOO 217	Out in the Field – Experimenting Ethnographic Fieldwork	4
SOO 218	Understanding Contemporary Music – Music Notations and Social Processes	2
SOO 17	Understanding xxth Century Social Processes through Contemporary Music	2
SOO 220	Social Exclusion: Theories, Concepts, and Policies	4
SOD	Dissertation	8

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5. DEPARTMENT OF LIBRARY & INFORMATION SCIENCE

a) Programme offered and number of student intake:

Programmes	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 2013 Code: BL	Bachelor of Library & Information Science (B.L.I.Sc)	31	22974.00
Established: 2014 Code: ML	Master of Library & Information Science (M. L.I.Sc)	25	26790.00

b) Introduction about the Department:

The Library and Information Science Department conducts two Programmes leading to (a) Bachelor's Degree; Bachelor of Library & Information Science (B.L.I.Sc.) consisting of two semesters and (b) Master's Degree; Master of Library & Information Science (M.L.I.Sc.) consisting of two semesters. Both programmes will carry 40 credits each. The duration of the Programme is one year for (a) B.L.I.Sc. and one year for (b) M.L.I.Sc.

c) Major facilities available in the Department:

The department is attached to the University Library. This will help in students learning the functions of a library. The department also has a library with good collection of books in Library and Information Science. We also have access to e-journal databases. And has a cyber lab with 35 computers.

d) List of faculty & their specialisation:

Head of the Department : Dean, Faculty of Social Sciences

Co-ordinator:

Gopakumar, V. Ph.D. (Mangalore University)
Library Administration, Digital Library and Research Methodology.



Assistant Professors

Pereira, Shamin Ph.D. (University of Pune)
Information literacy, User studies



Volvaikar, Novelty R., M.L.I.Sc. (IGNOU)

Library Automation, Digital Libraries, Information Technology, Informetrics and Scientometrics



Mhamal, Milind C., M.L.I.Sc. (Annamalai University)

Library History, Book History, Book trade, Library Classification, Bibliography, Translations



Parab, Rohan L., M.L.I.Sc. (Goa University)

Library Classification, Library Automation, Use of web-based services in libraries





e) Structure of different programmes:

**Bachelor of Library & Information Science (B.L.I.Sc.) Programme
Scheme of Instruction (Semester System)**

COURSE CODES	COURSE TITLES	CREDITS
Semester I		
BLC 101	Library Information and Society	3
BLC 102	Reference and Information Sources	3
BLC 103	Information Processing and Retrieval I	3
BLC 104	Information Processing and Retrieval II	2
BLC 105	Management of Library and Information Centres	5
BLC 106	Information Services and Systems	4
Semester II		
BLC 201	Fundamentals of Information Technology (Theory)	5
BLC 202	Information Processing and Retrieval III – Cataloguing	4
BLC 203	Information Processing and Retrieval IV – Cataloguing	1
BLC 204	Information Technology (Practical)	2
BLC 205	Digital Content Development and e-publishing	4
BLC 206	Digital Information Management	4

**Master of Library & Information Science (M.L.I.Sc.) Programme
Scheme of Instruction (Semester System)**

COURSE CODES	COURSE TITLES	CREDITS
Semester I		
MLC 101	Information Retrieval	3
MLC 102	Library Automation and Networks	3
MLC 103	Library Automation Software (Practical)	2
MLC 104	Research Methodology	3
MLO 105	Web 2.0	3
OR		
MLO 106	Electronic Information Sources and Services	3
OR		
MLO 107	Ethics in Academic writing	3
Semester II		
MLC 201	Digital Libraries (Theory)	4
MLC 202	Digital Libraries (Practical)	3
MLC 203	Webometrics, Informetrics & Scientometrics	2
MLC 204	Marketing of Information products and services	2
MLO 205	Information Literacy	3
OR		
MLO 206	Scholarly communication	3
OR		
MLO 208	Development of Massive Open Online Course (MOOC) Modules	3
MLC 207	Dissertation is a compulsory component of MLISC Programme	12

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6. DEPARTMENT OF WOMEN'S STUDIES

a) Programmes offered and Number of Student intake:

Programme	Programmes offered	Intake	Tuition Fee (Rs.)
Established: 2013	M.A. Women's Studies	19	6205.00
Code: WS	Ph.D.		12155.00

b) Introduction about the Department:

Women's Studies in India, is an interdisciplinary field of feminist scholarship and is a comparatively new discipline within the formal University system. Goa University is one of the forerunners in this respect having initiated Women's Studies as early as 1988.

The Department of Women's Studies at Goa University offers MA and PhD Programmes which are designed to facilitate critical thinking and develop new knowledge. Through the use of a variety of teaching and learning tools, we strive to help students understand how inequalities are created and perpetuated. Our programmes are intended to develop in students the capacity and skills to bring about change, create new areas of service and to ultimately impact policy and the discourse on women's development in the country. The MA and PhD programmes also aim at creating research capacities for students to engage with the academic discipline of Women's Studies.

The Department of Women's Studies works closely with various stakeholders including Government and civil society organizations on advocacy, research and extension activities for women's empowerment. The Department has played an instrumental role in the setting up of the Women's Cell in the Police Headquarters, the 181 Helpline service for women, Goa State Women's Commission and the Goa State Resource Centre for Women. Students who are trained in Women's Studies can contribute to any organization working for women, or on human rights, media, environment or development.

c) Major Facilities available in the Department:

The Department has a Resource Room for students, two well equipped classrooms with modern teaching and learning tools and over 1000 books housed in the main library. Additionally for every Women's Studies course the department maintains a Course Pack of reading material for students. The teachers provide individual student mentoring. Teachers also help students to enhance their communication skills.

d) Placement Sources for the Students:

Government Departments including Department of Women and Child Development, Government outreach projects NGOs, Colleges, Schools, Research, CSR.

e) Any other Information:

Varied teaching and learning tools are used such as digital storytelling, films, group discussions, field trips, role-play, reading clubs, film festivals and campaigns. All lecture presentations are circulated. Field realities are brought into the classroom through field placements and students are encouraged to engage with the community. Local experts are also invited to the classroom to share their experiences.

f) List of Faculty and their Specialisations:

Head of the Department: Desouza, Shaila

Professor

Desouza, Shaila. Ph.D. (TISS, Mumbai)

Gender: Development, Health, Welfare, Empowerment, Feminist Theory.



Associate Professor

Lolayekar, Aparna Ph.D. (Goa University)

Growth Economics, Gender, Development, Spatial Econometrics and Data Analysis.



Assistant Professors

Desai, Nishtha Ph.D. (Goa University)

Child and Women Rights, Women's Literature.



Pednekar, Sulochana M.A, MPS, (IIPS, Mumbai)

Health, Education, Sanitation and Environment.



Prabhu, Prachi M.Phil (TISS, Mumbai)

Gender, Feminist History and Sexuality.



Zaraunker, Vithai M.A (Goa University)

Gender, Caste and Tribe.



g) Structure of programmes:

M.A. Women's Studies programme

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE CODE	COURSE TITLE	CREDITS
WSC 111 (Core)	Core Concept in Women's Studies and Feminist Thought	4
WSC 112 (Core)	Mapping Women's Movement	4
WSC 116 (Core)	Gender, Marginality	4
WSO 119 (OPTIONAL)	Gender, Education	4

Total No. of Credits: 16; Core: 12; Optional: 04;

SEMESTER II

COURSE CODE	COURSE TITLE	CREDITS
WSC 113 (Core)	Gender, Development and the State: Issues in the World, India & Goa	4
WSC 114 (Core)	Doing Feminist Research	4
WSC 115 (Core)	Field Work Skills and Practice	4
WSO 112 (OPTIONAL)	Gender and Culture	4

Total No. of Credits: 16; Core: 12; Optional: 04;

SEMESTER III

COURSE CODE	COURSE TITLE	CREDITS
WSC 117 (Core)	Gender Sensitive Intervention for Change	4

WSC 116 (Core)	Gender and Media	4
WSC 117 (Core)	Demography, Labour, Work and Gender	4
WSO 120 (OPTIONAL)	Women and Violence	4

Total No. of Credits: 16; Core: 12; Optional: 04;

SEMESTER IV

COURSE CODE	COURSE TITLE	CREDITS
WSC 118 (Core)	Gender, Human Rights and Law	4
WSO 111 (OPTIONAL)	Women's Health : Critical Debates	4
WSO 118(OPTIONAL)	Gender, Environment and Ecology	4
WSO 113 (OPTIONAL)	Re-reading History: Feminist Perspectives	4
WSD 111(OPTIONAL)	Dissertation	8

Total No. of Credits: 16; Core: 04; Optional: 12 (Including Dissertation)

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7. DEPARTMENT OF INTERNATIONAL RELATIONS

a) Programmes Offered & number of student Intake:

Programmes	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1988 Code: IR	M. A. International Studies	19	6205.00
	M.Phil in Latin American Studies		12390.00
	Ph. D in International Relations & Latin American Studies		12155.00
	Certificate of Proficiency in Spanish Language Level I & II		4200.00
	Certificate of Proficiency in Japanese Language – (A1 KATSUDO and A-1 RIKAI)		4200.00

b) Introduction about the Department:

The Department of International Relations conducts a university-based programme devoted to the study of International Relations and Latin America and the Caribbean Studies, combining Research, Teaching, Publishing and Public Extension activities. The academic emphases of the various programmes are inter-disciplinary. The department conducts National and International Conferences, Seminars and Workshops on various theme and issues related to its various academic programmes. The Faculty of the department have attended many Conferences, Seminars and Workshops in a number of foreign countries as well as with in India. They are also members of various academic bodies like in Brazil, Mexico and Romania. The Faculty members have also been Visiting Faculty in Taiwan, France, Poland, Serbia, and Brazil among others. They have also received many awards and been recognised for their distinguished services to the organizations and institutions located in India and abroad. The department regularly organises talks by distinguished speaks, diplomats and academicians for the students and faculty at Goa University.

The department also conducts various extension activities like celebration of the UN Day, Round Table Discussions, as well as organise Latin American Movie Club regularly. The department has number of MoU with Indian and International institutes of academic excellence. The department also attracts a number of students from various countries of Asia and Africa.

c) Major facilities available in the Department:

The department is richly endowed with suitable infrastructure and other facilities. There are three fully equipped (with Audio Visual Infrastructure) Classrooms. There is a Common Computer Room with internet and other facilities that provide access for students to study as well as conduct their research. There is a small Conference Hall with suitable infrastructure including Audio Visual equipments. The department has WiFi facilities for all faculties and students.

d) DST/FIST/Any other:

Faculties are engaged in major research project with ERASMUS, Europe.

e) Placement Sources for the Students:

A large number of students are well placed in various sectors like Education, Banking, Public Relations, Media, and Diplomacy among others. Many students have also moved on for further studies to institution of academic excellence abroad like Italy, Australia etc.

f) Any other Information:

The department is conducting a programme on Level-I and II in Spanish Language for the students enrolled at Goa University and others. The department is also conducting (A-1 KATSUDO and A-1 RIKAI) Proficiency in Japanese Language (Beginners Level I and II) and is held thrice a week and has attracted a significant numbers of people from the civil society in Goa.

g) List of Faculty & their Specialisations:

Head of the Department: Gangopadhyay, Aparajita.

Professor

Gangopadhyay, Aparajita. Ph.D. (JNU)

Latin American Political Economy and International Relations.



Assistant Professors

Parulekar, Dattesh. M.A. (Goa University)

International Relations and International Organisation.



Astarloa, Clara. M.A. (University of Seville, Spain)

Spanish Language, Latin American History, Arts & Culture, North and Latin American Literature Creative Writing (on tenure basis).



h) Structure of programmes:

M.A. International Studies

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE CODE	COURSE TITLE	CREDITS
IRC 101	Theories in International Relations	4
IRC 102	International Relations: Concepts and Perspectives	4

Total No. of Credits: 20; Core: 08; Optional: 12;

SEMESTER II

COURSE CODE	COURSE TITLE	CREDITS
IRC 103	International Political Economy	4
IRC 104	International Law	4

Total No. of Credits: 20; Core: 08; Optional: 12;

SEMESTER III

COURSE CODE	COURSE TITLE	CREDITS
IRC 105	International Organisation	4
IRC 106	India's Foreign Policy	4

Total No. of Credits: 20; Core: 08; Optional: 12;

SEMESTER IV

COURSE CODE	COURSE TITLE	CREDITS
IRC 107	US Foreign Policy in Perspective	4
IRC 108	Research Methodology in International Relations	4

Total No. of Credits: 20; Core: 08; Optional: 12;

OPTIONAL COURSES

COURSE CODE	COURSE TITLE	CREDITS
IRO 101	Geopolitics: Theory and Practice	4
IRO 102	Evolving Dimensions of Strategic Studies	4
IRO 103	Latin America and the Caribbean in World Affairs	4
IRO 104	Africa in World Affairs	4
IRO 105	Government and Politics of South Asia	4
IRO 106	Russia in World Affairs	4
IRO 107	'Understanding' China	4
IRO 108	Society, Politics and Foreign Policy of Brazil	4
IRO 109	Politics, Society and Foreign Policy of Australia	4
IRO 110	Contemporary Issues in International Relations	4
IRO 111	Survey of Latin American History	4
IRO 112	Government and Politics in Latin America	4
IRO 113	Political Economy of Latin America and the Caribbean	4
IRO 114	Sociology of Latin America	4
IRO 115	Middle East in International Affairs	4
IRO 116	East and South East Asia in International Affairs	4
IRO 117	India's Maritime Security and Strategy	4
IRO 118	Central Asian Politics and Society in World Affairs	4
IRO 119	Israeli Polity, Economy, Society and Foreign Policy	4
IRD 120	Dissertation	8
IRO 121	Spanish Language Level I (Beginners I)	4
IRO 122	Spanish Language Level I (Beginners II)	4
IRO 123	European Union in Global Affairs	4
IRO 124	Theories in International Relations	4
IRO 125	International Relations: Concepts and Perspectives	4
IRO 126	International Political Economy	4
IRO 127	International Law	4
IRO 128	International Organisation	4
IRO 129	India's Foreign Policy	4
IRO 130	US Foreign Policy in Perspective	4
IRO 131	Research Methodology in International Relations	4
IRO 132	Spanish Language Level II (Advanced I)	4
IRO 133	Spanish Language Level II (Advanced II)	4

Proficiency Courses:

COURSE CODE	COURSE TITLE
COP	Certificate of Proficiency in Spanish Language (Level I and II)
COP	Certificate of Proficiency in Japanese Language (Beginners Level I and II)

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FACULTY OF NATURAL SCIENCES

Dean: **Priolkar, Kaustubh. R.**



The Faculty of Natural Sciences comprises of three Departments:

1. Department of Electronics
2. Department of Mathematics
3. Department of Physics

1. DEPARTMENT OF ELECTRONICS

a) Programmes offered and number of students intake:

Programmes	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 2010	M. Sc. Physics	19	16230.00
Code: EL	Ph. D.		12155.00

b) Introduction about the Department:

The Department offers both M.Sc. & Ph.D. degrees in Electronics. A candidate eligible for admission to a program leading to the degree of Master of Science in Electronics must have passed the examination of the Degree of Bachelor of Science with Physics/Computer Science/ Electronics of this University or from any other recognized University.

The thrust area of the master program is embedded system, supported by the UGC under innovative program. Summer Internship as well as industry associated minor and major projects are highlights of this program. The Department has projects in the areas of Biometrics, Hyper Spectral Imaging, Data Communications System, Biomedical, Agricultural Electronics.

c) Major Facilities available in the Department:

- * UV/Visible/NIR Spectrophotometer, UV-VIS-NIR Fiber-optic spectrometer, Spectrum analyzer, portable Signal Generator & Analyzer upto 3 GHz range, MIMO Communication system.
- * Hyper-spectral Imaging setup, Isolation table, various lasers and light sources.
- * 20-Channel EEG, ECG and EMG Biomedical system.
- * ALTERA Semiconductors technology developments boards for DSP, Image processing, trans-receiver, Ethernet; Controllers developments boards for PIC,89C52 ,ARM7/9, NI Speedy; Xilinx IDE ISE 7.1, MATLAB 2019, Lab View, TRI India Robotics development kits, VLSI, CAD tools (P-Spice), Microwind etc.

d) DST/FIST/Any Other:

Ph.D Scheme support from Ministry of Electronics and Information Technology, New Delhi

e) List of Faculty & their Specialisations:

Professor

Gad, Rajendra S. Ph.D. (Goa University)
Data Fusion and Communication System



Associate Professor

Parab, Jeevan S. Ph.D. (Goa University)
Embedded System Instrumentation and Signal Processing



Assistant Professors

Vetrekar Narayan T. Ph.D. (Goa University)
Hyperspectral Biometrics



Sequeira, Marlon Darius M.Sc. (Goa University)
Embedded systems, signal processing, FPGA.



f) Structure of programmes:

M.Sc. Electronics Programme

Scheme of Instruction: Semester System
(Choice Based Credit System)

COURSE CODES	COURSE TITLES	CREDITS
SEMESTER-I		
ELC 101	Microelectronics and VLSI Design	4
ELO 101	Advanced Digital Communication Systems	4
ELO 102	Numerical Computation and Algorithms (Flipped Classroom)	4
ELC 102	Electronics Practicals – I	4
ELO 181	SWAYAM-I (Digital Communication)	4
	Total No. of Credits:16 ; Core: 08; Optional: 08;	
SEMESTER II		
ELC 201	Embedded Systems Designs and IOT (Flipped Classroom)	4
ELO 201	Optical Communication Systems	4
ELO 202	Operating System and RTOS	4
ELC 202	Electronics Practicals- II	4
ELO 281	SWAYAM-II (Optical Communication)	4
ELO 203	Basics Of Medical Imaging	1
ELO 204	Data Science and Machine Learning	4
	Total No. of Credits:16 ; Core: 08; Optional: 08;	
SEMESTER III		
ELC 301	Signals and Systems	4
ELO 301	Digital Signal Processing	4

ELO 302	Instrumentation & Control Theory	4
ELC 302	Electronics Practicals - III	4
ELO 381	SWAYAM-III (Data Analytics)	4
<i>ELO303</i>	Digital System Design Using HDL	4
<i>ELO 304</i>	EDA Tools (Flipped Classroom)	4
ELO 305	Industrial Internship	1
	Total No. of Credits:16 ; Core: 08; Optional: 08;	
SEMESTER IV		
ELD401	Project	8
ELC 401	Laser System Engineering	4
ELC 402	Electronics Practicals - IV	4
ELO 481	SWAYAM-IV (Wireless Sensors Network/Data Analytics Programming)	4
ELO 402	Nanoelectronics & Nanosystems	4
ELO 403	Pharmaceutical Instrumentation	4
ELO 404	Communication and Technical Skills (Flipped Classroom)	4
	Total No. of Credits:16 ; Core: 08; Optional: 08;	

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2. DEPARTMENT OF MATHEMATICS

a) Programmes offered & number of student intake:

Programmes	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1965 (CPIR) Code: MT	M. Sc. Mathematics	38	6205.00
	M. Phil.		13980.00
	Ph. D.		12155.00

b) Introduction about the Department:

The Department offers post-graduate programme in Mathematics and is oriented towards research in Topology, Knot Theory, Differential Equations, Operator Theory, Mathematical Physics, Lie Algebra Functional Analysis, Number Theory and Combinatorics

c) Major Facilities available in the Department:

Department of Library with books purchased from NBHM Grants, Computer Lab.

d) Placement Sources for the Students:

Higher Secondary Schools and Colleges in Goa.

e) List of Faculty & their Specialisations:

Head of the Department: Dean, Faculty of Natural Sciences

Assistant Professors

Tamba, Manvendra. Ph.D. (Madras University)
Lie Algebras, Number Theory



Kunhanandan, Mailattu. Ph.D. (Goa University)
Functional Analysis, Combinatorics



Fernandes e Pereira, Jessica. Ph.D. (BITS Pilani, Goa)
Discrete Mathematics, Graph Theory.



f) Structure of programmes:

M.Sc. Mathematics programme

Scheme of Instruction (Semester System)
(Choice based Credit System)

SEMESTER I

COURSE CODE	COURSE TITLE	CREDITS
MTC 101	Real Analysis	4
MTC 102	Linear Algebra	4
MTC 106	Algebra	4
	Elective Course:	4

Total No. of Credits: 16; Core: 12; Optional: 4;

SEMESTER II

COURSE CODE	COURSE TITLE	CREDITS
MTC 107	Complex Analysis	4
MTC 105	Topology	4
MTC 201	Several Variable Calculus	4
	Elective Course:	4

Total No. of Credits: 16; Core: 12; Optional: 4;

SEMESTER III

COURSE CODE	COURSE TITLE	CREDITS
MTC 104	Differential Equations	4
MTC 203	Functional Analysis	4
MTO 208	Elective Course / Swayam Course	4
MTO 305	Elective Course / Swayam Course	4

Total No. of Credits: 16; Core: 8; Optional: 8;

SEMESTER IV

COURSE CODE	COURSE TITLE	CREDITS
	Elective Course (Flipped Classroom)	4
	Elective Course	4
	Elective Course	4
	Elective Course	4

Total No. of Credits: 16; Core: 0; Optional: 16;

List of CORE COURSES:	List of OPTIONAL COURSES:
MTC 101: Real Analysis MTC 102: Linear Algebra MTC 104: Differential Equations MTC 105: Topology MTC 106: Algebra MTC 107: Complex Analysis MTC 201: Several Variable Calculus MTC 203: Functional Analysis	MTO 106: Methods of Applied Mathematics MTO 107: Graphs and Networks MTO 108: Actuarial Science MTO 204: Partial Differential Equations MTO 206: Measure Theory MTO 207: Number Theory MTO 208: Lie Algebra MTO 209: Special Functions MTO 210: Difference Equations MTO 301: Advanced Algebra MTO 302: Combinatorics MTO 303: Differential Geometry MTO 304: Mathematical Modeling MTO 305: Integral Equations MTO 306: Sturm Liouville Problem MTO 307: Mathematics for Finance MTO 401: Advanced Linear Algebra MTO402: Commutative Algebra

Note: All the courses are of 4 Credits.

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3. DEPARTMENT OF PHYSICS

a) Programmes offered and number of student intake:

Programmes	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1963 (CPIR) Code: PH	M.Sc. Physics	50	12390.00
	M. Phil.		13980.00
	Ph. D.		12155.00

b) Introduction about the Department:

DST-FIST/UGC-SAP SPONSORED DEPARTMENT

Established in 1963, having its origins in the erstwhile Centre for Postgraduate Instruction and Research under University of Mumbai, the Department offers a two-year MSc, and PhD programme in Physics.

Department has well-equipped teaching laboratories with novel experiments in Physics. Students are oriented in using modern laboratory techniques as well as estimating uncertainties in measured and derived quantities.

The thrust area of research is experimental and theoretical Condensed Matter Physics. Department faculty are actively involved in studying structural, magnetic, optical and transport properties of different types of materials ranging from glass and glass ceramics, nano materials and nano structures, luminescent materials, magnetic shape-memory alloys, superconductors, electrocatalysts, energy storage materials etc. to understand the underlying basic physical mechanism as well as to develop new materials for applications. Some efforts are also concentrated on understanding quantum phase transitions in Bosonic systems.

Over the years the department has established state of the art characterization facilities through individual research grants from national funding agencies like DST-SERB, CSIR, BRNS, etc., and departmental assistance through DST-FIST and UGC-SAP. This has resulted in 39 PhD thesis, over 200 research articles in national and international journals of high repute and several hundred national and international conference presentations.

Faculty members have also established strong national and international collaborations with peers in leading Universities and Institutions and successfully completed international collaboration projects.

The department has organised several National and International Conferences, Symposia and Meetings attracting internationally renowned scholars in the subject. Department regularly conducts workshops and courses like the GIAN Course, DST-SERB School for the benefit of its research students.

c) Major Facilities available in the Department:

Over the years, the Department has established good facilities for research in Condensed Matter Physics and Materials Science. The facilities include: Programmable High Temperature Furnaces (upto 1600°C), Tri Arc Furnace, Pulse laser deposition system, Electrophoretic deposit setup Spin coating unit, Vacuum sealing facility, Glove-box, Sieve Shaker, Low speed Diamond wheel Cutter, Lapping and Polishing Machine, Rotating anode based X-ray diffractometer, Optical Microscopes, FTIR & UV-Vis spectrometers, Photoluminescence Spectrometers, Electrical Resistivity, AC susceptibility, Thermopower apparatus (ambient to 10K), Dielectric Bridge (10Hz – 3 MHz, ambient to 500°C), Differential Scanning Calorimeter (-140°C to 600°C), Thermo-gravimetric analyser

(ambient – 1100°C), Dynamical Mechanical Analyser (0.01Hz – 100Hz, -140°C to 600°C), Computer Cluster, Optical microscope with integrated optical trapping system and fluorescence imaging etc.

Apart from these facilities, the faculty members and research scholars regularly make use of National and International facilities like neutron diffraction facility at Dhruva reactor, BARC, Trombay, synchrotron facilities at RRCAT, Indore, Photon Factory, Japan, Petra, DESY, Hamburg, Elettra, Trieste, Italy, etc. through various funding schemes of Government of India and collaborative projects.

d) DST/FIST/Any other:

The Department is supported under DST-FIST (Level-I, Phase II), UGC-SAP (DSA-Phase III) and Infrastructure programmes.

e) Placement Sources for the Students:

Research Laboratories, Institutes and Universities in India and abroad (after Ph.D.) Teaching in schools (with B.Ed.) and colleges/Universities (with NET/SET)

f) Any other Information:

Department is one of the centres recognized by Indian Academy of Sciences, Bangalore for conducting the Experimental Physics Refresher Courses on behalf of the Joint Science Education Panel of the three national science academies.

g) List of Faculty & their Specializations:

Head of the Department: Priolkar, Kaustubh. R. S.

Professors

Pai, Ramesh V. Ph.D. (Institute of Physics/Utkal University, Bhubaneswar) (on deputation)
Theoretical Condensed Matter Physics.



Priolkar, Kaustubh. R.S. Ph.D. (Goa University)
Experimental Solid State Physics-NEXAFS and EXAFS.



Assistant Professors

Gaude, Pallavi P. M.Sc. (Goa University)
Theoretical Condensed Matter Physics



Naik, Pranav Ph.D. (Goa University)
Nanomaterial synthesis, Magnetism, Electrical properties, Radiation effect.



Palni, Prabhakar Ph.D. (University of New Mexico, USA)
Experimental High Energy Physics and Nuclear Physics



Raut Dessai, Reshma Ph.D. (Goa University)
Neutron Scattering, Porous media, Condensed matter Physics, Glass, Ceramic



Dias, Elaine T., Ph.D. (Goa University)
Experimental Condensed Matter Physics



UGC- Faculty (Assistant Professors)

Pahari, Bholanath. Ph.D. (Saha Institute of Nuclear Physics/Jadavpur University, Kolkata)
Condensed Matter Physics, NMR Spectroscopy



Cherukulappurath, Sudhir. Ph.D. (University of Angers, France)
Nonlinear Optics, Plasmonics, Nanophotonics



Hyam, Rajeshkumar S. Ph.D. (Shivaji University, Kolhapur)
Experimental Condensed Matter, Nanomaterial for Energy applications



Hathwar, Venkatesha R., Ph.D. (IISc, Bangalore)
X-ray Diffraction, Chemical Physics and Quantum Crystallography, Crystal Engineering,
Structural Materials Science



h) Structure of programmes:

M.Sc. Physics Programme

Scheme of Instruction (Semester System)
Choice based Credit System

COURSE CODES	COURSE TITLES	CREDITS
SEMESTER-I		
PHC 100*	Bridge Course on Mathematical Methods	2
PHC 111	Mathematical Physics	4
PHC 112	Classical Mechanics	4
PHC 113	Electromagnetic Theory	4
PHO114	Electronics Practical	2
PHO 110	Computer Programming in FORTRAN 95	2
SEMESTER -II		
PHC 116	Quantum Mechanics-I	4
PHC 117	Basic Electronics	4
PHC 118	Statistical Mechanics	4
PHO119	General Physics Practical	4
SEMESTER -III		
PHO 301	Summer Internship	1
PHC 211	Quantum Mechanics-II	4
PHO 212	Nuclear and Elementary Particle Physics	4
PHC 213	Solid State Physics	4
PHO 214	Solid State Physics Practical	4
SEMESTER -IV		
PHO 302	Neutron Physics	4

PHO 303	Superconductivity and Superfluidity	4
PHO 304	X-ray Spectroscopy	4
PHO 305	Electronics Practicals -II	4
PHO 306	Semiconductor Physics	4
PHO 307	Projects	8
PHO 310	Numerical Methods and Fortran Parallel Programming using open MP	4
PHO 311	Phase transitions and Critical phenomena	4
PHO 312	Spectroscopic Techniques in Condensed Matter Physics	4
PHO 313	Physics of energy materials	4
PHO 314	Documentation using Latex	1
PHO 315	Nanoscience and technology	4
PHO 316	Magnetism in condensed matter physics	4
PHO 317	CrystalSymmetry and X-ray Scattering	4

NOTE :* Not included for the calculation of GPA, but should be completed successfully.

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FACULTY OF LIFE SCIENCES & ENVIRONMENT

Dean: **Sharma, Prabhat K.**



The Faculty of Life Sciences & Environment comprises of four Departments:

1. Department of Biotechnology
2. Department of Botany
3. Department of Microbiology
4. Department of Zoology

1. DEPARTMENT OF BIOTECHNOLOGY

a) Programmes offered and number of student intake:

Programmes	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1988 Code: MB	M. Sc. Marine Biotechnology	30	12390.00
Established: 2003 Code: GB	M. Sc. Biotechnology	25	12390.00
	M. Phil. Biotechnology		13980.00
	Ph. D. Biotechnology		12155.00

b) Introduction about the Department:

Since its inception in 1988, the M.Sc. Marine Biotechnology programme has been funded by the Department of Biotechnology (Ministry of Science & Technology, Govt. of India, New Delhi), placing Goa University in an enviable position among the top DBT centre for M.Sc. Biotechnology, on par with Universities such as Jawaharlal Nehru University, New Delhi, M.S. University, Baroda, Banaras Hindu University and University of Pune, in terms of receiving continuous funding from the DBT for this M.Sc. Programme. Students taken in for the programme are nationally selected through the Combined Entrance Examination conducted by the Jawaharlal Nehru University, New Delhi. In view of its reputation and standard in producing world class human resource in Biotechnology in India, the Department was among the few centres identified to double the intake of students for the M.Sc. programme w.e.f. June 2003. Students qualifying through the Combined Entrance Examination receive a studentship of Rs. 5,000/-p.m. for the duration of the programme.

The Department is one of the pioneers in Marine Biotechnology teaching and research in the country and since the year 2008 has had the added distinction of being DST-FIST sponsored. It had been granted a sum of Rs. 30 lakhs by the DBT, exclusively for the replacement of obsolete equipment. It has excellent strengths that have been developed in the following thrust areas: MARine Viruses, study of agarases, xylanases, lipases, cellulases, alginate lyases, amylases and proteases of special characteristics of commercial importance from marine microorganisms; biodiversity & ecology of hypersaline Actinomycetes and sulphate reducing bacteria; study of marine macroalgae for nutraceutical properties, isolation of lectins and biofuel production bioactive substances from plant extracts and marine sources; bioremediation of heavy metals by salt pan bacteria and their nanoparticles. Genomics and Proteomics of Marine bacteria

c) Major facilities available in the Department:

PCR facility, UV- Vis Spectrophotometers, DNA/protein Fluorometer, Walk-in-Cold Room facility,

Cell disruption systems, Class II Biosafety Cabinet, Gel Documentation System, Lyophilizer, Tissue Culture facility, Deep freezers(-20 & -80⁰ C), Fluorescence/Phase Contrast Microscope, Pilot-scale Fermentators, Ultrapure water system, Departmental Library, Computer Lab for Bioinformatics, High speed Refrigerated Centrifuges, Ultracentrifuges, Protein purification system.

d) DST/FIST/Any other:

The M.Sc Marine Biotechnology programme is supported by the Department of Biotechnology, Ministry of Science and Technology, New Delhi.

e) Placement Sources for the Students:

After completion of M.Sc program, most of the students pursue their Ph.D in National/ International research institutes. Several students are selected for the Biotechnology Industrial Training Programme for on the job training. The students also find placement in pharmaceutical industries/ R & D laboratories and are employed as project trainees in several national laboratories.

f) Any other information:

*Summer training (4-6 weeks) is mandatory for M.Sc. Marine Biotechnology students. After completion of the second semester, the students are placed by the Department in R & D laboratories of nationally recognized institutes and industries.

A good number of our postgraduate students have been qualifying for the CSIR/UGC NET/SET fellowship, some of them also securing a very high ranking at the GATE examination. This is in addition to their achievements at the DBT, BITP/BCIL and ICMR fellowship examinations. The placement profile of each outgoing batch has also been excellent, with the students successfully gaining positions in nationally as well as internationally renowned institutions.

As part of the curriculum, the students are given the opportunity to undertake independent research projects during the third and fourth semesters, for which they are assessed through dissertation reports and presentations. Dissertation is compulsory for M.Sc. Marine Biotechnology.

g) List of Faculty & their Specialisations:

Head of the Department: Ghadi, Sanjeev C.

Professors

Muraleedharan, Usha D. Ph.D. (IISc, Bangalore)

Biochemistry, Enzymology, Biological Oceanographic Processes.

Kerkar, Savita S. Ph.D. (Goa University)

Marine Microbiology, Hypersaline Ecosystems.

Ghadi, Sanjeev C., Ph.D. (Goa University)

Molecular Biology, Biodegradation.



Assistant Professors

Samant, Sanika. Ph.D. (Goa University)
Microbiology



Prabhu, Meghanath. Ph.D (BITS Pilani, Goa)

General biotechnology, Microbial and Fermentation Biotechnology, Environmental Biotechnology and Waste Management, Algal Biotechnology, Bio-fuels, Sustainable Development.



Mapari, Dviti D., M.Sc. (Goa University)

Microbial Physiology, Immunology, Industrial Microbiology, Agricultural Microbiology.



UGC – Faculty

Assistant Professor

Tiwari, Dharmendra. Ph.D. (JNU)

Microbiology, Bionanoscience



Scientists from the National Institute of Oceanography, Goa also contribute to the teaching of marine-related courses.

h) Structure of different programmes:

M.Sc. Marine Biotechnology programme

Scheme of Instruction: (Semester System)

Choice based Credit System

COURSE CODE	COURSE NAME	CREDITS
SEMESTER I		
MBO 101	Fundamentals of general and marinemicrobiology	3
MBO 102	Concepts in biochemistry	3
MBC 103	Principles of genetics & molecular biology	3
MBO 104	Bioinstrumentation	2
MBO 105	Biostatistics	2
MBO 106	Communication skills & scientific writing	2
MBC 107	Principles of oceanography	2
MBO 111	Lab in marine microbiology	2
MBO 112	Lab in biochemistry	2
MBC 113	Lab in molecular genetics	2
SEMESTER II		
MBC 201	Introductory immunology	3
MBC 202	Cell & developmental biology	3
MBO 203	Environmental biotech	2
MBC 204	Seminar presentations	1
MBC 205	The marine ecosystem	2
MBO 206	Bioinformatics	2
MBO 207	Plant tissue culture technology	2

MBC 211	Lab in immunology	2
MBC 215	Lab in marine biology & chemistry	2
MBO 216	Lab in bioinformatics	2
MBO 217	Lab in plant tissue culture	1
	SEMESTER III	
MBC 301	Bioprocess & industrial biotechnology	3
MBC 302	Recombinant dna technology	3
MBC 303	Animal cell culture	2
MBC 304	Summer training presentation & report	1
MBO 307	Enzymology	3
MBO 308	Molecular immunology	3
MBC 311	Lab in fermentation technology	2
MBC 312	Lab in recombinant dna technology	2
MBO 313	Lab in animal cell culture	1
MBO 317	Lab in enzyme characterization	2
	SEMESTER IV	
MBC 402	Aquaculture technology & marine pharmacology	3
MBC 403	Potential applications of marine organisms	3
MBC 404	Seminar presentations	1
MBO 406	Biosafety & ipr	3
MBO 408	Applications of recombinant dna technology	3
MBO 409	Genomics and proteomics	3
MBO 410	Cellular biophysics	3
MBO 411	Scuba diving	2
MBO 412	Dissertation*	8

M.Sc. Biotechnology Programme

Scheme of instruction: (Semester System)

Choice based Credit system

COURSE CODE	COURSE TITLES	CREDITS
	SEMESTER I	
GBC 101	Fundamentals of microbiology	3
GBC 102	Concepts in biochemistry	3
GBC 103	Principles of genetics & molecular biology	3
GBC 104	Bioinstrumentation	2
GBO 105	Biostatistics	2
GBO 106	Communication skills and scientific writing	2
GBO 107	Principles of oceanography	2
GBC 111	Lab in microbiology	2
GBC 112	Lab in biochemistry	2
GBC 113	Lab in molecular genetics	2
	SEMESTER II	
GBC 201	Introductory immunology	3
GBC 202	Cell & developmental biology	3
GBC 203	Environmental biotechnology	2
GBC 204	Seminar presentations	1
GBO 205	Marine ecosystems	2
GBO 206	Bioinformatics	2
GBO 207	Plant tissue culture technology	2

GBC 211	Lab in immunology	2
GBO 215	Lab in marine biology & chemistry	2
GBO 216	Lab in bioinformatics	2
GBO217	Lab in plant tissue culture	1
	SEMESTER III	
GBC 301	Bioprocess & industrial biotechnology	3
GBC 302	Recombinant dna technology	3
GBC 303	Animal cell culture	2
GBC 304	Field trips & report	1
GBO 305	Nanobiotechnology	2
GBO 306	Food biotechnology	2
GBO 307	Enzymology	3
GBO 308	Molecular immunology	3
GBO 311	Lab in fermentation technology	2
GBC 312	Lab in recombinant dna technology	2
GBO 313	Lab in animal cell culture	1
GBO 317	Lab in enzyme characterization	2
	SEMESTER IV	
GBO 402	Aquaculture & marine pharmacology	3
GBO 403	Potential of marine organisms	3
GBO 404	Bioentrepreneurship	2
GBC 404	Seminar presentations	1
GBO 405	Biosafety & ipr	3
GBO 406	Advances in plant biotechnology	3
GBO 407	Advances in animal biotechnology	3
GBO 412	Dissertation*	8

M. Phil. (Biotechnology) (One Compulsory +Any two optional papers)

1. Paper I (Compulsory) : Research Methodology & Techniques
2. Paper II (Optional -1) : Functional Genomics
3. Paper III (Optional-2) : Microbial Technology
4. Paper IV (Optional-3) : Protein Chemistry and Enzyme Characterization
5. Paper V (Optional-4) : Basic Physics in Biosystems

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2. DEPARTMENT OF BOTANY

a) Programmes offered and number of student intake:

Programmes	Programmes Offered	Intake	Tuition Fees (Rs.)
Established: 1990 Code: BO	M.Sc. Botany	38	12390.00
	M.Phil.		13980.00
	Ph.D.		12155.00

b) Introduction about the Department:

The Department offers postgraduate studies and research in Botany with thrust area in Plant Diversity (Algae, Fungi, Bryophytes, Pteridophytes and Higher Plants), Plant Molecular Biology & Genetic Engineering, Plant Tissue Culture, Mycorrhizal Research, Plant Developmental Biology, Plant Histochemistry, Rice grain biology, Bio-prospecting of medicinal plants and Plant Physiology. Department has active R & D collaborations with industries on wine technology, mushroom cultivation and categorical support from local industries and eco-resorts for hands on training and compulsory internship for bio-entrepreneurship and ecotourism courses and for consultancy on re-vegetation of mine wastelands. Novel AM fungal species have been identified and published from the state of Goa. Besides, the department houses an AM fungal culture collection. Several new genera and species have been published through biodiversity studies, a family has been added to the Indian flora, substantial work on endemic plants of Western Ghats and group specific taxonomic revisions have been carried out for higher plants.

Faculty members are part of several international, national and state level committees, reviewers of proposals and papers, and on editorial boards of several journals.

Significant achievements of the department

- State and national award winning faculty and research scholars.
- With 526 research publications (44 %) leading department in the faculty.
- Several Alumni are globally well placed in respectable positions.
- Acknowledged as an important centre for Plant Science and Biodiversity studies in the Western Ghats and Western India.
- Excellent *ex situ* reference collection of Western Ghats plant herbarium and in house fungus cultures.
- Substantial contributions to policy formulations at state and national level.
- Leading department in creation of ecological and environmental awareness.
- Only department to be supported for seven years by the Planning Commission of India for documenting plant and fungal biodiversity of the Western Ghats.

c) Major facilities available in the Department:

The Department is equipped with Student and Research microscopes with photographic facilities, fluorescence microscope, SEM, HPLC, UV-VIS spectrophotometer, Chlorofluorometer, Lyophilizer, Rotary shakers, PCR, Gel documentation system, Tissue culture laboratory, Laminar flow chambers, Digital and film cameras, Fungus culture collection centre, Herbarium, Polyhouse, Botanical garden for teaching and research. Department also subscribes front line national and foreign Journals in Botany. An exclusive computer laboratory with printing and scanning facilities, computers in each laboratory and class room all networked and connected to INTERNET.

d) DST/FIST/Any other:

Department was supported by DST- FIST two times and presently UGC SAP (DRS III).

e) Placement Sources for the Students:

Students of this Department are placed in various teaching institutes within Goa, National laboratories, Universities abroad and Industries.

f) Any other Information:

Some courses are offered through moodle (e-learning platform). Regular field trips to Western Ghats, Coastal belts and visits to Institutes are conducted.

g) List of Faculty & their Specialisations:

Head of the Department: Krishnan, S.

Professor (HAG)

Rodrigues, Bernard F. Ph.D. (Goa University)

Cytogenetics and Plant Breeding, Mycorrhizae, Reclamation of mine wastelands. Documentation of Medicinal Plants, Plant Tissue culture.



Professors

Sharma, Prabhat K. Ph.D. (University of London, UK)

Molecular Plant Stress Physiology, Climatic Changes and Crop Productivity, Bioprospecting.



Janarthanam, Malapati K. Ph.D. (Bharathiar University)

Systematics of Angiosperms, Endemic flora of Western Ghats, Biodiversity.



Kerkar, Vijaya U. Ph.D. (Goa University)

Taxonomy and Ecology of Algae and Pteridophytes.



Krishnan, S. Ph.D. (Madras University)

Plant Histochemistry, Plant Biotechnology and Molecular Biology



Assistant Professors

Bhandari, Rupali R. Ph.D. (Goa University)

Algal Physiology, Biochemistry and Biotechnology.



Jalmi, Siddhi K. Ph.D. (JNU)

Agricultural Biotechnology, Plant development and Environmental Stress, Plant-Microbe Interaction, Cell Signaling.



h) Structure of programmes:

M.Sc. Botany Programme

Scheme of Instruction (Semester System)

(Choice Based Credit System)

COURSE CODE	COURSE TITLE	CREDITS
(CORE COURSES)		
BOC 121	Algae, Bryophytes, Pteridophytes and Gymnosperms	3
BOC 122	Lab in Algae, Bryophytes, Pteridophytes and Gymnosperms	1
BOC 123	Plant Microbiology and Pathology	3
BOC 124	Lab in Plant Microbiology and Pathology	1
BOC 125	Systematics of Angiosperms	3
BOC 126	Lab in Systematics of Angiosperms	1
BOC 221	Internal Morphology and Developmental Biology of Angiosperms.	3
BOC 222	Lab in Internal Morphology and Developmental Biology of Angiosperms	1
BOC 225	Plant Physiology	3
BOC 226	Lab in Plant Physiology	1
BOC 321	Plant Molecular Biology	3
BOC 323	Plant Genetic Engineering	3
BOC 324	Lab in Plant Molecular Biology and Genetic Engineering	2
BOC 421	Cytogenetics and Plant Breeding	3
BOC 422	Lab in Cytogenetics and Plant Breeding	1
(OPTIONAL COURSES)		
A student must choose at least 16 credits from the following		
BOO 121	Techniques and Instrumentation in Botany	3
BOO 122	Lab in Techniques and Instrumentation in Botany	1
BOO 123	Bioinformatics and Chemoinformatics	2
BOO 124	Lab in Bioinformatics and Chemoinformatics	2
BOO 125	Oenology (Wine Science and Technology)	1
BOO 126	Lab in Oenology (Wine Science and Technology)	1
BOO 127	Mine wasteland Management	2
BOO 128	Seed Science and Technology	2
BOO 129	Lab in seed Science and technology	1
BOO 221	Plant animal Interaction	4
BOO 224	Post Harvest Technology for Fruit Crops	2
BOO 225	Ethnobotany	2
BOO 226	Remote sensing: Techniques and applications	2
BOO 227	Lab in Remote sensing: Techniques and applications	1
BOO 329	Applied Phycology: Utilization and Management	3
BOO 322	Plant Biotechnology	3
BOO 323	Lab in Plant Biotechnology	1
BOO 324	Mycorrhizal Biotechnology	2
BOO 325	Lab in Mycorrhizal Biotechnology	1
BOO 326	Plant Histochemistry	2
BOO 327	Lab in Plant Histochemistry	1
BOO 328	Introduction to Paleoflora	1
BOO 436	Marine Phytoplanktons	1
BOO 440	Bioentrepreneurship and Innovation	1
BOO 441	Lab in Bioentrepreneurship and Innovation	1
BOO 442	Mushroom biotechnology	1

BOO 443	Lab in Mushroom biotechnology	1
BOO 447	Ecotourism	2
BOO 448	Lab in Ecotourism	2
BOO 449	Advanced Ecology	3
BOO 450	Lab in Advanced Ecology	1
BOO 501	Fungal Chemistry and Mycoremediation	1
BOO 502	Lab in Fungal Chemistry and Mycoremediation	1
BOO 503	Glycobiology	1
BOO 504	Lab in Glycobiology	1
BOO 505	Fungal Biodiversity, Bioprospecting and Biotechnology	3
BOO 506	Lab in Fungal Biodiversity, Bioprospecting and Biotechnology	1
BOO 507	Mycological Techniques	3
BOO 508	Lab in Mycological Techniques	1
BO DISS	Dissertation	8

M. Phil. (Botany and Plant Biotechnology)

One year M.Phil Programme in Botany and Plant Biotechnology. There will be one compulsory course and two optional courses which students can choose from the options available, according to their specialization.

COURSE CODES	COMPULSORY COURSES	CREDITS
BMC 101	Research Methodology and Techniques	4
	Optional I	
BMO 101	Biotechnology and Applications	4
BMO 201	Advances in Fungal Biology and Biotechnology	
BMO 202	Plant molecular stress physiology	4
BMO 203	Coastal vegetation and management	4
BMO 204	Advances in plant breeding and crop improvement	4
BMO 205	Plant Systematics and Biogeography	4
BMO 206	Developmental Biology of Flowering Plants	4

IMPORTANT: **Optional II** will be in the area of specialization/dissertation.

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3. DEPARTMENT OF MICROBIOLOGY

a) Programme offered and number of student intake:

Programmes	Programmes Offered	Intake	Fees (Rs.)
Established: 1974 (CPIR)	M.Sc. Microbiology	25	12390.00
Code: MI	Ph.D.		12155.00

b) Introduction about the Department:

The Department of Microbiology, Goa University, was started in 1974 under the Centre of Post-Graduate Instruction & Research, affiliated to the University of Bombay. It became a full-fledged department of the then newly founded Goa University in 1985.

The Department was initiated with a Post-Graduate Programme in Microbiology. A second Masters Programme in Marine Microbiology was started in June 2012, having been awarded the programme by the University Grants Commission, Government of India, under the Innovative Programme for 'Teaching and Research in Interdisciplinary and Emerging Areas'. The Department introduced a Master's Programme in Biochemistry in June 2014.

The Department carries out research in thrust areas such as Molecular Microbiology, Marine Microbiology, Microbial Ecology, Environmental Microbiology, Genetic Engineering, Extremophilic Microorganisms and Microbial Bio prospecting for enzymes, antimicrobial metabolites and PHA, with the support of grants from UGC, DOD, DST, DBT, TERI.

c) Major Facilities Available in the Department:

High Pressure Liquid Chromatography; Lyophilisation Unit; Atomic Absorption Spectrophotometer; High speed and Cooling Centrifuges; Gel Electrophoretic units for protein/DNA, Fluorescent, Phase contrast and General Microscopy; Fluorescence and UV-Vis Spectrophotometer; Thermal Cycler; Gas Chromatography; UV Transilluminator; Millipore Ultra Filtration Unit; Waterbath; Incubator-shakers; Spectrofluorimeter; Rheometer; Fermentor; Oxygen Analyser; Gel Documentation Systems; SDS-PAGE & IEF System; Nanodrop spectrophotometer, PCR, Epurator, Freezer (-20° C), Biosafety Cabinet; Anaerobic jars, Cold room.

d) DST/FIST/Any other:

The funding agencies include: UGC, DOD, DST, DBT, MoES, TERI.

The Department has received funding from DBT under the FIST programme for strengthening of teaching and research in Microbiology. The Department was recognized by the MoES as a Centre of Excellence in Marine Microbiology in 2007. UGC supported an Advanced PG Diploma in Marine Microbiology and Technology as well as an innovative M.Sc. Marine Microbiology programme.

e) Placement Sources for the Students:

Research Institutes (Departments of National/State Government, CSIR-National Institute of Oceanography, CCARI-Indian Council of Agricultural Research, National Centre for Polar and Ocean Research, Birla Institute of Technology and Sciences), colleges, food/pharmaceutical and aquaculture industries, diagnostic laboratories, etc.

f) List of Faculty & their Specialisations:

Head of the Department: Garg, Sandeep.

Professor

Garg, Sandeep. Ph.D. (University of Delhi)

Industrial & Medical Microbiology, Microbial Technology, Marine microbiology, Industrial Fermentation, biofertilizers, Agriculture microbiology, Immunology, Ectomycorrhizal fungi, Biopolymers,



Assistant Professors

Charya, Lakshangy. S Ph.D. (Goa University)

General and Environmental Microbiology, Bioremediation, Ectomycorrhizal fungi,



Naik, Milind M. Ph.D. (Goa University)

Environmental Microbiology, Molecular Biology, Agricultural Microbiology, Marine Microbiology.



Salgaonkar, Bhakti B., Ph.D. (BITS Pilani, Goa)

Halophilic Archaea, Extremophilic Microorganisms and their Bioprospecting.



Noronha, Judith M. M.Sc. (Goa University)

Aquatic Virology, Cyanophages and microalgal viruses, Microbial ecology of rice field ecosystems



Velip, Lata G. Ph.D. (Andhra University)

Microbial carbon pump & Climate change impact, Biogeochemistry, Microbial Ecology, Marine microbiology, Science outreach - science for society.



UGC- Faculty (Assistant Professor)

Chaudhari, Pooja D. (UGC-FRP) Ph.D (Actrec Tata Memorial Centre, Mumbai University)

Molecular Biology, Cancer Biology, Biochemistry, small RNA based theranostics.



g) Structure of programmes:

M.Sc. Microbiology Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE CODE	COURSE TITLE	CREDITS
MIC 101 (Core)	Microbial Biochemistry	3
MIC 102 (Core)	Microbial Genetics	3
MIC 103 (Core)	Microbial Taxonomy and Systematics	3
MIC 104 (Core)	Biostatistics	3
MIC 105 (Core)	Practical I	4

Total No. of Credits: 16; Core: 16

SEMESTER II

COURSE CODE	COURSE TITLE	CREDITS
MIC 201 (Core)	Techniques and Instrumentation in Microbiology	3
MIC 202 (Core)	Industrial Microbiology	3
MIC 203 (Core)	Molecular Biology	3
MIC 204 (Core)	Mycology	3
MIC 205 (Core)	Practical II	4

Total No. of Credits: 16; Core: 16

SEMESTERS III & IV

COURSE CODE	COURSE TITLE	CREDITS
MIO 101 (Optional)	Medical Virology	3
MIO 102 (Optional)	Archaea [T]	3
MIO 103 (Optional)	Archaea [P]	1
MIO 104 (Optional)	Marine Microbiology [T]	3
MIO 105 (Optional)	Marine Microbiology [P]	1
MIO 106 (Optional)	Environmental Microbiology and Bioremediation [T]	3
MIO 107 (Optional)	Environmental Microbiology and Bioremediation [P]	1
MIO 108 (Optional)	Genetic Engineering [T]	3
MIO 109 (Optional)	Genetic Engineering [P]	1
MIO 110 (Optional)	Immunology [T]	3
MIO 111 (Optional)	Immunology [P]	1
MIO 112 (Optional)	Extremophilic Microorganisms [T]	3
MIO 113 (Optional)	Extremophilic Microorganisms [P]	1
MIO 114 (Optional)	Research Methodology [T]	1
MIO 115 (Optional)	Research Methodology [P]	1
MIO 116 (Optional)	Microbial Technology [T]	3
MIO 117 (Optional)	Microbial Technology [P]	1
MIO 118 (Optional)	Food Microbiology [T]	3
MIO 119 (Optional)	Food Microbiology [P]	1
MIO 120 (Optional)	Agriculture Microbiology [T]	3
MIO 121 (Optional)	Agriculture Microbiology [P]	1
MIO 122 (Optional)	Medical Microbiology and Epidemiology [T]	3
MIO 123 (Optional)	Medical Microbiology and Epidemiology [P]	1
MIO 124 (Optional)	Marine Microbial Interactions [T]	3
MIO 125 (Optional)	Marine Microbial Interactions [P]	1
MIO 201 (Optional)	Field Trip/Study Tour [P]	1
MIO 202 (Optional)	Training in an Institute/ Industry/ University	1
MID (Optional)	Dissertation	8

Under Optional Courses:

The theory course is a prerequisite for any practical course.

Students of Microbiology and Marine Microbiology Programmes shall be required to take both Theory and Practical Courses under a given Course Title.

Total No. of Credits: 32; Optional: 32

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4. DEPARTMENT OF ZOOLOGY

a) Programmes offered and number of student intake:

Department of Zoology	Programmes Offered	Intake	Fees (Rs.)
Established: 1990 Code: ZO	M.Sc. Zoology	38	12390.00
	M.Phil.		13980.00
	Ph.D.		12155.00

b) Introduction about the Department:

DST-FIST/UGC-Special Assistance Programme (SAP) Sponsored Department

The Department offers Masters Programme in Zoology with an intend to develop aptitude for learning about the Zoology and significance of fauna ranging from single cell to multi-cellular systems. Keeping in mind the Departmental thrust area "Biodiversity and Comparative Animal Physiology", the current Post graduation curriculum has been totally restructured. A precise balance between the classical courses and modern biological courses has been made to introduce and emphasize the skill based programmes with an Internship experiences. Apart from the classical topics on Animal Sciences namely, Taxonomy and Systematics; Biodiversity; Anatomy of Non chordates and Chordates, this syllabus also covers topics on various aspects of Life Processes such as Animal Physiology, Endocrinology, Developmental Biology and Molecular Biology. The restructured M. Sc. programme also focuses on various application based or skilled based courses such as Fishery Sciences and Fish Farm Management, Food Processing, Environmental Physiology, Neurophysiology, Stem Cell Biology, Herpetology, Wild Life Biology and Ethology. Besides, the courses like Immunology, Cell Biology, Animal Genetics, Biological Techniques, Biostatistics, Vector Biology programs also represent this restructured syllabus. This programme through the dissertation will also help the students to understand the basic principles of nature and will also provide scope for hands-on experience to experiment with nature /animals and thereby enable them to develop aptitude for research in various allied fields of animal sciences. This curriculum will also enable them to overcome several day to day problems faced by our society by providing them with some workable solutions.

c) Major facilities available in the Department:

Environmental Chamber, Animal Tissue Culture facility, Animal house and Aquarium facility, Cold Room, Ultra Centrifuge machine, Trinocular Research Microscope, Fluorescent Microscope, Spectro-fluorophotometer, UV-Visible Spectrophotometer, Nano-drop Spectrophotometer, HPLC, Thermal Cycler, Gel document system, GC-Mass, RT PCR Bio Safety cabinet etc.

d) DST/FIST/Any other:

The Department received support from DST- FIST (two times) and UGC-SAP grants.

e) Any other information:

The Department received a Global Partnership Research Grant on Aquaculture through BBRC(UK)-DBT(India).

f) List of Faculty & their Specialisations:

Head of the Department: Roy, Ramballav.

Professor

Roy, Ramballav. Ph. D. (Visva Bharati University)
Environmental Physiology, Lipid Biochemistry, Nutritional Biochemistry

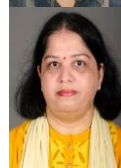


Assistant Professor

Sawant, Nitin S. Ph.D. (Goa University)
Ecology, Conservation Biology, Wildlife Biology, Biodiversity



Dessai, Shanti N., Ph.D. (Goa University)
Animal Physiology, Animal Cell Culture



D'Costa Avelyno H., Ph.D. (Goa University)
Ecotoxicology, Toxicology



Desai Shirodkar, Minal Ph.D. (Goa University)
Avian Ecology



Kundaikar, Gandhita V., M.Sc. (Goa University)
Genotoxicity



Shaikh, Shamshad Bi. Ph.D (Goa University)
Nanotoxicology, Animal Biotechnology, Animal Physiology



g) Structure of programmes:

M.Sc. Zoology Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

CORE COURSES		
Semester I and II (Each Semester 16 credits)		
COURSE CODE	COURSE TITLE	CREDITS
ZOC 101	Principles of Animal Systematic	3
ZOC 102	Anatomy of Non- Chordates	3
ZOC 103	Animal Biochemistry	3
ZOC 104	Molecular Biology	3
ZOC 105	Laboratory Course 1 (Field work included)	4
ZOC 201	Comparative Anatomy of Vertebrates	3

ZOC 202	Comparative Physiology of Animals	3
ZOC 203	Advanced Developmental Biology	3
ZOC 204	Ecology	3
ZOC 205	Laboratory Course 2 (Field work included)	4
	OPTIONAL COURSE	
	Semester III and IV (Each Semester 16 Credits)	
	Cluster A: Aquaculture	
ZOO 301	Fishery Biology	3
ZOO302	Fish Farm Management	3
ZOO 303	Fish Processing	3
ZOO 304	Laboratory Course on Aquaculture (1 month Internship included)	3
	Cluster B: Life Processes	
ZOO 305	Environmental Physiology	3
ZOO 306	Neurophysiology	3
ZOO 307	Stem Cell Biology	3
ZOO 308	Laboratory Course on Life Processes (1 month Internship included)	3
	Cluster C: Field Biology	
ZOO 309	Ornithology	3
ZOO 310	Herpetology	3
ZOO 311	Wild Life Conservation & Management	3
ZOO 312	Laboratory course on Field Biology (1 month Internship included)	3
NOTE	STUDENT HAS TO OPT ANY ONE CLUSTER.	12 credits
ZOO 313	Toxicology (Theory and Practical)	3 + 1
ZOO 314	Advanced Cell Biology (Theory and Practical)	3 + 1
NOTE	STUDENT HAS TO OPT ANY ONE	4 credits
ZOO 401	Animal Genetics	3
ZOO 402	Biodiversity	3
	INTERDISCIPLINARY COURSES	
ZOO 403	Evolutionary Biology	2
ZOO 404	Endocrinology	2
ZOO 405	Biostatistics	2
ZOO 406	Vector Biology	2
ZOO 407	Histology and Histochemistry	2
ZOO 408	Helminthology	2
ZOO 409	Ethology	2
ZOO 410	Biological Techniques	2
ZOO 411	Introduction to Biological database	2
ZOO 412	Scientific Communications	2
ZOO 413	Immunology	2
ZOO 414	Nutritional Biochemistry	2

NOTE	STUDENT HAS TO OPT ANY FIVE	10 credits
ZOO 415	Dissertation	8
NOTE	Dissertation should be for the entire Semester III and Semester IV. It is in lieu of 4 interdisciplinary courses, equivalent to 8 credits.	

M. Phil Programme:

SEMESTER – I

Paper 1 - Research Methodology (Compulsory)

Paper 2 & 3: Optional Courses: A student has to take only two such courses from the following:

Advanced Genetic Toxicology

Fish and Fisheries

Membrane Biochemistry and Nutritional Biochemistry

Tissue Culture

Zooplankatology

Medical Entomology

Contact hours for each course is 60 hrs.

SEMESTER – II

Paper 4: Dissertation

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SCHOOL OF CHEMICAL SCIENCES

Dean: **Nadkarni, Vishnu S.**



Vice-Dean (Academic): **Srinivasan, B.R.**



Vice-Dean (Research): **Tilve, Santosh G.**



a) Programmes offered and number of student intake:

School of Chemical Sciences (Established Year: 2019) Formerly Department of Chemistry, Established: 1966 (CPIR)		
Programmes Offered	Intake	Tuition Fee (Rs.)
M.Sc. Chemistry Codes: AC /IC/OC/PC/HC	100	12390.00
M.Sc. Biochemistry Established: 2014, Code: BC	25	88200.00
Ph.D.		12155.00

b) Introduction about the programmes:

M.Sc. and Ph.D in Chemistry

The School offers two year M.Sc. (64 credits) program in Organic, Physical, Inorganic, and Analytical Chemistry. The research work leading to Ph.D. degree in the above subjects encompasses various domains of chemical research with emphasis on synthesis of natural products, developments of reagents for organic synthesis, synthesis and application of polymers and nanocomposites, synthesis of pure and mixed metal oxide nanoparticles and study of their solid state properties as well as applications such as gas sensing and catalysis. The research extends further into computational and theoretical chemistry, synthesis of coordination complexes as models for biological systems, development of catalysts/ electrocatalysts and their use in kinetics evaluation for various fundamental processes related to energy and environment.

c) Major facilities available in the School:

Instrumental Facilities: NMR spectrophotometer(400 MHz), Single Crystal XRD, , LC-MS, Atomic Force Microscope (AFM), Vibrating Sample Magnetometer (VSM), Automated Gas Sorption Analyzer, Thermal Analyzer, Electrochemical Workstation, Gel permeation chromatograph, IR, UV-Vis., Raman & Photo-Luminescence Spectrophotometers, CHNS Analyzer, HPLC, Flash chromatograph, Gas Chromatograph, Ball Mill, Polarimeter, LCQR meter, Keithley Electrometers, High temperature A.C. Susceptibility etc.

d) DST/FIST/Any other:

School of Chemical Sciences: Formerly Department of Chemistry is supported by DST-FIST and UGC-

SAP (DSA – I) programs.

e) Placement Sources for the Students:

Students after completing their M.Sc in Chemistry are absorbed in Industries, R & D's, academic institutions, Government jobs. Students also go for higher studies (Ph.D or B.Ed) courses. Ph.D degree holders find the positions in Industries, R & D's, academic institutions, Government jobs and foreign Universities as Post-doctoral Fellows

f) Any other Information:

School of Chemical Sciences has a vibrant Alumni Association formed in 2006 with the name "Chemistry Department Faculty and Alumni Association (CDFAA)" which is involved in conducting various programmes in association with the School of Chemical Sciences besides helping financially "Economically Backward Needy Meritorious Students" pursuing their post-graduation in Chemistry at the School of Chemical Sciences, Goa University.

g) List of Faculty and their Specialisations:

Professor (HAG)

Tilve, Santosh G. Ph.D. (University of Pune)
Synthetic Organic Chemistry.



Professors

Srinivasan, B. R. Ph.D. (IIT Kanpur)
Synthetic Inorganic Chemistry.



Nadkarni, Vishnu S. Ph.D. (Bombay University)
Synthetic Organic Chemistry and Polymer Chemistry.



Shirsat, Rajendra N. Ph.D. (University of Pune)
Theoretical and Computational Chemistry.



Shet Verenkar, Vidhyadatta M. Ph.D. (Goa University)
Solid State Chemistry and Gas Sensors.



UGC-Faculty

Professor

Bhosale, Sheshnath V. Ph.D. (Freie Universitat, Berlin)
Supramolecular Chemistry



Associate Professors

Patre, Rupesh E., Ph.D. (Goa University)

Synthetic Organic Chemistry, Natural Products, Flow Chemistry, Green Chemistry, Analytical Chemistry, Process development



Porob, Digamber G. Ph.D. (IISc, Bangalore)

Luminescent Materials, Crystallography, Materials Sustainability, Size Controlled Materials



Assistant Professors

Dhuri, Sunder N. Ph.D. (Goa University)

Coordination and Bioinorganic Chemistry



Morajkar, Pranay P. Ph.D. (University of Lille 1- Science and Technology France)

Reaction Kinetics, Kinetic Modelling, Laser diagnostics.



Girkar, Siddhali V. M.Sc. (Goa University)

Organic Chemistry



Bugde, Sandesh T. Ph.D. (Goa University)

Synthetic Organic Chemistry, Asymmetric Organocatalysis



Kunkalekar, Rohan K. Ph.D. (Goa University)

Catalysis, Solid State Chemistry, Nano-Material synthesis



Kadam, Hari K. Ph.D. (Goa University)

Synthetic Organic Chemistry, (Heterocyclic Chemistry, Organic Methodologies, Cross coupling reactions) Green Chemistry, Medicinal Chemistry, Continuous Flow Chemistry, Analytical Chemistry, Method Development, (HPLC, GC).



Kundaiker, Savita A., Ph.D. (Goa University)

Polyoxometalate Chemistry, Coordination compounds, Analytical Chemistry, Catalysis.



Volvoikar, Prajesh S. Ph.D. (Goa University)

Synthetic Organic Chemistry, (Heterocyclic Chemistry, Organic Methodologies, Cross coupling reactions, Cross dehydrogenative coupling) Medicinal Chemistry, Process development and optimization, Analytical Chemistry, Method Development(HPLC, GC).



Gobre Vivekanand V., Ph.D. (Fritz-Haber-Institut der Max-Planck-Gesellschaft, Berlin-Germany)

Theoretical chemistry, Intermolecular interactions, Materials science, Programming models, Parallel computing



Nagvenkar, Anjali P., Ph.D. (Bar-Ilan University, Israel)

Electrochemistry, Semiconductor Colloidal Nanocrystals, Colloidal Chemistry, Materials for Energy Applications.



Naik, Diptesh G., Ph.D. (Goa University)

Monomer/ Polymer synthesis, Material Chemistry, Radiation dosimetry, Polymeric materials, Radiation detectors.



Chari, Vishnu R., M.Sc. (Goa University)

Computational Chemistry: Electronic structure calculations, Electrochemistry.



Deshpande, Kanchanmala B., Ph.D. (BITS Pilani, Goa)

Bio-analytical Chemistry, Sensing and remediation of toxic analytes



Kharangate, Amrita P., Ph.D. (Goa University)

Microbiology, Biochemistry, Nanotechnology



Barretto, Delicia A., Ph.D. (Karnatak University)

Probiotics, Endophytic research, Bioprospecting, Biochemistry



Torney, Prachi S., Ph.D. (Goa University)

Organic Synthesis and Methodologies, Heterocyclic and Medicinal Chemistry, Domino Reactions, Photocatalysis, Analytical Method Development, Biochemistry



Post-Doctoral Fellow

Deshpande Megha S., Ph.D. (University of Pune)

Bio-inorganic chemistry



DST-INSPIRE Faculty

Dey, Sandeep K. Ph.D. (IIT Guwahati)

Hydrogen bonded supramolecular capsules and metal organic cages, Anion receptors and ion-pair receptors.



h) Structure of programmes:

M.Sc. Chemistry Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

COURSE CODES	SEMESTER I & II (CORE COURSES)	CREDITS
ACC 401	Concepts in Analytical Spectroscopy	3
ACC 402	Laboratory Course in Analytical Chemistry	2
ICC 401	General Inorganic Chemistry	3
ICC 402	Laboratory Course in Inorganic Chemistry	2
OCC 401	Structure, reactivity, stereochemistry and reaction mechanism	3
OCC 402	Laboratory Course in Organic Chemistry	2
PCC 401	General Physical Chemistry	3
PCC 402	Laboratory Course in Physical Chemistry	2
Semester I & II (Optional Courses)		
ACO 401	Analytical Techniques	3
ICO 401	Topics in Inorganic Chemistry & Environmental Chemistry	3
OCO 401	Synthetic Organic Chemistry – I	3
PCO 401	Topics in Physical Chemistry	3

Semester III & IV (CORE PAPERS)		
ANALYTICAL CHEMISTRY		
ACC 501	Fundamentals of Chemical Analysis	3
ACC 502	Techniques in Chemical Analysis	3
ACC 503	Separation Techniques	3
ACC 504	Spectral methods of analysis	3
ACC 505	Experiments in Analytical Chemistry	3
INORGANIC CHEMISTRY		
ICC 501	Coordination and Organometallic Chemistry	3
ICC 502	Materials Chemistry	3
ICC 503	Group Theory and Spectroscopy	3
ICC 504	Selected Topics in Inorganic Chemistry-I	3
ICC 505	Experiments in Inorganic Chemistry	3
ORGANIC CHEMISTRY		
OCC 501	Organic Spectroscopy	3
OCC 502	Reaction Mechanisms, Stereochemistry and Asymmetric Synthesis	3
OCC 503	Synthetic Methods in Organic Chemistry	3
OCC 504	Pericyclic and Organic Photochemical Reactions	3
OCC 505	Organic mixture separation and identification	3
PHYSICAL CHEMISTRY		
PCC 501	Quantum Chemistry and Statistical Thermodynamics	3
PCC 502	Thermodynamics and Reaction Kinetics	3
PCC 503	Electrochemistry and Surface Studies	3
PCC 504	Group Theory and Spectroscopy	3
PCC 505	Experiments in Physical Chemistry	3
PHARMACEUTICAL CHEMISTRY		
HCC 501	Pharmaceutical Chemistry II	3
HCC 502	Drug Product Formulation And Development	3
HCC 503	Drug Design And Development	3
HCC 504	Drug Quality And Regulatory Affairs	3
HCC 505	Laboratory Course In Pharmaceutical Chemistry	3

	OPTIONAL PAPERS (semester III & IV)	
ANALYTICAL CHEMISTRY		
ACO 501	Bioanalytical and Forensic Chemistry	3
ACO 502	Calibrations and Validation	3
ACO 503	Advanced Mass Spectrometry	3
ACO 504	Environmental control and chemical analysis	3
ACO 505	Problems on Combined Spectroscopy	3
ACO 506	Chemometrics	3
INORGANIC CHEMISTRY		
ICO 501	Bioinorganic Chemistry	3
ICO 502	Catalysis: The basic Chemical concepts	3
ICO 503	Chemistry of P-Block Elements	3
ORGANIC CHEMISTRY		
OCO-501	Chemistry of Natural Products	3
OCO-502	Organometallic Chemistry	3
OCO-503	Introduction to Medicinal Chemistry	3
OCO-504	Retrosynthesis in Organic Chemistry	3
OCO-505	Heterocyclic Chemistry	3
OCO-506	Introduction to Polymer Chemistry-I: Basic Concepts	3
OCO-507	Introduction to Polymer Chemistry-II: Synthesis of Polymers and Processing	3
OCO-508	Selected experiments in Organic Chemistry-I	4
OCO-509	Chemistry of Life	3
PHYSICAL CHEMISTRY		
PCO-501	Solid State Chemistry I: Concepts and applications	3
PCO-502	Catalysis: Fundamentals and Applications	3
PCO-503	Solid State Chemistry II: Characterization of solid materials	3
PCO-504	Chemical kinetics and reaction dynamics	3
PCO-505	Colloids and Surface Science	3
PCO-506	Nanoscience: Concepts and Applications	3
PHARMACEUTICAL CHEMISTRY		
HCO-501	Pharmacological and Toxicological Screening Techniques	3
HCO-502	Calibration and Validation	3
HCO-503	Polymers in Pharmaceuticals and novel drug delivery systems	3
HCO-504	Biopharmaceutics	3
HCO-505	Pharmaceutical Technology	3
HCO-506	Pharmaceutical Stability	3
HCO-507	Laboratory Course in Natural Product Analysis	3
HCO-508	Laboratory Course in Drug Product Formulation and Development	4
HCO-509	Laboratory Course in Drug Design, Molecular Docking and Patents	2
HCO-510	Laboratory Course in Quality Control and Quality Assurance	4
GENERAL OPTIONAL		
CGO 500	Dissertation (as given in OA 18A)	8
CGO 501	Selected Experiments in Chemistry	8

Dissertation, if opted for, is equivalent to two optional laboratory courses

Total No. of Credits: 64; Core: 35; Optional: 29

M.Sc. Biochemistry Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

SEMESTER I

COURSE CODE	COURSE TITLE	CREDITS
BCC 101 (Core)	Fundamentals of Biochemistry	3
BCC 102 (Core)	Enzymology	3
BCC 103 (Core)	Analytical Biochemistry - I	3
BCC 104 (Core)	Biostatistics	3
BCC 105 (Core)	Practical I	4

Total No. of Credits: 16; Optional: 16**SEMESTER II**

COURSE CODE	COURSE TITLE	CREDITS
BCC 201 (Core)	Clinical Biochemistry	3
BCC 202 (Core)	Molecular Biology	3
BCC 203 (Core)	Analytical Biochemistry – II	3
BCC 204 (Core)	Immunology- I	2
BCC 205 (Core)	Membrane Biochemistry	1
BCC 206 (Core)	Practical II	4

Total No. of Credits: 16; Optional: 16**SEMESTERS III & IV**

COURSE CODE	COURSE TITLE	CREDITS
BCO 101 (Optional)	Hormones	2
BCO 102 (Optional)	Neurochemistry	2
BCO 103 (Optional)	Genetic Engineering [T]	3
BCO 104 (Optional)	Genetic Engineering [P]	1
BCO 107 (Optional)	Microbes In Health and Disease [T]	3
BCO 108 (Optional)	Microbes In Health and Disease [P]	1
BCO 109 (Optional)	Drug Metabolism	1
BCO 110 (Optional)	Immunology - II	3
BCO 111 (Optional)	Biochemistry of Environmental Pollution and Remediation [T]	3
BCO 112 (Optional)	Biochemistry of Environmental Pollution and Remediation [P]	1
BCO 113 (Optional)	Industrial Biochemistry [T]	3
BCO 114 (Optional)	Industrial Biochemistry [P]	1
BCO 115 (Optional)	Frontiers in Biotechnology [T]	3
BCO 116 (Optional)	Frontiers in Biotechnology [P]	1
BCO 117 (Optional)	Bioprospecting	4
BCO 118 (Optional)	Nanobiotechnology [T]	3
BCO 119 (Optional)	Nanobiotechnology [P]	1
BCO 120 (Optional)	Pharmaceutics [T]	3
BCO 121 (Optional)	Pharmaceutics [P]	1
BCO 122 (Optional)	Research Methodology [T]	3
BCO 123 (Optional)	Research Methodology [P]	1
BCO 126 (Optional)	Nutrition and Food Biochemistry [T]	3
BCO 127 (Optional)	Nutrition and Food Biochemistry [P]	1
BCO 201 (Optional)	Field Trip/Study Tour [P]	1
BCO 202 (Optional)	Training in an Institute/ Industry/ University	1
BCD (Optional)	Dissertation	8

Under Optional Courses:




The theory course is a prerequisite for any practical course.

Students of M.Sc. Biochemistry shall be required to take both Theory and Practical Courses under a given Course Title.

Total No. of Credits: 32; Optional: 32

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GOA BUSINESS SCHOOL

Dean: Dayanand, M.S.	
Vice-Dean (Academic): Subhash, K. B.	
Vice-Dean (Research): Sudarsan, P.K.	

Goa Business School

Established: 2019

Programmes Offered

1. Master of Arts in Economics – MA (Economics)
2. Master of Commerce - (M.Com)
3. Masters of Business Administration (Financial Services) – MBA (FS)
4. Masters of Business Administration – MBA
5. Integrated MBA (Hospitality & Tourism)
6. Masters of Business Administration (Executive)–MBA (Exec)
7. Masters of Computer Applications – MCA
8. Integrated M.Sc.
9. M.Phil/ Ph.D.

Goa University established the Goa Business School (GBS) in April 2019 by integrating four basic disciplines - Management, Commerce, Economics and Computer Science & Technology. In the academic year 2019-20, the school will continue to offer seven existing programs under the base disciplines. In the near future, GBS plans to offer new interdisciplinary programs keeping in view the faculty strength and the complementary nature of these disciplines.

The Goa Business School comprises of four disciplines:

1. **Management Studies**
2. **Economics**
3. **Commerce**
4. **Computer Science & Technology**

1. MANAGEMENT STUDIES

a) Programmes offered and number of student intake:

Programme	Programmes offered	Intake	Tuition Fee (Rs.)
Established: 1988 Code: MB	Master of Business Administration (MBA)	75	119364.00
Established: 2018 Code: EM	Master of Business Administration – Executive	38	350000.00 (for 3 years)
Established: 2011 Code: HT	Integrated Master of Business Administration (IMBA)	38	80262.00
	M.Phil		12390.00
	Ph.D.		12155.00

b) Information about the programmes:

i. Master of Business Administration(MBA):

The programmes provide education to prepare students for a career in management. The programmes are also involved in creating and disseminating knowledge on management through research and consulting in the services and manufacturing sectors.

Admission: The admission to MBA is based on **CMAT conducted by NTA or XAT conducted by XLRI**, work experience, group discussions and personal interview.

ii. Master of Business Administration – Executive:

MBA (Executive) program is offered as a joint collaborative program of the faculty of different subject areas including Management, Commerce, Economics and Computer Sciences, to enable participants to get the benefits of synergy of the different resources essential for success in corporate life. It provides an opportunity for continued education for people with basic graduation as qualification and a minimum of two years work experience.

Designed as a week day program, classes will be scheduled from 6.15 pm to 8.45 pm every Monday to Friday. It is designed to facilitate learning through interaction with different stakeholders; using participant centered learning tools inclusive of Case Studies, Role Plays, Simulations and a range of activities. Course Management software is used extensively to share resources, for assessments, for feedback, etc. Opportunities are provided to learn through live projects in different courses, and experienced faculty provided to facilitate the process.

MBA (Executive) program is divided into nine terms over three years. Academic courses are planned in the first seven trimesters, and the last two trimesters are designed for an industry project (that can be done in the organization where the participant is currently employed) and faculty mentors will be allocated to each student participant to work on them.

Course Structure:

The course is designed to provide a comprehensive outlook to Management Education, preparing a participant to grow in management career and to provide wholesome exposure to managerial life. A combination of Core Courses, Soft skills, Optional Courses and Non – Business courses will be offered through the academic terms. These courses have been planned to meet industry requirements, and an array of options are made available to participants to choose electives in different areas. Each course is designed with inputs from the industry, and the curriculum has been carefully designed to include latest developments.

iii. Integrated Master of Business Administration (HOSPITALITY, TRAVEL AND TOURISM):

Given the potential for interesting and rewarding careers in the tourism industry many young people are looking for suitable programmes which will help prepare them for careers in

management within the tourism and hospitality industries. Keeping in mind the resources, the demand and the contextual necessity in relation to the Hospitality Travel and Tourism Industry, Goa University has started a 5 year integrated MBA- Hospitality, Travel and Tourism program with an option to exit after BBA, from July 2011.

Eligibility: A pass in the XIIth standard or 3 yrs Govt. approved Diploma

Selection Process: Admission for the **40** seats based on **XII Standar Score, Entrance Test, GD, PI conducted by Goa University.**

c) Major Facilities available of the programmme:

Case Study methods of Harvard/IIM type, Formal credit courses in soft skills/contemporary issues, 100% continuous assessment, Well placed alumni help with placement, Online journal database, Online industry and company database, Online interactions through course management software, Regular interactions with executives, Industry internships, Mock interviews by executives, Visiting faculty with IIM/industry background, Exchange program with Germany, Wireless connectivity for laptops, Opportunity to opt for courses from other disciplines, Internet, Audiovisual facilities and Book Bank.

d) Placement Sources for the students:

Campus Placement wherein various companies visit the school.

e) List of Faculty & their Specialisations:

Professors

Dayanand, M. S. Ph.D. (Goa University)
Marketing & Tourism Management.



Hegde Desai, Purva. A.C.A., Ph.D. (Goa University)
Finance, Marketing



Borde, Nilesh. Ph.D. (Goa University)
Finance.



Sankaranarayanan K.G. Ph.D. (University of Calicut)
Finance, Marketing, HR, Capital Market, Tourism and Hospitality



Associate Professor

Rajanala, Nirmala. Ph.D. (Andhra University)
Marketing, Human Resources.



Assistant Professors

Khandolkar, Teja T. MBA (Goa University)
Marketing



Velip, Suraj Pavto. M.Com. (Goa University)
Accounting and Finance



D'Souza, Kevin S. M.T.M. (IGNOU)
Hospitality, Food Sector



Thomson, Albino. M.Sc. (Global Open University)
Hotel Management, Rooms Division



f) Structure of different programmes:

Masters in Business Administration (MBA) Programme

Scheme of Instruction (Semester System)

(Choice Based Credit System)

TERM I

COURSE CODES	COURSE TITLES	CREDITS
MBCB015	IT Skills and MIS	02
MBCB009	Production Operations Management	04
MBCB002	Economics	04
MBCB013	Management Accounting	02
MBCS001	Communication Skills Oral + Written +GD + Presentation	04
MBCB004	Legal Aspects of Business	02
MBON001 MBON003	Optional Non Business Course 1 Foreign Language Language - German Portuguese	04
	TOTAL	22

TERM II

COURSE CODES	COURSE TITLES	CREDITS
MBCB005	Marketing Management	04
MBCB006	Finance Management	04
MBCB001	Management Process and Organisational Behaviour	04
MBCB014	Strategic Management	02
MBCS002	Interview facing skills and Mock Interview	02
MBCB012	Business Research Methods	02
MBCB008	Human Resource Management	04
MBON002 MBON004	Optional Non Business Course 2 Foreign Language Language- German Portuguese	02
	TOTAL	24

TERM II SUMMER INTERNSHIP (April to June)

MBIR001	Summer Internship Report	6 Credits
MBIS001	Summer Internship Seminars	2 Credits
TOTAL TERM II		30

TERM III Optional Business Courses

Courses	Offered
Finance	20
Marketing	20
Human Resource	20
General Management	04

To be completed by students – 24 Credits

TERM IV FINAL INTERNSHIP (From December to March)

MBIR002	Final Internship Report	18 Credits
MBIS002	Final internship Seminars	2 Credits

TOTAL CREDITS (24+22+24+20) = 98 credits

Note:

*Courses and their allocation across terms are subject to change.

*Functional electives (such as finance, marketing, human resources, operations and systems) and industry electives (such as hospitality and tourism, IT enabled services) shall be offered within the constraints of students' demand and the resources available with the department from time to time.

MBA (EXECUTIVE) PROGRAMME

Course Category	MBA (for Executives)- Credits
Core Business Courses	34
Soft Skills Courses	04
Optional Business Courses	20
Optional Non-Business Courses	06
Internships/ Project in Organisations and Report	08
Internship/ Project Seminar	04
Total Credits (Each Credit = 15 teaching hours)	76

Term-wise Distribution of Credits – in Trimester System

Course Category	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6	Term 7	Term 8	Term 9	Total
Core	8	8	4	0	-	-	-	-	-	20
Soft skills	2	2								04
Optional Business			4	8	6	8	8	-		34
Optional Non Business			2	2	2					06
Internship Report								-	8	08

Internship Seminar								4	-	04
Total	10	10	10	10	08	08	08	04	08	76

TERM I (Remaining terms structure will be subsequently uploaded on website)

Course Codes	Course Titles	CREDITS
EMC 001	Management Process & Organisational Behaviour	02
EMC 002	Human Resource Management	02
EMC 003	Financial Management	02
EMC 004	Marketing Management	02
EMC 005	Communication Skills – Soft Skills	02

INTEGRATED MBA (HOSPITALITY, TRAVEL AND TOURISM)

Scheme of Instruction (Semester System)

(Choice Based Credit System)

TERM 1

COURSE CODES	COURSE TITLES	CREDITS
HTC 102	Food & Beverage Service 1	04
HTC 101	Food Production 1	04
HTC 109	Front Office Operation 1	04
HTC 106	Accommodation Operations Practical 1	02
BBCS001	Oral Communication Skills	02
HTO103	Tourism Products of India	02
HTN 105	Hygiene and Sanitation	02
BBON030	Individual and society	02
	Total	22

TERM 2

COURSE CODES	COURSE TITLES	CREDITS
HTC105	Food & Beverage Practical 1	04
HTC104	Food Production Practical 1	04
HTC112	Front Office Practical	02
BBCS002	Written Communication	02
BBCB005	Management Process	02
BBCB012	Financial Statement Analysis 1	02
HTO112	Food Science and Nutrition	02
HTN103	Appreciation and Understanding of Theatre	04
	Total	22

TERM 3

COURSE CODES	COURSE TITLES	CREDITS
HTC 108	Food & Beverage Service Theory 2	04
HTC 103	Accommodation Operation Theory 1	04
HTC 107	Food Production Theory 2	04
BBCS003	Presentation Skills	01

BBCS006	Negotiation Skills	01
HTO 102	Tourism Industry	02
BBCB001	Marketing Management I	02
BBCB041	Case Analysis 1	01
BBCB042	Case Analysis 2	01
HTN 101	Character Development	04
	Total	24

TERM 4

COURSE CODES	COURSE TITLES	CREDITS
HTC 111	Food and Beverage Service Practicals 2	02
HTC 110	Food Production Practical 2	04
HTC 106	Accommodation Operation Practical 1	02
HTC116	Front Office operations 2	02
BBCS006	Etiquettes	01
BBCS007	Time Management	01
BBON030	Psychology	02
	Total	14

Summer Internship Internship Report 9 Credits(HTR101), Seminars 2 Credits (HTS101)	April to June 11 Credits
TOTAL TERM 4	26

TERM 5

COURSE CODES	COURSE TITLES	CREDITS
HTC113	Food production Theory 3	04
HTC 118	Food and Beverage Service Practicals 3	02
BBCS004	Interview Facing skills	02
BBCB001	Marketing Management I	02
BBCB003	Human Resource Management 1	02
BBCB035	Environmental Management I	02
BBCB047	Case Writing & Analysis 1	01
BBCB048	Case Writing & Analysis 2	01
BBON025	Cultural Heritage of Goa 1	02
BBON021	Film Appreciation	02
	Total	20

TERM 6

COURSE CODES	COURSE TITLES	CREDITS
BBCS009	Emotional Intelligence	02
HTO115	Food Around the World	02
BTOB 006	Entrepreneurship in Tourism	02
HTO114	Travel Writing	02
HTN104	Diet Meal Planning	02

BBON008	Creative Writing	02
	Total	12

Summer Internship Internship Report 9 Credits(HTR201), Seminars 2 Credits (HTS201)	April to June 11 Credits
TOTAL TERM 6	23

TERM 7

COURSE CODES	COURSE TITLES	CREDITS
HTC 114	F&B Service Theory 3	04
HTC 203	Economics of Tourism	04
HTC123	MIS F&B	02
HTC207	International Tourism	02
HTC202	Tour Operations Management	02
MBCS001	Communication Skills	04
MBCS002	Interview Facing Skills & Mock Interviews	02
MBON001	German Language	04
	Total	24

TERM 8

COURSE CODES	COURSE TITLES	CREDITS
HTC 103	Accommodation Operation 2	04
HTC 120	Bakery & Confectionery	04
HTC 119	Food and Beverage Management	04
MBCB012	Business Research Methodology	02
BBCB008	Strategic Management	02
HTC206	Travel Agency Management	02
HTC204	Marketing of Hospitality & Tourism	02
HTN102	Power of Positive Thinking	02
	Total	22

Summer Internship Internship Report 6 Credits(HTR 301), Seminars 2 Credits (HTS 301)	April to June 08 Credits
TOTAL TERM II	30

TERM 9

TERM III Optional Business Courses

COURSES	OFFERED
Tourism	20
Marketing	20
Human Resource	20
General Management	04

To be completed by students – 24 Credits

TERM 10

COURSE CODES	COURSE TITLES	CREDITS
HTR / HTS 401	Final Internship	20

	Core Business	Core Soft Skill	Elective Business	Non Business	Internship Report & Seminar	Total Credits
BBA	52	12	30	24	22	140
MBA	34	06	24	06	28	98
IMBA	86	18	54	30	50	238

2. ECONOMICS**a) Programmes offered and number of student intake:**

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1968 (CPIR)	M.A. Economics	63	6205.00
Code: EC	M.Phil.		12390.00
	Ph.D.		12155.00

b) Introduction about the Programme:

The M.A. Programme provides a strong theoretical overview with an emphasis on quantitative techniques. Students are offered a wide range of elective courses including Econometrics, Environmental Economics, Financial Economics and Human Resource Development. In the recent years the Doctoral Programme has attracted researchers in Labour Economics, International Economics, Macro Economics and Environmental Economics. Faculty members have a track record of publishing, undertaking sponsored research projects and consultancy from national and international agencies.

c) List of Faculty & their specialisations:*Professors*

Noronha, Sylvia M. Ph.D. (Bombay University)

Labour Economics and Industrial Relations, Development Economics



Sudarsan, P. K. Ph.D. (IIT Bombay)

International Economics and Econometrics



Mukhopadhyay, Pranab. Ph.D. (JNU)

Macro Economics, Environmental Economics.



Associate Professor

Sarath Chandran, B.P. Ph.D. (Goa University)

International Economics



Assistant Professors

Gaude, Heena Subrai M.A. (Goa University)

Agricultural Economics.



Kavthankar, Avina Atchut M.A. (Goa University)

Public Finance, Agricultural Economics



d) Structure of programme:

M.A. Economics Programme

Scheme of Instruction (Semester System)

(Choice Based Credit System)

COURSE CODES	COURSE TITLES	CREDITS
CORE COURSES		
ECC 111	Microeconomics – I	4
ECC 211	Microeconomics – II	4
ECC 112	Macroeconomics – I	4
ECC 212	Macroeconomics – II	4
ECC 113	Public Economics	4
ECC 114	Development Economics	4
ECC 115	Mathematics For Optimization	4
ECC 116	Statistics For Economic Analysis	4
OPTIONAL COURSES		
ECO 117	Labour Economics	4
ECO 118	International Relations and Social Security	4
ECO 119	Financial Economics	4
ECO 120	Human Resource Management and Development	4
ECO 121	Agricultural Economics	4
ECO 122	Agricultural Development in India	4
ECO 123	Indian Public Finance	4
ECO 124	Theories of Economics Growth	4

ECO 125	Environmental Economics	4
ECO 126	Introduction to Econometrics	4
ECO 127	Options: Theory and Practice	4
ECO 128	International Trade and Globalisation	4
ECO 129	International Finance	4
ECO 226	Advanced Econometrics	4

3. COMMERCE

a) Programmes offered and number of students intake:

Programme	Programmes Offered	Intake	Fees (Rs.)
Established: 1988	M.Com	75	6205.00
Code: CO			
Code: FS	MBA (FS)	75	119364.00
	M.Phil.		12390.00
	Ph.D.		12155.00

b) Introduction about the Programmes:

i. Master of Commerce (M.Com):

The 2-year Master of Commerce programme to be conducted under CBCS, is offered with an objective to provide an extensive specialized knowledge in different domains of Commerce and Business for inculcating appropriate multiple skills and ethical values in the students. The thrust areas of the Department are Accounting and Finance, Financial Services, Entrepreneurship Studies, Tourism and Hotel Management Studies. The very objectives of the programme are (a) To provide the conceptual knowledge and its applications in various areas of commerce fields. (b) To facilitate the students in the various opportunities of studying the professional courses in parallel with Commerce discipline. (c) To provide the knowledge to the students to reach the important positions in teaching, business, industries and related areas of employment opportunities.

ii. Master of Business Administration-Financial Services (MBA-FS):

MBA (Financial Services) is 2 years Full time Programme offered by Goa Business School. The main objective of offering MBA (FS) Programme under Choice Based Credit System include (a) Creation and development of conceptual, operational and managerial skills for manpower requirements of Financial Services industry.

(b) Provide advanced knowledge and training on various facets of financial markets such as Banking, Capital Markets, Corporate Finance and other related areas. (c) Develop manpower that can enjoy functional utility from various employment opportunities and self employment opportunities in the financial sector.

c) Major facilities available in the School:

ICT enabled, Air-conditioned Classrooms, Air-conditioned Auditorium, On Campus Hostels, Transport, Cafeteria, etc.

Modern Computer Lab with Statistical Data Analysis Software, and access to CMIE- PROWESS and M&A, the largest database on Indian Corporate.

Bloomberg terminal that provides 24-hour financial news and information, including real-time and historic data, financial data, trading news, and analyst's coverage, as well as general news and

sports. Eviews: (Econometrics Analysis) Version 8.

d) Placement sources for the Students:

Placement opportunities are available for students in finance & investment companies / professional firms such as Stock Brokers, Project management Consultants / small and medium enterprises, Financial Service Organization including, stock exchanges, finance and investment companies, stock brokers, insurance companies, mutual fund companies, banks, small and medium sized enterprises in Goa or Outside Goa or outside the country.

e) List of faculty and their Specialisations:

Professor (HAG)

Reddy, Y. V. Ph.D. (Osmania University)
Accounting and Finance, Capital Market Studies.



Professors

Ramesh, Bommadevara. Ph.D. (Sri Krishna Devaraya University)
Accounting and Finance, Capital Market Studies.



Guntur, Anjanaraju. Ph.D. (Goa University)
Accounting & Finance, Capital Market Studies.



Subhash, K. B. Ph.D. (Calicut University)
Finance, Tourism, Marketing.



Assistant Professor

Padyala, Sriram Ph.D. (Osmania University)
Accounting, Finance, Security Analysis and Portfolio Management.



Sadekar, Poonam J., Ph.D. (IGNOU)
Travel, Tourism, Management, Hospitality, Environment and Sustainability



Pawaskar, Pinky R., Ph.D. (BITS Pilani, Goa)
Consumer Behavior, Tourism, Advertising



Khanapuri, Harip R., Ph.D. (Goa University)
Accounting, Corporate Finance, Capital Markets



Shenvi Dhume, Pournima S., Ph.D. (Goa University)
Finance, Capital Market Studies, Taxation, Mutual Funds, Retail Management



Shirodkar, Sanjeeta V., M.Com (Goa University)
Derivatives, Commodity Market, Energy



Kolamker, Prachi P., Ph.D. (Goa University)
Corporate Governance, Finance, Accounting



Castanha, Jick M.Com (Goa University)
Corporate Governance, Finance, Accounting



f) Structure of Different programmes:

Master of Commerce (M.Com) Programme
Scheme of Instruction (Semester System)
Choice Based Credit System

COURSE CODES	COURSE TITLES	NO. OF CREDITS
COC 120	Cost and Management Accounting	4
COC 121	Advanced Financial Management	4
COC 122	Business Statistics and Research Methodology	4
COC 123	Business Environment & International Business	4
COC 220	Advanced Corporate Accounting	4
COC 221	Human Resource Management	4
COC 222	Marketing Management	4
COC 223	Banking and Financial Institutions	4
Specialization Courses [Accounting and Finance] [Semester III and IV]		
COO 330	Financial Derivatives Market	4
COO 331	International Financial Management	4
COO 332	Corporate Mergers and Acquisitions	4
COO 333	Financial Services	4
COO 334	Capital Markets and Stock Exchange Operations	4
COO 335	Corporate Valuations	4
COO 336	Cost Management and Control	4
COO 337	Accounting Standards and Financial Reporting	4
COO 338	Basic Financial Econometrics	4
COO 339	Direct Taxes	4
COO 430	Security Analysis and Portfolio Management	4

COO 431	Treasury and Foreign Exchange Management	4
COO 432	Corporate Governance and Social Responsibility	4
COO 433	Commodity Derivatives	4
COO 434	Management of Mutual Funds	4
COO 435	Venture Capital and Private Equity	4
COO 436	Insurance Management	4
COO 437	Goods and Service Tax	4
COO438	Advanced Econometrics	4
COO439	Financial Research Analytics	4
Specialization Courses [Business Management] [Semester III and IV]		
COO340	Advertising and Sales Management	4
COO341	Consumer Behavior and Marketing Research	4
COO342	Training and Development	4
COO343	Performance and Compensation Management	4
COO344	Human Resource Development	4
COO345	Basic Econometrics	4
COO346	Customer Relationship Management	4
COO347	Entrepreneurship Management	4
COO348	Tourism and Travel Management	4
COO349	Marketing Research Analytics	4
COO440	Retail Marketing	4
COO441	Services Marketing	4
COO442	Industrial and Rural Marketing	4
COO443	International Marketing	4
COO444	Enterprises Resource Planning	4
COO445	Industrial Relations and Labour Laws	4
COO446	International Trade and Environment	4
COO447	Advanced Statistical Analytical Models	4
COO448	Digital Marketing and Social Media Management	4
COO449	Organizational Behavior	4
Field Based Optional Course [Dissertation]		
COO450	Dissertation	8

ABOUT OPTIONAL COURSES

At the beginning of the III Semester, Department will open the Specialization Courses from the list given above depending on availability of Faculty Members. Specialization Courses will be offered only if **20%** of the students opt for any Specialization Course. The students are required to opt for 4 Courses each during the Semester III and IV from the Specialization Courses offered. Students have the option of choosing any other Optional Courses (maximum of 2 Courses per Semester III and IV) offered by other Departments and also the Courses available at the **SWAYAM portal**. Those students who are going to take up the Dissertation Option may opt for 3 Courses each during Semester III and IV.

MBA (Financial Services) Programme

Scheme of Instruction (Semester System)

Choice Based Credit System

COMPULSORY COURSES		
COURSE CODE	COURSE TITLES	CREDITS

FSC 101	Accounting for Management	4
FSC 102	Research Methodology and Statistical Analysis	4
FSC 103	Financial Management	4
FSC 104	Security Analysis	4
FSC 105	Financial Services - I	4
FSC 106	Stock Market Operations	4
FSC 201	Business Statistics and Econometrics for Managers	4
FSC 202	Portfolio Management	4
FSC 203	Financial Services - II	4
FSC 204	Treasury and Forex Management	4
FSC 205	Derivatives Market	4
FSC 206	Financial Risk Management	4

Specialization Courses

The students are required to opt for **6 papers during the third semester** from the Specialization Courses.

COURSE CODE	COURSE TITLES	CREDITS
FSO 301	Corporate Restructuring	4
FSO 302	Advanced Econometrics for Finance	4
FSO 303	Venture Capital and Private Equity	4
FSO 304	Organizational Behaviour	4
FSO 305	Corporate Governance and Social Responsibility	4
FSO 306	Marketing of Financial Services	4
FSO 307	Infrastructure and Real Estate Finance	4
FSO 308	Business Analytics	4
FSO 309	Tax Planning and Management	4
FSO 310	Commodity Markets	4
FSO 311	Managerial Skills	4
FSO 312	Insurance Management	4
FSO 313	Advanced IT Applications for Business	4
FSC 314	Summer Training Report	8

Field-based Compulsory Courses

COURSE CODE	COURSE TITLES	CREDITS
FSC 401	Corporate Internship	8
FSC 402	Dissertation	12

4. COMPUTER SCIENCE & TECHNOLOGY

a) Programmes offered & number of students intake:

Programmes	Programmes Offered	Intake	Tuition Fees (Rs.)
Established: 1987	M.C.A.	75	17990.00
Code: CST	Course Development fees for M.C.A.		20286.00
	M.Phil.		13980.00
	Ph.D.		12155.00

b) Introduction about the programme:

Master of Computer Applications (MCA)

The Master of Computer Applications (MCA) program offered under the aegis of the Goa Business School is a three year full time degree Programme. The thrust areas of the program include Programming, Software Engineering, Computer Networks [and Security, Database Management, Educational Technology, IoT and Machine Learning. The intensive laboratory focus and the six month long internship program aids the students to garner skills required for employment. The program encourages the students to participate in the organization of International Conferences and Edutainment events to improve their Communication and Management skills. Students are also encouraged to participate in inter college events and their performance vis-a-vis their counterparts has boosted their Confidence.

The alumni of the department are extremely well placed and currently hold leading positions in reputed IT organizations in the country and abroad. The program is popular among aspiring student fraternity due to the competent faculty members and the consistent efforts in achieving nearly 100% placements every year since its inception.

c) Major facilities available in the School:

Laboratory Facilities: The Laboratory facilities in the Department are constantly upgraded to cater to the growing needs of students. Currently around 130 core i3 desktops are spread over the Department area – the laboratory as well as faculty offices. About one hundred and twenty students can simultaneously work on MS Windows / Linux platforms. Presently, the laboratory supports all computer languages, Integrated Development Environments and software tools available on Open Source Linux Platform. In addition the laboratory also provides students and faculty with the latest versions of development tools and application platforms such as Oracle, Eclipse, Visual Studio, CASE Tools, Rational Suite, Internet Information Server (IIS), MATLAB etc. The Department subscribes to the Microsoft Dream Spark programme which provides legal copies of all Microsoft software available on workstation and Server platforms. The laboratories also provide Broadband Internet connectivity through wired and Wi-Fi networks.

d) List of Faculty & their Specialisations:

Professors

Kamat, Venkatesh V. Ph.D. (Goa University)

Computer Graphics & CAD, Software Engineering, E-learning.



Pawar, Jyoti D. Ph.D. (Goa University)

Data Mining, Data Structures, Natural Language Processing.



Associate Professors

Pinto, Y'ma F. M.C.A. (Goa University)

Database Management System, Operating Systems, Computer Science Education.



Wagh, Ramrao. M.C.A. (Goa University) (on lien)

Software Engineering, GIS.



Baskar, S. M.Sc. (Bharathidasan University)
Machine Learning, Compilers, Embedded Systems and Cloud Computing.



Assistant Professors

Karmali, Ramdas. M.C.A. (Goa University)
Natural Language Processing, Data Communication, Security.



Payaswini, P. Ph.D. (Mangalore University)
Computer Networking, Data Structures, Operating Systems, Unix.



Fernandes, Jarret Stevan Anthony, M.C.A. (Goa University)
Human Computer Interaction (HCI), Software Engineering, Mobile Technology.



Khorjuvenkar, Preeti R. M.Tech (University of Hyderabad)
Data Structures, Programming & Problem Solving, Swarm Optimization Algorithms.



e) Structure of different programmes:

Master of Computer Applications (M.C.A) Programme
Scheme of Instruction: Semester System (Six Semesters)
Choice Based Credit System

COURSE CODE	COURSE TITLE	CREDITS
First Semester		
CS 101	Programming and Problem Solving	4
CS 102	Computer Organization and Architecture	4
MT 103A	Applied Linear Algebra	4
MT 104	Discrete Mathematical Structures	4
PL 105	Programming and Problem-Solving Lab	4
PL 106	UNIX Environment and Tools Lab	4
	Total	24
Second Semester		
CS 201	Data and File Structures	4
CS 202	Operating Systems	4
MT 203	Applied Operations Research	4
MT 204A	Probability and Statistics	4
PL 205	Data and File Structures Lab	4
PL 206	Operating Systems Lab	4
	Total	24
Third Semester		
CS 301	Data Base Management Systems	4

CS 302	Computer Communications Networks	4
CS 303	Design and Analysis of Algorithms	4
CS 304	Object Oriented Technology	4
PL 305	Data Base Management Lab	4
PL 306	Object Oriented Programming Lab	4
	Total	24
Fourth Semester		
CS 401	Software Engineering	4
CS 402	Web Technology	4
EL- I	Elective Paper	4
EL- II	Elective Paper	4
PL 405	Software Engineering Lab	4
PL 406	Web Technology Lab	4
	Total	24
Fifth Semester		
CS 501	Machine Learning	4
CS 502	Network Security	4
EL - III	Elective Paper	4
EL - IV	Elective Paper	4
PL 505	Machine Learning Lab	4
PL 506	Network Security Lab	4
	Total	24
Sixth Semester		
	Software Project Development/Industrial Internship	
	Total Credits	120

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SCHOOL OF EARTH, OCEAN AND ATMOSPHERIC SCIENCES

Dean : **Menon, Harilal B.**



Vice-Dean (Academic) : **Mahender, Kotha**



Vice-Dean (Research) : **Matta, Vishnu M.**



The School of Earth, Ocean and Atmospheric Sciences comprises of three programmes:

1. **M.Sc. in Applied Geology**
2. **M.Sc. in Marine Science**
3. **M.Sc. in Marine Microbiology**

School of Earth, Ocean and Atmospheric Sciences	Programmes Offered
Established: 2019	1. Master of Science in Applied Geology
Codes: GL/MS/MM	2. Master of Science in Marine Science
	3. Master of Science in Marine Microbiology
	4. M.Phil/ Ph.D.

School of Earth, Ocean & Atmospheric Sciences was established in April 2019, bringing in all academic and research activities of oceans and earth sciences under one umbrella. The significant coupling between lithosphere, atmosphere, hydrosphere and cryosphere necessitated a holistic approach to study earth system science rather than addressing each component of the earth system separately. The earth system is highly dynamic. The daunting task of Oceanographers, Earth Scientists and Atmospheric Scientists are to understand the complex dynamics and wade through the present crisis of climate change and thus to create a sustainable environment for the human to survive.

The focus of the school is to provide quality education and research in earth system science steered through an integrated approach with a view to decipher process for a sustainable development.

Since we have framed our syllabi in tandem with the NET syllabus, our pedagogy makes the courses offered by the school as the most favored in post graduating earth system science. The courses offered are strongly inter-disciplinary.

The research funding from external agencies are not only a measure of research quality, but also a good judgement of the acclaim our faculty members held in academic and research arena. By this metric, we are doing well, as our school has the largest external cash flow amongst the science faculty in GU.

Funding is mainly from Ministry of Earth Sciences (MOEs), Indian Space Research Organization (ISRO), Naval Research Board (NRB), University Grants Commission (UGC) along with Department of Science and Technology (DST). From the Academic year 2020 – 2021, the school will be introducing a PG program in Atmospheric Science. Outstanding faculty members will be recruited to carryout teaching and research in this course. This will enable the school to have a strong inter-disciplinary faculty by the end of 2021. In addition to P.G programs, the school will provide need-based certificate and P.G diploma courses. Students registering for Ph.D. degree will have the option to get degree in any branch of the earth system science viz; Marine Science (Physical Oceanography, Chemical Oceanography, Marine Biology, Marine Geology), Atmospheric Science, Hydrography, Remote Sensing & Geographic Information System, Polar Science and Environmental Science.

1. APPLIED GEOLOGY

a) Programmes offered and number of Students intake:

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1986 Code: GL	M.Sc. Applied Geology	31	12390.00
	M.Phil.		13980.00
	Ph.D.		12155.00

b) Introduction about the programme:

It offers academic programme leading to M.Sc. (Applied Geology) and Doctoral degrees. Programme is also funded under DST (FIST) and UGC (SAP) at DRS-III level programmes. The Department works towards reaching the general public under outreach programmes for creating awareness in conservation and management of natural resources. The Department has been actively involved in several international programmes (UNIGIS Distance Learning in GIS, International Earth Science Olympiad, etc.)

As a supplement to the various theoretical courses, the programme also provides the students with an opportunity to work in the field. There are two educational field programmes in the 2nd and 4th semesters respectively, apart from the practical industry training in mining or petroleum related industries at the end of the 2nd semester. Some of the computer tools that the students are introduced during the period of their coursework include Surfer, Strater, Rockware, Surpac, ArcGIS, IDIRSI, StereoNett, ERDAS, etc. apart from other software not explicitly related to the core subjects.

c) DST/FIST/Any other:

Programme is funded by DST(FIST) and UGC (SAP) at DRS-III level programmes.

d) List of faculty & their specializations:

Professors

Mahender, Kotha. Ph.D. (IIT Bombay)

Sedimentology, Petroleum Geology, GIS and Remote Sensing.



Associate Professor

Viegas, Anthony A. A. Ph.D. (Goa University)
Igneous Petrology, Mining Geology



Assistant Professor

Kalangutkar, Niyati. Ph.D. (Goa University)
Igneous Petrology & Volcanology.



Dhawaskar, Poornima K., Ph.D. (Goa University)
Mineralogy, Geochemistry and Igneous Petrology



Ghadi, Pooja P., M.Sc. (Goa University)
Polar Micropaleontology, Paleoclimate, Structural Geology.



Sequeira, Nicole Ann Fae Ph.D (IIT, Khargapur)
Structural Geology, Metamorphic Petrology and Precambrian Tectonics



Mayekar, Mahesh M., M.Sc (Goa University)
Groundwater Geology, Igneous Petrology



DST-INSPIRE FACULTY

SERB - Research Scientist

Ganguly, Sohini. Ph.D. (University of Calcutta)
Minerology and Geochemistry, Metamorphic Petrology.



M.Sc. Applied Geology Programme

Scheme of Instruction (Semester System)
(Choice Based Credit System)

COURSE CODES	COURSE TITLES (CORE COURSES)	CREDITS
GLC 101	Principles of Mineralogy and Geochemistry	3
GLC 102	Structural Geology and Geotectonics	3
GLC 103	Igneous Petrology	3
GLC 104	Metamorphic Petrology	3
GLC 105	Sedimentology	3
GLC 107	Economic Geology	3
GLC 108	Principles of Stratigraphy and Indian Geology	3
GLC 121	Geological Field Mapping	2

GLC 122	Geological Field Training	2
GLC 124	Practical of GLC-101 (Mineralogy & Geochemistry)	1
GLC 125	Practical of GLC-102 (Structural Geology)	1
GLC 126	Practical of GLC-103 (Igneous Petrology)	1
GLC 127	Practical of GLC-104 (Metamorphic Petrology)	1
GLC 128	Practical of GLC-105 (Sedimentology)	1
GLC 130	Practical of GLC-107 (Economic Geology)	1
GLC 131	Practical of GLC-108 (Stratigraphy & Indian Geology)	1
	COURSE TITLES (OPTIONAL COURSES)	
GLO 201	Groundwater Geology	3
GLO 202	Petroleum Geology	3
GLO 203	Exploration Geophysics	3
GLO 204	Micropaleontology	3
GLO 205	Environmental Geology	3
GLO 206	Remote Sensing	3
GLO 207	Marine Geology	3
GLO 208	GIS Fundamentals	3
GLO 209	Mining Geology	3
GLO 210	Coal Geology	3
GLO 211	Soil Science	3
GLO 212	Microtectonics	3
GLO 213	Planetary Geology	2
GLO 214	Sedimentary Basin Analysis	3
GLO 215	Natural Resources & Environmental Management	3
GLO 216	Engineering Geology	3
GLO 217	Sedimentary Facies and Environment	3
GLO 218	Statistical Geology	2
GLO 219	Industrial Mineralogy	2
GLO 220	Pre Cambrian Crustal Evolution	2
GLO 221	Mineral Economics	2
GLO 222	Climate Geology	2
GLO 223	Trace Element Geochemistry	1
GLO 224	GPR Applications	1
GLO 225	Digital Image Processing	2
GLO 226	Glaciology	2
GLO 227	Data Mining	2
GLO 228	Term Paper	2
GLO 229	Minor Project	2
GLO 230	Hydrogeological Problems & Management	3
GLO 231	Well Site Geology	2
GLO 232	Petrophysics	2
GLO 233	Well logging	2
GLO 234	Geoheritage	2
GLO 235	Palaeo-Palynology	2
GLO 236	Advanced Structural Analysis	3
GLO 237	Geodesy Surveying, GPS	2
GLO 238	Petroliferous Basins of India	2

GLO 239	Geomorphology	3
GLO 240	Basics of RS, GIS and GNSS (Edusat course)	3
GLO 241	Geoscience and Society	2
GLO 242	Internship in Geoscience	3
GLO 243	Geoscience Software	2
GLO 244	Seminar Participation	1
GLO 245	Physical Training / Sports Participation	1
GLO 246	Practical of GLO-201 (Groundwater Geology)	1
GLO 247	Practical of GLO-202 (Petroleum Geology)	1
GLO 248	Practical of GLO-203 (Exploration Geophysics)	1
GLO 249	Practical of GLO-204 (Micropaleontology)	1
GLO 250	Practical of GLO-205 (Environmental Geology)	1
GLO 251	Practical of GLO-206 (Remote Sensing)	1
GLO 252	Practical of GLO-207 (Marine Geology)	1
GLO 253	Practical of GLO-208 (GIS Fundamentals)	1
GLO 254	Practical of GLO-209 (Mining Geology)	1
GLO 255	Practical of GLO-210 (Coal Geology)	1
GLO 256	Practical of GLO-211 (Soil Science)	1
GLO 257	Practical of GLO-212 (Microtectonics)	1
GLO 258	Practical of GLO-214 (Planetary Geology)	1
GLO 259	Practical of GLO-215 (Natural Res & Env. Management)	1
GLO 260	Practical of GLO-216 (Engineering Geology)	1
GLO 261	Practical of GLO-217 (Sedimentary Facies and Environment)	1
GLO 262	Practical of GLO-218 (Statistical Geology)	1
GLO 263	Practical of GLO-219 (Industrial Mineralogy)	1
GLO 264	Practical of GLO-223 (Trace Element Geochemistry)	1
GLO 265	Practical of GLO-224 (GPR Applications)	1
GLO 266	Practical of GLO-225 (Digital Image Processing)	1
GLO 267	Practical of GLO-230 (Hydrogeological Problems & Management)	1
GLO 268	Practical of GLO-232 (Petrophysics)	1
GLO 269	Practical of GLO-233 (Well logging)	1
GLO 270	Practical of GLO-235 (Palaeo-Palynology)	1
GLO 271	Practical of GLO-236 (Advanced Structural Analysis)	1
GLO 272	Practical of GLO-237 (Geodesy Surveying, GPS)	1
GLO 273	Practical of GLO-238 (Petroliferous Basins of India)	1
GLO 274	Practical of GLO-239 (Geomorphology)	1
GLO 275	Practical of GLO-240 (Basics of RS, GIS& GNSS -Edusat course)	1
GLO 276	Palaeontology	3
GLO 277	Practical of GLC-276 (Palaeontology)	1
GLO 278	QGIS (Tutor Assisted Internet based self-learning Module)	2
GLO 290	Industrial Training (Summer Internship- 2 to 4 weeks)	4
GLO 301	Dissertation	8

2. MARINE SCIENCE

a) Programmes offered & number of student intake:

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 1985 Code: MS	M.Sc. Marine Science	31	12390.00
	M.Phil.		13980.00
	Ph.D.		12155.00

b) Introduction about the programme:

The programme offers postgraduate M.Sc. in Marine Science. Marine Science is an interdisciplinary programme with common courses in the first year (I & II Semesters) and specialisation courses in the second year (III & IV semesters). Specialisations offered are Physical Oceanography, Marine Chemistry, Marine Biology and Marine Geology.

The programme also offers Ph.D. The thrust areas of research are:

Physical Oceanography: (i) Optical Remote Sensing, Marine optics, Algorithm developments for retrieval of colour components from optically complex case II waters – coastal and estuarine waters, Radiative transfer modelling of visible spectrum of electromagnetic radiation, Identification of perennial source CO₂ through optical remote sensing, Marine aerosol over tropics, sub-tropics and polar waters - Atmospheric optics, Aerosol and atmospheric optics, Effect of aerosol on climate, Spatial Variability of maritime aerosol and Angstrom formula, Aerosol radiative forcing, Synoptic analysis of aerosol through satellite data, Satellite oceanography and meteorology, Air-sea interaction and genesis of water masses, Ocean circulation.

Marine Chemistry: Biogeochemical cycling of nutrients and trace metals in estuaries and adjoining coastal waters; Dissolved - particulate interactions of trace elements; Impact of pollutants (mining, sewage and industrial) on water quality, sediment composition and biota in estuaries and adjoining coastal waters, Speciation of some minor elements to understand dominant fraction of the total elements; Sorption modeling of trace metals.

Marine Biology: Marine demersal fish biodiversity assessment, Community structure, Trophic dynamics and ecosystem function, Database and photo documentation of demersal fish communities in coastal waters.

Marine Geology: Coastal and estuarine sediment characterization, Coastal morphology and dynamics, Coastal zone management, Impact of mining on lacustrine and estuarine sedimentary environment – suspended and bed-load sediments, Geochemistry of lacustrine & estuarine sediments and tidal / mudflat sedimentary environment, Speciation of elements in estuarine sediments and bioavailability of metals, Magnetic susceptibility of estuarine and mudflat sediments, Suspended matter and its chemistry of Southern Ocean, Environment assessment studies of estuaries and lakes, Reading pollution history through mudflat studies.

National Resource Centre in Marine Science:

MHRD had identified 75 institutions as National Resource Centre (NRC) in 75 different subjects. Goa University has been identified as NRC in Marine Science.

Goa University is offering a 4 Credit Course online (on SWAYAM website) and the same is considered as Annual Refresher Programme to Teachers (ARPITS) in Marine Science. The course has been initiated from 26th November 2018 and will end on 28th February 2019. Over 550 learners had

registered for the said course.

c) DST/FIST/Any other:

Programme is funded by DST(FIST).

d) List of faculty & their specializations:

Professor (HAG)

Menon, Harilal B. Ph.D. (Cochin University of Science & Technology)

Physical Oceanography and Meteorology, Optical Remote Sensing, Marine and Atmospheric Optics, Aerosol Science, Radiative Transfer Modeling.



Professors

Rivonker, Chandrashekhar U. Ph.D. (Goa University)

Marine Ecology, Aquaculture and Fisheries.



Matta, Vishnu M. Ph.D. (Andhra University)

Marine Chemistry, Environmental Pollution, Seaweed Chemistry.



Associate Professor

Upadhyay, Shankarshana. Ph.D. (University of Poona & University of East Anglia, U.K.)

Marine Chemistry, Estuarine Chemistry, Aquatic Geochemistry.



Assistant Professors

Can, Aftab A. Ph.D. (Goa University)

Satellite Meteorology and Oceanography, Physical Oceanography, Marine Meteorology



Nasnodkar, Maheshwar R. Ph.D. (Goa University)

Marine Chemistry, Geochemistry, Bioaccumulation and phyto-remediation



Fernandes, Sheryl Oliveira. Ph.D. (Goa University)

Marine Microbial Ecology; Marine Biogeochemistry.



e) Structure of programmes:

M.Sc. Marine Science Programme

Scheme of Instruction (Semester System)

(Choice Based Credit System)

Semester I

COURSE CODE	COURSE TITLE (CORE COURSES)	CREDITS
MSC 161	Physical Oceanography I	3
MSC 162	Marine Chemistry I	3
MSC 163	Marine Biology I	3
MSC 164	Marine Geology I	3
MSC 165	Physical Oceanography Practical I	1
MSC 166	Marine Chemistry Practical I	1
MSC 167	Marine Biology Practical I	1
MSC 168	Marine Geology Practical I	1

Total No. of Credits 16: Core:16; Optional 0; Theory: 12 Practicals: 4

Semester II

COURSE CODE	COURSE TITLE (CORE COURSES)	CREDITS
MSC 261	Computational Methods in Oceanography	4
MSC 262	Computational Methods in Oceanography Practical	2
MSC 263	Law of the Sea and Coastal Regulation Zone	2
	COURSE TITLE (OPTIONAL COURSES)	
MSO 264	Remote sensing and its applications	4
MSO 265	Remote sensing and its applications Practical	2
MSO 266	Analytical chemistry of sea water and instrumental techniques Practical	4
MSO 267	Analytical chemistry of sea water and instrumental techniques Practical	2
MSO 268	Aquaculture	4
MSO 269	Aquaculture Practical	2
MSO 270	Physical Oceanography II	1
MSO 271	Physical Oceanography practical II	1
MSO 272	Marine Chemistry II	1
MSO 273	Marine Chemistry Practical II	1
MSO 274	Marine Biology II	1
MSO 275	Marine Biology Practical II	1
MSO 276	Environmental Impact Assessment	1
MSO 277	Environmental Impact Assessment Practical	1
MSO 278	GIS applications in Marine Science Practical I	1
MSO 279	GIS applications in Marine Science Practical II	1
MSO 280	Marine chemistry Practical III	1

MSO 281	Marine chemistry Practical IV	1
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Total No. of Credits 16: Core: 08; Optional 08; Theory: 11 Practicals: 5

SEMESTER III

COURSE CODE	COURSE TITLE (OPTIONAL COURSES)	CREDITS
MSO 361	Geophysical Fluid Dynamics	4
MSO 362	Geophysical Fluid Dynamics Practical	2
MSO 363	Ocean Atmosphere Coupling and Climate	4
MSO 364	Ocean Atmosphere Coupling and Climate Practical	2
MSO 365	Marine Pollution	4
MSO 366	Marine Pollution Practical	2
MSO 367	Bioaccumulation and Phytoremediation	3
MSO 368	Bioaccumulation and Phytoremediation Practical	1
MSO 369	Aerosol and Climate	3
MSO 370	Aerosol and Climate Practical	1
MSO 371	Marine Microbial Ecology I	3
MSO 372	Marine Microbial Ecology II	1
MSO 373	Marine Microbial Ecology Practical I	1
MSO 374	Marine Microbial Ecology Practical II	1
MSO 365	Marine Pollution	4
MSO 366	Marine Pollution Practical	2
MSO 375	Marine Geochemistry I	2
MSO 376	Marine Geochemistry II	1
MSO 377	Marine Geochemistry III	1
MSO 378	Marine Geochemistry Practical I	1
MSO 379	Marine Geochemistry Practical II	1
MSO 363	Ocean Atmosphere Coupling and Climate	4
MSO 364	Ocean Atmosphere Coupling and Climate Practical	2
MSO 367	Bioaccumulation and Phytoremediation	3
MSO 368	Bioaccumulation and Phytoremediation Practical	1
MSO 369	Aerosol and Climate	3
MSO 370	Aerosol and Climate Practical	1
MSO 371	Marine Microbial Ecology I	3
MSO 372	Marine Microbial Ecology II	1
MSO 373	Marine Microbial Ecology Practical I	1
MSO 374	Marine Microbial Ecology Practical II	1
MSO 380	Marine Ecology	4
MSO 381	Marine Ecology Practical	2
MSO 363	Ocean Atmosphere Coupling and Climate	4
MSO 364	Ocean Atmosphere Coupling and Climate Practical	2

MSO 365	Marine Pollution	4
MSO 366	Marine Pollution Practical	2
MSO 367	Bioaccumulation and Phytoremediation	3
MSO 368	Bioaccumulation and Phytoremediation Practical	1
MSO 369	Aerosol and Climate	3
MSO 370	Aerosol and Climate practical	1
MSO 371	Marine Microbial Ecology I	3
MSO 372	Marine Microbial Ecology II	1
MSO 373	Marine Microbial Ecology Practical I	1
MSO 374	Marine Microbial Ecology Practical II	1
MSO 382	Sedimentology	4
MSO 383	Sedimentology Practical	2
MSO 375	Marine Geochemistry I	2
MSO 376	Marine Geochemistry II	1
MSO 377	Marine Geochemistry III	1
MSO 378	Marine Geochemistry Practical I	1
MSO 379	Marine Geochemistry Practical II	1
MSO 363	Ocean Atmosphere Coupling and Climate	4
MSO 364	Ocean Atmosphere Coupling and Climate Practical	2
MSO 367	Bioaccumulation and Phytoremediation	3
MSO 368	Bioaccumulation and Phytoremediation Practical	1
MSO 369	Aerosol and Climate	3
MSO 370	Aerosol and Climate Practical	1
MSO 371	Marine Microbial Ecology I	3
MSO 372	Marine Microbial Ecology II	1
MSO 373	Marine Microbial Ecology Practical I	1
MSO 374	Marine Microbial Ecology Practical II	1

Total No. of Credits 16: Core: 0; Optional 16 ; Theory: 11 Practicals: 5

Semester IV

COURSE CODE	COURSE TITLE (CORE COURSES)	CREDITS
Physical Oceanography Specialization		
MSC 461	Estuarine and Coastal Physical Oceanography	1
MSC 462	Estuarine Chemistry	1
MSC 463	Estuarine Biology	1
MSC 464	Estuarine and Coastal Geology	1
MSC 465	Dynamic Oceanography I	2
MSC 466	Dynamic Oceanography II	2
	COURSE TITLE (OPTIONAL COURSES)	

MSD 480	Dissertation	8
Marine Chemistry Specialization		
COURSE CODE	COURSE TITLE (CORE COURSES)	CREDITS
MSC 461	Estuarine and Coastal Physical Oceanography	1
MSC 462	Estuarine Chemistry	1
MSC 463	Estuarine Biology	1
MSC 464	Estuarine and Coastal Geology	1
MSC 467	Physical and Inorganic Chemistry of seawater	4
	COURSE TITLE (OPTIONAL COURSES)	
MSD 480	Dissertation	8
Marine Chemistry Specialization		
COURSE CODE	COURSE TITLE (CORE COURSES)	CREDITS
MSC 461	Estuarine and Coastal Physical Oceanography	1
MSC 462	Estuarine Chemistry	1
MSC 463	Estuarine Biology	1
MSC 464	Estuarine and Coastal Geology	1
MSC 468	Marine Biodiversity Conservation and Practices	4
	COURSE TITLE (OPTIONAL COURSES)	
MSD 480	Dissertation	8
Marine Geology Specialization		
COURSE CODE	COURSE TITLE (CORE COURSES)	CREDITS
MSC 461	Estuarine and Coastal Physical Oceanography	1
MSC 462	Estuarine Chemistry	1
MSC 463	Estuarine Biology	1
MSC 464	Estuarine and Coastal Geology	1
MSC 469	Tectonics, Geophysics and Structural Geology	4
	COURSE TITLE (OPTIONAL COURSES)	
MSD 480	Dissertation	8

3. MARINE MICROBIOLOGY

a) Programmes offered & number of student intake

Programme	Programmes Offered	Intake	Tuition Fee (Rs.)
Established: 2012	M.Sc. Marine Microbiology	25	12390.00
Code: MM			

b) List of faculty & their specializations:

Assistant Professors

D'Costa, Priya M. Ph.D. (Goa University)

Marine Microbiology, Interactions Between Bacteria and Phytoplankton, Diatom Diversity, Biofilms.



Damare, Varada S., Ph.D. (Goa University)

Marine Microbiology, Microbial Ecology, Marine Protists, Microbial Bioprospecting, Bioremediation, Trophic Interactions.



Lotlikar, Nikita P., Ph.D. (Goa University)

Microbial Biochemistry, Microbial Genetics, Gene Regulation, Coral Microbiology and Marine Microbiology.



Naik, Sangeeta M., Ph.D. (AcSIR - Academy of Scientific and Innovative Research)

Marine Biogeochemistry, Marine Microbial Ecology and Algal Physiology.



Parulekar Berde, Chanda V., Ph.D (Goa University)

Microbial bioremediation, Marine microbiology, microbial secondary metabolites, archaea, endophytic microorganisms



c) Structure of programmes:

M.Sc. in Marine Microbiology Programme

UGC Innovative sponsored programme for Teaching and Research in Marine Microbiology.

Scheme of Instruction (Semester System)

Choice Based Credit System

COURSE CODE	COURSE TITLE	CREDITS
MMC 101	Microbial Biochemistry	3
MMC 102	Microbial Biochemistry – Practical	1
MMC 103	Fundamentals of Oceanography	3
MMC 104	Fundamentals of Oceanography – Practical	1
MMC105	Microbial Taxonomy and Systematics	3
MMC 106	Microbial Taxonomy and Systematics – Practical	1
MMC 107	Mathematics and Statistics in Biology	3
MMC 108	Mathematics and Statistics in Biology -Practical	1
		Total = 16
	Semester II - Core Papers	
MMC 201	Techniques and Instrumentation in Microbiology	3
MMC 202	Techniques and Instrumentation in Microbiology - Practical	1
MMC 203	Industrial Microbiology	3
MMC 204	Industrial Microbiology – Practical	1
MMC 205	Microbial Genetics and Gene Regulation	3
MMC 206	Microbial Genetics and Gene Regulation - Practical	1
MMC 207	Microbial Ecology	3

MMC 208	Microbial Ecology – Practical	1
		Total = 16
	Semester III - Optional Papers	
MMO 301	Marine Virology	3
MMO 302	Marine Zooplankton Ecology and Microbial Interactions	3
MMO 303	Marine Zooplankton – Practical	1
MMO 304	Archaea	3
MMO 305	Archaea – Practical	1
MMO 306	Genetic Engineering	3
MMO 307	Genetic Engineering – Practical	1
MMO 308	Marine Mycology	3
MMO 309	Marine Mycology – Practical	1
MMO 310	Marine Pollution and Monitoring	3
MMO 311	Marine Pollution and Monitoring – Practical	1
MMO 312	Analytical Techniques in Phytoplankton Studies	1
MMO 313	Marine Extremophilic Microorganisms: Culturing and Characterization	1
MMO 314	Analysis of Microbial Pathogens in the Marine Environment	1
MMO 315	Microbial Remediation – Practical	1
MMO 316	Marine Microbial Screening for Secondary Metabolites	1
MMO 317	Microbiological Analysis in Fisheries	1
MMO 318	Microbial Oceanographic Methods	1
MMO 319	Field Trip/Study Tour – Practical	1
MMO 320	Training in an Institute/ Industry/ University	1
		Total = 16
	Semester IV - Optional Papers	
MMO 401	Polar Microbiology	3
MMO 402	Deep Sea Microbiology	4
MMO 403	Coral Microbiology	3
MMO 404	Bioinformatics Databases	2
MMO 405	Marine Phytoplankton	2
MMO 406	Marine Extremophilic Microorganisms	3
MMO 407	Marine Microbial Prospecting and Technology	3
MMO 408	Marine Environment and Public Health	3
MMO 409	Marine Microbial Remediation	2
MMO 410	Ocean Observations and Techniques	3
MMO 411	Fishery Microbiology	3
MMD 412	Dissertation	8
		Total = 16

Total No. of Credits: Core: 32; Optional: 32

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SCHEDULE OF FEES FOR THE ACADEMIC YEAR 2020-2021		
Sr. No.	Particulars	Amount in INR
1	Tuition Fee (Yearly)	
a)	M.A./ M.Com / M.Sc. (Mathematics)	6205
b)	M.Sc. (Other than Mathematics & Electronics)	12390
c)	M.Sc. (Electronics)	16230
d)	M.Sc. (Biochemistry)	88200
e)	M.B.A. (Financial Services)	119364
f)	M.B.A.	119364
g)	I.M.B.A.	80262
h)	M.C.A.	17990
	Course Development Fees for M.C.A.	20286
i)	M.Phil	12390
j)	M.Phil (for Sciences)	13980
k)	Post Graduate Diploma in Medical Laboratory Techniques	42834
l)	Certificate Courses	4200
m)	Ph.D.	12155
n)	Ph.D. Administrative Fees	12130
o)	M.L.I.Sc.	26790
p)	B.L.I.Sc.	22974
2)	Enrolment Fee	
a)	a) Goa University Students	600
b)	b) Outside University Students	3500
3	Gymkhana, Student Union, ID Card Fee	520
4	Student Aid Fund	150
5	Laboratory Fee/ Computer Fee	
a)	Applicable for Ph.D. Students	1215
b)	Applicable for other than Ph.D. Students	980
6	Annual Internet Fee	550
7	Annual Library Fee	
a)	Applicable for Ph.D. Students	1215
b)	Applicable for other than Ph.D. Students	570
8	Caution Deposit (Refundable)	2130
9	Eligibility Fees	
a)	Indian students from other boards/universities	600
b)	Foreign Students	3620
10	Migration Certificate Fee	500
a)	Duplicate Migration Certificate	600
b)	Cancellation of Migration Certificate (after 6 months)	250
11	Transcripts	
a)	Professional programmes	370
b)	General Education programmes	240
c)	Attestation of Academic Record/WES and any other Certificate	370
d)	Issue of NOC for transfer of Internship	1100
e)	Issue of Medium of Instruction Certificate	130

1. RESEARCH STUDENTSHIP

The University invites applications for Research Studentship from full-time research fellows who are registered for the Ph.D. degree programme in the University teaching departments under various Faculties, and who are not in receipt of any other scholarship/studentship, etc. The applications in the prescribed form which is available in the respective Department should be submitted along with certified copies of the required certificates, duly recommended by the Guide and the Head of the Department to the Academic PG Section. The last date to receive applications will be notified separately. For more information, you can click the following link (<https://www.unigoa.ac.in/goa-university-content/article.php?id=71>).

Conditions for the award of Research Studentship:

1. Full time research scholars should have at least second class at the graduation level and obtained Master's degree by papers securing a minimum of 55% or equivalent grade, and or by research from Goa University, or from any other University recognized by Goa University, and whose Ph.D. registration has been confirmed.
2. Research scholars whose Ph.D. registration is likely to be confirmed by December 2019 can also apply. Applications of such candidates shall have to be recommended by their respective guide.
3. Full time research scholars holding any other scholarship are not eligible to apply.
4. Candidates should not have completed more than eight terms on the date of application.
5. In case the six monthly reports are not satisfactory, the Research Studentship is likely to be terminated.
6. Declaration from the candidates that they are not employed should be submitted after the issue of sanction order.
7. Applications will be screened by the University Research Committee and its decision shall be final.
8. Research scholars shall have to sign the attendance register available in the respective Departments, twice every day, in the morning and in the evening.
9. Ordinarily the fellowship shall be for a period of two years from the date of its award. However, the fellowship may be continued for the 3rd year on recommendation of the Committee to the Vice-Chancellor for approval subject to the following conditions:
 - i) There is significant progress made by the candidate in the research work.
 - ii) The applicant has published a paper involving his/her work in a refereed journal.
10. Candidates are required to apply for continuation of the fellowship during the second year which will be on the basis of recommendation of guiding teacher and the certification of the HOD regarding attendance of the candidate and research work done by the applicant.
11. Scholars selected for Goa University research studentship will be entitled for 30 days leave in an academic year. Leave beyond 30 days will be without scholarship.
12. Research scholar is required to return the fellowship amount paid to him/her to the University, in case the Ph.D. course of study is terminated without completion. Research scholar shall be required to submit such an undertaking.

2. MERIT SCHOLARSHIPS/FREE STUDENTSHIPS:

Applications will be invited from post-graduate students of this University for the award of Merit Scholarships/Free Studentships for the current academic year in the prescribed form which will be available in the Academic (PG). Applications completed in all respects should reach the Academic (PG) of this University on or before the prescribed date. The last date to receive applications will be notified separately.

Conditions for the award of Merit Scholarship/Free Studentship are as under:

MERIT SCHOLARSHIP

1. The candidate at the qualifying examination should have secured at least 60% of aggregate marks (in first attempt) in respect of Arts, Commerce & Management Studies and at least 65% of the aggregate marks in Science Streams (in first attempt).

2. The beneficiary of Mineral Foundation of Goa Scholarship is however not entitled for a Merit Scholarship award.

FREE STUDENTSHIP

1. The applicant should belong to the income group not exceeding Rs. 3,00,000/- per annum for the last financial year.
2. The candidate should have secured at least 45% of aggregate marks in Arts, Commerce & Management Studies and 50% of the aggregate marks in Science subjects at the last qualifying examination.
3. The beneficiary of any other Government Scholarship/ Mineral Foundation of Goa Scholarship is however not entitled for a Free Studentship award.

Candidates should note that the Merit Scholarship/ Free Studentship will be withdrawn if it is found from the records that they do not fulfill the conditions of at least 75% attendance at the lectures and practicals, wherever prescribed.

3. OTHER SCHOLARSHIPS BY VARIOUS GOVERNMENTS/INSTITUTIONS:

- a. Post Matric Scholarship to Schedule Tribe (ST) Community
- b. Post Matric Scholarship to Schedule Caste(SC) Community
- c. Post Matric Scholarship to Other Backward Classes(OBC) Community
- d. Post Matric Scholarship to Differently Abled Persons
- e. Dayanand Bandodkar Scheme for Higher Education for Orphans.
- f. Fee Waiver Scheme for SC/ST Students pursuing Higher Educations.
- g. Post Graduate Indira Gandhi Scholarship for Single Girl Child.
- h. Sant Sohirobanath Ambiye Dnyanvrudhhi Shishyavrutti (**Bursary Scheme**).
- i. Central Sector Scheme of Scholarships for University Students.
- j. Post Matric Scholarship to Minority Community through National Scholarship Portal.

4. EDUCATIONAL LOAN SCHEME: Educational Loan Scheme of Goa State Scheduled Castes and Other Backward Classes Finance and Development Corporation Ltd. (a Govt. of Goa undertaking), 4th floor, Patto Centre, Panaji, Goa is available for the needy students from the scheduled castes, other backward classes and handicapped categories. Students who fulfill the eligibility conditions may apply for educational loan under the scheme.

5. FOREIGN STUDENTS: Foreign students desiring to take admission in Goa University and colleges affiliated to this University are required to apply through the Ministry of Human Resources Development, Department of Education, Govt. of India, New Delhi. A certain percentage of seats are especially reserved for foreign students at Goa University. Foreign students may also contact the Foreign Students Advisor, Goa University.

As per the student Visa policy introduced by the Government of India w.e.f. 23 July 1992, the Government will grant regular Visa only to prospective college students who have firm letters of admission from Indian Universities/recognised Colleges/Educational Institutions. The recognised institutions would be those included in the list issued by the Association of Indian Universities, UGC and Ministry of Health (Medical Council of India).

Foreign students who do not have such firm letter would be given provisional student Visa by the Government of India Missions abroad only on the basis of production of provisional admission certificate issued by such recognised Universities and/or affiliated institutions. In both types of student Visa the name of the University and the college where the students have secured admission should be mentioned in the Visa of the foreign students. **The practice of issuing 'X' Entry Visa to prospective foreign students who do not have firm letters of admission has been discontinued.**

No admission to foreign students is granted if their passport shows any type of Visa other than students/provisional student Visa. Students having 'X' Entry Visa have to go back to their countries even if they get admission in Indian Universities etc., at the expiry of the initial period of stay allowed in their original Visa. Hence, under no circumstances, a change of purpose of visit to India will be allowed. Nor any change of institution (other than that mentioned in the student's Visa/provisional student's Visa) will be allowed. A foreign student will be permitted to take admission at this University on the basis of a Visa granted to study at this University.

Foreign students may contact **Tripathi, Rahul, Department of Political Science, Foreign Students' Advisor**, E-mail: rmt@unigoa.ac.in Ph. 8669609149 for necessary guidance.

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LIST OF AWARDS AND PRIZES:

The following Awards/Scholarships/Prizes/Medals have been instituted for students securing highest marks in the qualifying examinations of the PG Departments:

- | | |
|--|---|
| 1. Shri Venkatesh Govind Sinai Virginkar Prize | M.A. French |
| 2. Prof. G. D. Parikh Memorial Scholarship | M. A. Economics |
| 3. Dr. P.R. Dubhashi Award | M.A. Economics, Political Science, Sociology, History, Philosophy |
| 4. EDC Gold Medal | MBA |
| 5. Prof. D. B. Wagh & Hira Wagh Fund | M.Sc. Mathematics or Physics |
| 6. Francisco Correia Afonso Memorial Prize | M.A. English |
| 7. Late Smt. Rukminibai & Late Baburao Wader Memorial Prizes | M. A. Marathi |
| 8. Dr. V. V. R. Varada Chari Gold Medal | M.Sc. Marine Science (Specialization in Oceanography) |
| 9. Late Dr. Leo Mackensen Barros Gold Medal | M.Sc. Marine Biotechnology |
| 10. Shri Megha Shyam Parshuram Deshpurabhu Parithoshik | M.A. Portuguese, M.A. French or M.A. History |
| 11. Dr. Vithal R. Mitragotri Memorial Prize | M.A. History |
| 12. Jindal Jubilee Gold Medal | M.Com. |
| 13. Xth Indian Council of Chemistry Conference | M.Sc. Inorganic, Organic & Physical Chemistry (1 each) |
| 14. Late Dr. G. V. Kamat Helekar Prize | M.A. Economics |
| 15. Late Miss Kavita Devraj Anand Prize | M.Com. |
| 16. Prof. F. B. Antao Gold Medal | M.Sc. Geology |
| 17. Shri. Prabhakar Shejwadkar Gold Medal | M.A. Hindi |
| 18. Rotary Club of Panaji Scholarship | MCA |
| 19. Uttaranchal Sanskritik Mandal Goa Scholarship | M.A. Hindi |
| 20. Prof. S. K. Paknikar Research and Educational Trust Prize | M.Sc. Organic Chemistry |
| 21. Coca-Cola Gold Medal | M.Com. and M.Sc. Chemistry (one each) |
| 22. Coca-Cola Cash Prize | M.Com. and M.Sc. Chemistry (one each) |
| 23. Late Shri Dilip Kumar Rayu Prabhu Mahambre Gold Medal (4 Medals) | M.Sc.- Botany; M.A.- Economics; M.A. – Konkani ;
M.A.- Philosophy/
Political Science/ Sociology by rotation |
| 24. Department of Zoology Gold Medal | M.Sc. Zoology |
| 25. IV SERC School in Physics Gold Medal | M.Sc. (Physics & Electronics) |
| 26. Prof. Daleep Singh Research Scholarship | Ph.D. in Economics on a topic relating to a former Portuguese Colony in Africa, particularly Angola and Mozambique. |

27. Prof. N.C. Nigam Memorial Gold Medal	M.Sc. Microbiology
28. Late Shri. Janardan Gopal Thaly Memorial Gold Medal	M.B.A. (Financial Services)
29. Late Smt. Laxmi Narayan Shet Narvekar Prize	B.Sc. (Amongst students admitted to M.Sc. Mathematics at Goa University)
30. Tasneem Fazal Gold Medal and cash prize	Lady student topper in B.Sc. from GU taking admission in M.Sc. (Physics)
31. Francis Simon Cabral Gold Medal	M.Sc. Chemistry
32. Satyajit Kerkar Gold Medal	M.Sc. Marine Biotechnology
33. CSI, Goa Chapter - Gold Medal	M.C.A.
34. Yeshwant Govind Kamat Prize	B. Sc. Mathematics of Goa University student enrolled for M. Sc. Mathematics in Goa University
35. Finalists Do Setima Ano Do Liceu – 1957 Gold Medal	M. A. Portuguese, M. Sc. Mathematics
36. Shrimati Malati Chauhan & Shri Shivdayal Singh Chauhan Memorial Gold Medal	MBA
37. C. X. Furtado Gold Medal	M.Sc. Advanced Ecology at M.Sc. Botany OR Evolutionary Biology at M.Sc. Zoology
38. Late Shri Anant Ramkrishna S. Dhume Gold Medal	M. A. History
39. Zoology Department Prize for Ph.D Research paper	Ph.D. Zoology
40. Fr. Victor Joao Gualberto Anes and Arnaldo Tome Berta Epifanio Anes Prize	Topper in M.A. English, M.A. Sociology, M.Sc. Mathematics & M.Com. in Accounting & Finance
41. Dr. Harishchandra T. Nagvenkar Prize	Topper in M.A. Konkani
42. Late Adv. Lakshmikant V.S. Talaulikar Prize	Topper in M.A. Konkani
43. Late Professor Dattaram Anant Ambiye sponsored Sant Sohirobanath Ambiye Prize	Topper in M.A. Marathi

Note: More details about the qualifications for the award of the above prizes/awards may be obtained from the Academic (PG) Section of Goa University.

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INNOVATIVE PROJECTS/PROGRAMMES

(a) Digital Learning and Initiatives (DDLI)

Goa University has set up Distance Education, Information and Training Infrastructure (DEITI) funded by Distance Education Council (Govt. of India) under Ministry of Human Resource. The set up is meant to cater distance education to the people of Goa through the satellite technology. There are 25 DRS (Direct Reception System) centres set up at selected Colleges and Higher Secondary Schools covering all 12 Talukas.

The DEITI is well equipped with its state-of-the-art studio having all kinds of facilities of audio-video recording and editing. The DEITI also organizes live interactive programmes where the students and teachers interact with the Resource persons on the specific subject. The studio facility is also made available on commercial basis for indoor/outdoor shooting, recording and editing at reasonable rates.

Directorate of Digital Learning and Initiatives (DDLI): Janarthanam, M.K. Director

Email - jana@unigoa.ac.in, Ph.: 8669609224

(b) Study India Programme (SIP)

The SIP programme is offered to a group of foreign students wanting to pursue study in India to earn credits. The universities/institutions desirous to send a batch consisting not less than five students are required to contact the SIP Coordination Committee to prepare and sign a Memorandum of Understanding containing the programme outline, time-schedule, credit transfer, and fee structure. The MOU is a prerequisite for launching the SIP. The University does not entertain inquiries of students not supported by their respective universities/institutions.

(c) Study Japan Programme (SJP)

Goa University offers a one month Study Japan Programme as part of its student exchange programme with College of International Relations, Nihon University Mishima, Japan. The course includes a 40 hour module on Japanese Society, Culture, Business and International Relations, which introduces the students to the various facets of Contemporary Japan. Apart from doing sessions along with the students of Nihon University, the students are also taken to field trips to various important locations in the vicinity of Mishima. The objective of the programme is to provide students international experience and get them acquainted with diverse aspects of the Japanese culture and practices, which would help them in their overall perspective and personality building. Partial scholarships are also offered to five students who are selected each year after a due screening process. The announcement for the programme usually come in January every year. So far five batches of students have availed of this programme.

Co-ordinator:

Somayaji, Ganesha Department of Sociology, Email - ganesh@unigoa.ac.in, Ph.: 8669609153

Co-cordinator:

Tripathi, Rahul, Department of Political Science, Email - rmt@unigoa.ac.in, Ph.: 8669609149

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FACILITIES & OTHER ACTIVITIES

a) Library: The Goa University Library and Information Centre was set up on 30th of June 1985 around the nucleus of the Library of the Centre for Post Graduate Research and Instruction, University of Bombay. The initial collection numbered 37,678 books and several bound volumes of periodicals. Today, our holdings have crossed 1,55,000 books covering a wide range of disciplines under Humanities, Social Science and Pure and Applied Sciences especially Microbiology, Marine Science, Environmental Science, Computer Science, Geology, Management and other disciplines including a special collection on Latin America and The Caribbean. The Library also has a large collection of titles in Konkani, the state language of Goa and a foreign language section which includes titles in Portuguese, French and Spanish. Our Library acquires around 3000 books and over 350 periodicals every year. It also receives more than 150 periodicals gifted by various organisations and institutions. Goa University Library is a designated Repository Library of United Nations' publications since 1996.

In addition to these, our Library has a collection of rare books on Indo-Portuguese History and Culture donated by the late Dr. P. S. S. Pissurlekar (about 5000 books in various Languages). Mr. Nuno Gonsalves of Portugal and numerous others have donated their collections to the University for the use of scholars of Goa and the neighbouring regions. A bibliography of these resources is currently available in print form. The Goa University Library is the single largest centre of academic resources in the State of Goa and caters not only to the needs of the academic community of the state but also serves many scientific, historical and social science researchers from neighboring States.

Our Automated Services:

With the successful completion of computerising the database of bibliographic details and automating its services our Library is on the threshold of embarking on its new role that of an information resource centre at the service of the academic community of this region, in addition to its traditional function of holding and disseminating of books.

Library Website:

The Library website is available under the url <http://library.unigoa.ac.in> This website has a Knowledge Portal which links to the various online e-resources subscribed as well as free for the use of the students and faculty. The e-resources provided by the INFLIBNET Centre Ahmedabad are available through the library website. Faculty and students get access to various full text and bibliographic databases through the UGC Infonet Digital Library link in the knowledge portal. There are federated search engines like <http://jccc-ugcinfonet.in> available for searching the e-resources.

The Library also supports the maintenance of the University Repository which is available at <http://irgu.unigoa.ac.in/drs/>

Library Catalogue:

The Library has presently 1,80,898 books and its bibliographic details are stored in an Open Source software KOHA in a designated server at the Computer Center of the University. This database is now available on the Internet under the url <http://libcat.unigoa.ac.in/> Students and Faculty can check the availability of books, reserve books and check the renewal dates through the interface available globally.

Electronic Theses and Dissertations:

The Goa University has already started submitting Ph.D theses in digital format to the National ETD Project "Shodhganga" which is available under the url <http://shodhganga.inflibnet.ac.in/handle/10603/6586>

Computer Lab and Cyber Centre:

The University Library has a Computer Centre and Cyber Lab for browsing the Internet. At present 50 computers are connected to the Internet with the 1 GB bandwidth connectivity provided by the National Knowledge Commission. The entire library building is also Wi-Fi enabled.

Library Timings:

Week days : 9.00 A.M. To 6.30 P.M., Saturdays: 10.00 A. M. To 5.00 P.M.

Contact Person: Gopakumar, V. Librarian, Email - librarian@unigoa.ac.in, Ph: 8669609012

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(b) EARTH SCIENCE AND TECHNOLOGY CELL AND CENTRE OF EXCELLENCE IN MARINE MICROBIOLOGY

Earth Science and Technology Cell in the field of Marine Microbiology was established at Goa University in January, 1998 with the support of Department of Ocean Development, New Delhi, which is now merged with the Ministry of Earth Sciences. The objectives of the Cell and the Centre are to strengthen academic and scientific work in the area of Earth, Ocean Sciences and Marine Microbiology through projects/workshop/seminar. The Cell functions under the guidance of the Management Board constituted by Ministry of Earth Sciences with Vice Chancellor, Goa University, as the Chairperson.

(c) UGC – HUMAN RESOURCE DEVELOPMENT CENTRE (UGC-HRDC)

This Centre has been functioning at the University campus since 1988 and is regularly conducting the required Orientation, Refresher and other Programmes for the Teaching Faculty at PG Departments and affiliated Colleges/Institutes of Goa University and other Universities in the country. Being one among 57 similar colleges set up and funded by the UGC in different Universities, this Centre has played a major role in the training of University/College teachers in a commendable way. With the establishment of the Computer Laboratory provided with special funds from UGC, the activities of the Centre have been further focused to include Internet/specialized subject-specific software as an integral part of Orientation/Refresher programmes.

In-charge Director: Rivonker, Chandrashekhhar U. Email- hrdc@unigoa.ac.in, Ph: 8669609235

(d) UNIVERSITY SCIENCE INSTRUMENTATION CENTRE (USIC)

University Science Instrumentation Centre (USIC) is a central instrumentation facility of the university consisting of Electronics, Mechanical and Glass Blowing workshops managed by faculties, officers and trained technicians. Energy Dispersive X-Ray Analysis (EDX), referred to as EDS or EDAX has been installed as a part of the Scanning Electron Microscope (SEM) at USIC. EDS is an X-ray technique used to identify the elemental composition of materials. In addition to this, SEM facility can be used for Image morphology of samples, Image compositional and some bonding differences, Undertake micro and nano lithography and so on. The centre was established in 1990 during Eighth- five year plan period with an independent building having 250 sq. meters, housing all three workshops. The main aim is to strengthen the laboratories of user Departments by way of equipment maintenance, calibration of test and measuring instruments, fabrication of gadgets and instruments, attachments required for some imported instrument so as to adapt them to Indian electrical standards etc. The Glass Blowing workshop is mostly involved in design and fabrication of glass apparatus as per the design submitted by researchers, which are otherwise not available generally in the market and repair of costly glass apparatus. The work undertaken by USIC can be broadly classified as analytical services for sophisticated instruments, maintenance of equipment for Languages and Science Laboratory, fabrication of teaching aids, development of new instruments, thus covering entire objective of USIC.

Facilities:

Carl-Ziess Scanning Electron Microscope (SEM), Ametek EDAX/EDS System, High Vacuum Diffusion Pump, High Temperature Furnaces, Milling Machine, Lathe Machine, Drilling Machine etc.

Staff/Faculties:

Coordinator: Gad, Rajendra S. Email - rsgad@unigoa.ac.in , Ph: 8669609217

Technical Officer-I

Shri M. G. Lanjewar

Phone No (Off) : 8669609223

Email : madhusudan@unigoa.ac.in

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(e) REMOTE SENSING LABORATORY

A Remote Sensing Laboratory has been established with financial assistance from Indian Space Research Organisation (ISRO). The facilities of the laboratory include hardware consisting of five computers and software necessary for image processing. Image processing package such as ERDAS IMAGINE has been procured. An interdisciplinary programme has been introduced across the different faculties where remote sensing technique has application. The laboratory provides hands on training to students who opt for interdisciplinary programme on remote sensing and research and thus cater to the county's need for trained manpower in this field. All the instruments necessary for in-situ observations of radiance and irradiance, spectrophotometer for analysing the optically active constituents from samples and sunphotometer for measuring aerosol optical depth have also been procured. At present there are many R&D projects funded by different agencies like Naval Research Bard, Space Applications Centre, Space Physics Laboratory of VSSC, ISRO and Indian National Centre for Ocean Information Service of Ministry of Earth Sciences, Delhi. All these projects are carried out by Department of Marine Sciences for which the laboratory has been used extensively.

Co-ordinator: Menon, Harilal B. Email - hbmenon@unigoa.ac.in, Ph: 8669609233

(f) COMPUTER CENTRE, CAMPUS NETWORK AND INTERNET FACILITY

All the Departments of the University are connected with a 1 gbps Fibre Optic backbone. The connectivity is distributed using cat 6 UTP, designed using Structured Cabling standards. Each Department is on a separate Vlan with routing through L3 switches, placed at distribution level in each building. All the faculties are equipped with Computer established a wireless network connectivity, connecting hostels, guesthouses, staff quarters and all the faculty buildings, providing 24X7 internet services. The facility is secured through a world class UTM (Universal Threat Management) hardware firewall and the wireless is maintained using a controller based hardware device. The internet facility is provided through 1 gbps 1:1 Internet Lease Line (ILL) from NKN, and a 100 mbps 1:1 ILL through a Private Operator. Both the links are working in aggregation mode with failover switching.

The Goa University Centre in houses, a Smart Cabinet based mini Data Centre, which provides Super Computing, Parallel Processing and Deep Learning facilities through PARAM (shavak), Super Computer from C-DAC. Softwares like installed on our computers, assist the students and teaching community in their research, learning and administrative activities. The Goa University also provides End Point Security (Antivirus, Legal version) to students on request. Computer Centre also extends its resources to teachers, students and research scholars, providing training, DTP, Printing and Computing facilities. Computer Centre is responsible for providing all the IT facility to the University.

Contact Person: Bandodkar, Sanjay. Email - hocc@unigoa.ac.in, Ph: 8669609015

(h) IPR Unit

A Committee has been formed to examine all matters pertaining to Intellectual Property Rights of Goa University. The members of this Committee are: J. A. E. Desa (Physics), B. F. Rodrigues (Botany) and V. S. Nadkarni (Chemistry). It is currently working towards establishing a system in which all University members can be regularly advised on the patentability of their work/ideas. The unit will also set up a database of published academic work of the scholars of Goa University. In January 2006 the Mumbai Patent office awarded an Indian Patent to Goa University. The first inventor is one of the faculty members of Goa University.

(j) CAREER COUNSELLING & PLACEMENT CELL

Goa University has established a Career Counseling& Placement Cell with a view to counsel students especially with regard to emerging careers, impart them soft skills and act as an interface between the industry and the students. The objectives of the Cell are:

- I. To disseminate information on placement avenues in academia/industry/research institutions.
- II. To conduct training/ workshops in soft skills with a view to prepare students for the rigours of

screening tests, group discussions, personal interviews, etc.

- III. To conduct seminars, workshops on emerging professions, professionalism, leadership, entrepreneurship, etc.
- IV. To act as an interface between industry and the students and facilitate industry-institution linkages.
- V. To facilitate campus-based placement activity.

The Cell facilitates pre-placement and placement activity both on and off the campus and invites industrial/commercial establishments to avail the services of the Cell for campus placements.

(k) GOA UNIVERSITY ALUMNI ASSOCIATION, GOA (GUAAG)

Goa University Alumni Association enrolls ex-students of Goa University as well as erstwhile students of Centre for Post Graduate Instruction and Research (CPIR) as life members with a membership fee of Rs. 1000/-. The objective being not only to revive nostalgia amongst alumni from various disciplines but to also foster exchange of views and ideas with its alma mater and students and ultimately to be beacon to the State. To register click the link here <https://www.unigoa.ac.in/links/goa-university-alumni-association.html>.

Contact Person: Ghadi, Sanjeev, Director; Email: alumni@unigoa.ac.in, Ph.: 8669609242

(l) NATIONAL SERVICE SCHEME (NSS)

The NSS Cell, Goa University is very active with 33 Colleges having 128 NSS units and 1 College having Self finance NSS Unit.

Shri Sanjiv K. Shirodkar, Associate Professor, is a Part-time N.S.S. Coordinator of NSS Cell, Goa University since 2017 till date.

The NSS Cell, Goa University supervises the N.S.S. activities carried out by all the 34 affiliated colleges including self finance N.S.S. units of one College.

The total no. of students registered as N.S.S. volunteers by all the N.S.S. units are around 12300.

Every N.S.S. volunteer has to put in 240 hours of social work in 2 years and attend one Seven Days Residential N.S.S. Special Camp.

Some of the prominent activities carried under the supervision of the N.S.S. Cell, Goa University are International Day of Yoga, Swachhta Pakhwada (01st August to 15th August), Mahatma Gandhi Celebration, Poshan Maha, Ek Bharat Shresth Bharat Abhiyaan, working in adopted village, Blood Donation Camps, Medical Health Check-up Camps, Tree Plantation (Vanamohatsav), Celebration of Constitution Day, FIT India Walkathon/Cyclothon, Swachhta Pakhwada (16th January to 31st January), National Road Safety Week, Celebration of National Girl Child Day, Celebration of National Voters Day, Celebration of International Women's Day, Poshan Rally, Rallies on other social issues, Programmes on Disaster Management, Self Defense for Girl Child, Distribution of IEC Materials, Distribution of iron and/folic Acid Tablets, Cleaning of schools and colleges, Cleanliness drive to clean street and common places, Shramadan Programme, Programmes on Conservation of water/ Water Harvesting/ watershed development, etc.

Besides Regular N.S.S. activities the N.S.S. volunteers also participate in National Integration Camps, Adventure Camps, Pre-Rd camps, RD Parade.

The affiliated colleges under the supervision of N.S.S. Cell, Goa University also organises Seven days Residential N.S.S. Special Camps every year.

The N.S.S. Advisory Committee of Goa University holds N.S.S. Advisory Committee meeting atleast twice in a year to review the activities undertaken by the N.S.S. units of the affiliated colleges under the overall supervision of N.S.S. Cell, Goa University.

Co-ordinator: **Shirodkar, Sanjiv K.** MES's College of Arts & Commerce, Zuarinagar, Goa.

Email - unigoanss@gmail.com, Ph.: 8669609067

(m) COLLEGE DEVELOPMENT COUNCIL

The College Development Council of Goa University is a liaison between affiliated colleges and the University Grants Commission (UGC). It makes available information to the colleges about the various grants available for development from UGC and other institution.

The College Development Council also conducts programs and activities for the colleges in association with the Directorate of Higher Education in the interest of enhancing the quality of Higher Education in the state.

Co-ordinator: Nayak, Radhika S. Principal, S. S. Dempo College of Commerce and Economics, Cujira, Goa. Email - rsnayak3@gmail.com, Ph.: 8669609019

(n) INTERNAL COMPLAINTS COMMITTEE:

An Internal Complaints Committee (ICC), which includes female students, has been constituted at the University, with members drawn from the teaching faculty, student community, administration and a nominee of Goa State Women's Commission. As and when required the Committee works in collaboration with the Directorate of Students' Welfare (DSW) for the benefit of the students in general and with the Centre for Women's Studies for the benefit of the female employees. Functions of the Committee relate to sensitisation regarding the need for the prevention of sexual harassment of women, crisis management & mediation, redressal and reporting, in addition to the dissemination of necessary information to the needy. The students and parents can promptly get in touch with the Chairperson or the Director of DSW in case of any emergency. ICC conducts annual Sensitisation Programme for creating a harassment free, healthy inter-gender atmosphere on the campus across the student community, the faculty, the employees and other residents on the University campus.

Chairperson:

Kerkar, Savita S. Email - savita@unigoa.ac.in, iccg@unigoa.ac.in, Ph: 8669609243

(o) HOSTEL ACCOMMODATION DETAILS:

A HOSTEL ADMISSION

1. Students who are admitted to the Post Graduate Departments of Goa University shall be given first priority for admissions to the hostels. Research Scholars working in different R&D project of University Departments students registered for Ph.D. Degree in Goa University shall be given hostel facility subject to availability of vacant rooms. Applications of such students shall be forwarded through the concerned Principal Investigator/Supervising teacher and the Head of the Department to the competent authority of the University.
2. Admissions to the Hostel and allocation of rooms to students shall be at the discretion of the competent authority of the University.
3. An application for hostel accommodation should be submitted to the Hostel Warden in the prescribed form (which is available with the information bulletin) on payment of Rs. 25/- . The duly filled form should be submitted appended with:
 - a) One recent passport size and one Identity card size photograph.
 - b) A copy of fee receipt from the University/College for the course for which admission has been secured.

- c) Rent to be paid by Research scholars and scholars registered for Ph. D. degree
- 1) Full HRA will be deducted from Research scholars who are availing fellowship along with HRA as a separate component.
- 2) Research scholars availing fellowship as a consolidated amount (without any separate component of HRA) Rs. 1000=00 P.M.
- 3) Scholars registered for Ph.D. degree and not having any fellowship. In such cases hostel rent for the entire year needs to be paid in advance. Rs. 1000=00 P.M.
- d) Caution Deposit (Hostel Deposit) (Refundable) Rs. 3,000=00
- e) Fine per day for late payment of fees Rs. 10=00
- f) Fees per day for short duration stay of less than 25 days
(For Goa University students only) Rs. 75=00
- g) Special Fees per day for Summer research students Rs. 25=00
Caution deposit (short stay <25 days) Rs. NIL
Caution deposit (long stay ≥25 days) (Refundable) Rs. 3,000=00
- h) Issue of any Certificate Rs. 20=00
- 10. No fees paid in connection with the hostel admission, except the Caution Deposit, will be refunded or adjusted. However, under certain extra-ordinary and genuine situations, the competent authorities may consider the same, entirely at their discretion.
- 11. Regular students of Goa University shall not be permitted to reside at the hostel on daily payment basis. However, students seeking temporary stay during sports events, "Plateaunica", research field trips etc. shall be permitted to stay in the hostel on daily basis with the prior payment of the fees and approval of the Convener, Hostel Management Committee. Such facility may be availed by a student only once during an academic term and subject to maximum period of stay is 15 days.
- 12. Annual hostel fee is to be paid in one installment at the time of admission. Cases of students of MBA (Part – II) and MCA (Part – III) who intend to vacate the hostel for an internship will be dealt with in accordance with the rules and regulations of the University in force at that time.
- 13. Students admitted to the Hostel shall accept the room allotted to them by the Warden. The Warden reserves the right to re-allocate rooms during the term, if the situation so demands.

B. HOSTEL DISCIPLINE RULES:

(Rules detailed below are not exhaustive and may be amended by the University from time to time. Such amendments will be notified on the Hostel Notice Board.)

- 1. Hostel residents are required to observe the hostel rules and regulations including the GU Disciplinary Rules 2018 as well as the directives issued by the Warden or the Hostel Management Committee from time to time.
- 2. Before occupying the room, the resident should inspect all items carefully. If any damage is caused at a later stage, the resident shall be held responsible and necessary charges for the same shall be recovered from him/her.

3. All inmates of the Hostel are required to produce their University Identity Card /Hostel Identity Card before the security personnel while entering the Hostel.
4. Silence hours for study must be observed from 10.00 p.m. 8.00 a.m. No loud music should be played in the hostel.
5. Incoming telephone calls are permitted only from 8.30 a.m. to 10.00 p.m. Not more than three minutes should be used for an incoming call.
6. Women students should sign the Hostel register (kept at the Hostel entrance) before 8.00 p.m. (In case PG students) while in case of research students the timing is 8.30 p.m. Students with late pass should sign the register while entering the Ladies Hostel at night.
7. No girl student will be allowed to spend a night out or enter late after 8.00 p.m. in the hostel without a written request from the Parent or the Local Guardian.
8. For academic assignments, "Late Night Pass" on daily basis will be issued by the Warden to girl students on the basis of the recommendation of the HOD / Research supervisor / Project Supervisor.
9. Parents may be received at the Women's Hostel between 4.00 p.m. and 7.00 p.m. on weekdays and from 9.30 a.m. to 11.00 a.m. on Sundays and Public Holidays. Visitors are expected to wait in the 'Visitors' Room' and are not permitted to enter the hostel rooms or the common room.
10. The inmates shall maintain a high standard of personal hygiene and cleanliness. Misuse of bathrooms and toilets is a social offence and should be strictly avoided.
11. Use of electrical appliances such as Hot Plate, Immersion Heater, etc. is strictly prohibited. Cooking inside the rooms is also prohibited. Students violating this clause will be liable for payment of fine up to Rs. 1000/-.
12. All the facilities existing in the hostel should be utilized in a proper manner. The residents shall take care of University property, especially water coolers/ purifiers, geysers, on-off switches, etc. If any misuse of the said facility is observed, a general fine shall be paid by each resident as determined by the Warden, based on the damage caused to the hostel property.
13. Before vacating the Hostel, the student should intimate the Warden and obtain a "NO DUES CERTIFICATE". The application in prescribed form for refund of hostel Caution Deposit should be handed over to the Warden along with the cupboard keys at the time of vacating the Hostel Room.
14. Students going home on holidays or temporarily not residing in the hostel for more than 5 days should inform the Warden about the same in advance and hand over the keys of the room to the hostel authorities.
15. Disfiguring of walls by sticking posters, paintings etc. in the hostel is strictly prohibited. Similarly, no tampering with the electrical systems, study desk, ward-robos etc. will be permitted. A fine of Rs. 100/- per incidence of indiscipline or as given in The Goa University Students' Discipline and Conduct Rules 2018 shall be charged and if same is not paid within 7 days, it shall be deducted from caution deposit. Fans, tube lights etc. should be switched off when not required.
16. During repair and maintenance of the rooms/hostel, the inmates shall cooperate with the authorities and if required, the student may be asked to shift to a different room, as per the availability.

17. Smoking is strictly prohibited within the University campus. Possession or Consumption of liquor/drugs and indulging in any other unlawful activity is STRICTLY PROHIBITED in the hostel premises. Students are also not permitted to enter the hostel after consuming alcohol outside the campus.
18. Students are advised not to leave valuables such as gold ornaments, mobile phones, cash, etc. in their rooms. No complaint will be entertained in case of loss/theft.
19. The Chief Proctor and/or Warden is authorized to inspect the hostel rooms any time without giving any prior notice.
20. No student will be allowed to change an allotted room without the consent of the Warden. Students found violating this rule shall be liable for disciplinary action.
21. Students shall not entertain non-hostelite students or outsiders in their room. Hostelite students violating this clause will be liable for disciplinary action as specified in The Goa University Students' Discipline and Conduct Rules 2018. And if same is not paid within 7 days, it shall be deducted from caution deposit.
22. Ragging in any form is strictly prohibited. Ragging is a cognizable offence and any student indulging in such behavior will be dealt with severely in accordance with the guidelines of the Hon'ble Supreme Court of India and provisions of the Goa Prevention of Ragging Bill 2007.

Possible punishments for those found guilty of participation in or abetment of ragging include:
 - a. Cancellation of admission.
 - b. Suspension from attending classes.
 - c. Withholding / withdrawing scholarship/fellowship and other benefits.
 - d. Debarring from appearing in any test/examinations, etc.
 - e. Withholding results.
 - f. Debarring from representing the University in any international meet, tournament, youth festival etc.
 - g. Expulsion from the hostel.
 - h. Expulsion from the University and consequent debarring from admission to any other institution.
 - i. Fine up to Rs. 8000/-
 - j. Rigorous imprisonment.
23. Any hostel inmate found guilty of misconduct or breach of the above rules or of gross indiscipline or who is found to be a bad influence on other resident students, is liable to be expelled forthwith as per the provisions of The Goa University Students' Discipline and Conduct Rules 2018.
24. Ph.D. students/research scholars in R&D projects, who are employed shall not be granted admission to the Hostels. Any research students who take up employment after being admitted to the Hostel will be required to immediately notify the warden of the same and to vacate the Hostel within 7 days of taking up employment.

25. The Chief Proctor and/or chief warden reserves the right break open rooms in case of any suspected violation of hostel rules, suspected unlawful activities or on the basis of security risk perceived.
26. Once a student vacates the hostel, he/she will not be re-allotted hostel accommodation for a minimum period of 6 months. Every attempt will be made to provide hostel accommodation to all students.
27. Pets of all kinds are prohibited inside the hostel. Feeding stray dogs or cats in the hostel premises is not permitted.
28. All instructions/notices displayed on notice boards will be deemed to have been read by all residents and excuses for non-compliance of such instructions and notices will not be accepted. Residents are advised to look at the notice board everyday to acquaint themselves with latest information/orders.
29. Plastic Free Zone: Goa University campus is a 'Plastic Free Zone'. Residents should ensure that plastic bags are not used for any purpose whatsoever.
30. Vehicle and Parking: All hostelites are directed not to park their 2-wheelers in front of the entrance. The same should be parked in the designated parking shed/parking lot and should not be obstructing normal movement around the hostel.

Note: The hostelites shall note that in event of any misconduct or indiscipline or ragging in the hostel or for the purpose of maintaining discipline, the provisions of 'The Goa University Students' Discipline and Conduct Rules 2018' shall be applicable.

C. MESS CHARGES

1. It is mandatory for hostel inmates to join the hostel Mess. All students taking admission to the hostel shall have to pay the Mess charges as applicable for FULL YEAR in advance, along with payment of the hostel fees. It may be noted that a student shall be admitted to hostel only after full payment of hostel fees and mess fees as above.
2. Local students who may prefer to go home at the weekends are offered the option to pay Mess charges on the basis of only five days, week (i.e., excluding Saturday and Sunday).
3. Students shall not make any direct payment to the Mess contractor for the standard meals.
4. Evening tea/snacks are not included in the Mess charges and the students shall be required to pay towards such facilities availed, if any, directly to the Mess Contractor.
5. Mess will remain closed during the Breaks and Vacations notified in the University Handbook for the year. During vacation and holidays food will be provided on prior payment to the Mess Contractor.
6. Students who are officially required to stay away from the hostel for the purpose of research / sample collection, field trip, etc. for a period of minimum 3 days at a time shall be granted leave of absence from the Mess, provided such a request for exemption is certified by the Head of the Department/research supervisor and submitted to the warden at least 5 days in advance. In such cases the Mess fees shall be adjusted against pending Mess payments.
7. Due to annual process of tendering, in case, the catering service has to be re-tendered, difference in amount of fee collected shall have to be borne by the hostel students.

For details about the hostels, please visit the hostel webpage on Goa University website:

<https://www.unigoa.ac.in/facilities/hostelmess.html>

Hostel and other fees are subject to revision.

Application Forms for Hostel Accommodation, along with the information bulletin, may be obtained from the Hostel Wardens.

Chief Warden, Men's Hostel:	Dayanand, M. S., Goa Business School, Email: msd@unigoa.ac.in , Ph.: 8669609276, 8669609083
Warden, Men's Hostel:	C. Sudhir, Department of Physics Email: sudhir@unigoa.ac.in , Ph.: 8669609298
Chief Warden, Women's Hostel:	Kerkar, Savita S., Department of Biotechnology, Email: savita@unigoa.ac.in , Ph.: 8669609243
Warden, Women's Hostel:	Gaude, Pallavi P., Department of Physics Email: pallavi.pandhari@unigoa.ac.in Ph.: 8669609319
Warden, Research Scholar Hostels	Pednekar, Sulochana, Department of Women's Studies Email: sulochana@unigoa.ac.in Ph.: 86696909162



(p) DIRECTORATE OF STUDENTS' WELFARE & CULTURAL AFFAIRS

The students' welfare activities at Goa University are looked after by the Directorate of Students' Welfare.

The Directorate of Students' Welfare looks after two associations of students: (1) **Goa University Students' Council** representing the students from the colleges affiliated to Goa University and postgraduate students. (2) **Post Graduate Students' Union** representing postgraduate students of Goa University. The students' welfare activities are conducted through these two organizations. The Directorate organizes Inter-collegiate and Inter-University activities such as Youth Festivals, Workshops, Competitions, Seminars etc. in the field of art, music, dance, theatre, literature, social services etc. The students are prepared and helped for participation in students' activities organised by Universities, Government and Semi-Government institutions.

EARN WHILE YOU LEARN SCHEME

The Directorate of Students Welfare has introduced the **"Earn while you Learn"** Scheme to meet the financial needs of deserving students on the campus of Goa University.

STUDENTS AID FUND

Under Students' Aid Fund, deserving students are given financial assistance to meet their expenses on tuition fee, examination fee, purchase of books, etc.

PLATEAUNICA

This is an Inter Faculty Youth Festival organised by the Post Graduate Students' Union. The festival offers an opportunity for the Post Graduate Students to exhibit their talents in the field of Art, Culture &

Literature. Generally the Plateaunica is held for 2-3 days in the first week of February every year.

STUDENTS' SAFETY INSURANCE SCHEME

All students of Post Graduate Departments and undergraduate students of affiliated colleges are insured under this scheme and the students receive insurance benefits at the time of calamities such as accident, loss of part of body, death etc.

COUNSELLING SERVICES:

Counselling facility at the University is available to evolve self-awareness/ self-education through embodied somatic transformative practice. This includes:

- How to cultivate self-awareness to recognize debilitating patterns of thought, emotions and action and shift to more healthy and harmonious ways of being
- How to recognize one's strengths, and connect to one's own intuition, insight and innate wisdom.
- How to consider moving out of being a victim of one's story, to moving and shifting the story, and perhaps even coming to be creators of a new story
- Teaching how to be connected to self, environment, education and their lives
- Broadening perception and cognitive abilities through experiential practices
- Facilitating an environment in which they find ease, support and freedom within themselves so that their internal state enables them to transcend their problems, or self-debilitating patterns and habits naturally
- Understanding the importance of process-driven approach, instead of end-gaining
- Empowering individuals to be creative agents of their own change
- Training to recognize where they are and where they want to be Questions one may choose to look into:
 - Is my self-worth defined by my achievements?
 - How do I pursue my goals?
 - How do I treat myself, am I kind/ pushy/ self-critical/harsh etc.?
 - Are my choices conditioned?
 - What state are you in, are you tensed? Anxious? Tired? What is going on inside you?
 - Do I have a healthy interest in myself? How do take care of myself?
 - How to balance work and rest?
 - How to meditate?
 - How to be an empathetic and present leader?
 - How to be the change you want to see?
 - What are the boxes I am restricted by?
 - What are the masks I hide behind?
 - How to cultivate healthy relationships with myself and others?

Note: Space is open for anyone who wants to grow, to change, to learn how to be self-aware. Anyone who wants to open up, and learn how to create a holistic and healthy life for themselves. It is normal to want to learn how to help yourself, resolve issues that need to be addressed, heal from difficult experiences. Strict confidentiality will be maintained at all times.

Meet counselor by appointment (email - pushpanjali@unigoa.ac.in) OR

Walk-in to the office on Monday or Tuesday between 2.30pm-5.30pm

Counsellor: Sharma, Pushpanjali. Email pushpanjali@unigoa.ac.in, Ph.: 9540444709

Directorate of Students Welfare (DSW): Leo, Macedo. Email - macedo@unigoa.ac.in

Ph: 86696204955

(q) SPORTS

The Sports Section organizes Inter Collegiate Championship tournaments annually for men and women in the following events: Badminton, Table Tennis, Judo, Weight Lifting, Power Lifting, Best Physique, Chess, Cross Country, Cycling, Tennis, Tennikoit, Basketball, Swimming, Football, Athletics, Kabaddi, Handball, Hockey, Kho-Kho, Volleyball, Cricket, Taekwondo, Baseball. The winners and runners-up are

awarded with trophies, medals and certificates.

Goa University conducts selection trials to select the best players to represent the University at the Inter University Championships organised by Universities across the Country. Expenditure towards coaching camps, lodging, boarding, kit and travel is borne by the University.

Students participating in Inter Collegiate and Inter University Championships are given benefit of Sports Merit Marks as per Goa University Ordinances.

The Sports Section also conducts various intra-mural events for Post Graduates students. All sports activities are organized systematically and in a sporting atmosphere as per the scheduled, approved by the Sport Council of Goa University.

Asst. Director of Physical Education & Sports:

Fernandes, Milton. Email - milton@unigoa.ac.in Ph: 8669609018

(r) EXTRA-MURAL STUDIES AND EXTENSION SERVICES (EMS&ES):

The Directorate of Extra-Mural Studies and Extension Services was established on 20th June 1986 as per Article (5) of the Goa University Act. Extra Mural Studies and Extension Services is essentially a third dimension of Higher Education. The first two dimensions are formal teaching and research. The third dimension visualises a learning society at large. It includes adults, school drop-outs, professionals, housewives, slum population, street children and a host of learning groups who need not necessarily have a formal qualification to learn certain essential inputs.

The objectives of the Directorate are as follows: (a) To impart instruction to those who could not undergo normal education, but whose desire to be educated has remained intact. (b) To interact at all levels of education: Primary, Secondary, and Higher Secondary Non-formal education of adults, particularly women, farmers, workers and others whose understanding, skills, status etc. need to be uplifted. (c) To participate in rural development activities and to undertake action oriented research to solve local problems. (d) To make the common man aware of the impact of science and technology on daily life and to promote a scientific outlook and proper utilization of the products of science and technology. (e) To produce reading material and make it available to the people at low prices. (f) To collaborate with local voluntary organizations, industries, research institutions etc. to promote the objectives of the extra-mural studies and extension services. (g) To make people aware of their past and present history and culture and (h) To make people aware of their civil and social responsibility and obligations as well as their rights. Students who wish to help the Directorate in fulfilling its laid down aims and objectives are requested to meet the Hon. Director for further information.

Directorate of Extra Mural Studies and Extension Services:

Viegas, Anthony A. A. Email - aviegas@unigoa.ac.in, Ph: 8669609195

(s) Research & Development and Resource Mobilisation (RDRM Cell)

Research is an integral part of the academic activities of the Post-Graduate departments of the University. R&D Projects and Consultancies are carried out by the faculty members of Goa University. D-RDRM processes/reviews all research proposals to be submitted by University faculty to the funding agencies. It also co-ordinates between the funding agencies and the Project Investigator at the University for approved projects. To incentivize research and improve the quality of publications of faculty members, D-RDRM provides monetary incentive for research publications in SCOPUS/ Web of Knowledge indexed journals.

RDRM assists Intellectual Property Assessment Committee of the University in assessing the applications submitted by faculty members to file patents. It maintains a profile of faculty expertise and a list of the infrastructural facilities at the University for circulation to potential industry partners.

RDRM also arranges meetings between potential industry partners, funding agency representatives and the University faculty for promotion of sponsored research and new funding schemes.

RESEARCH POLICY

D-RDRM implements the research policy of the University. The main aim of this policy is to help the University and its faculty members achieve excellence in research and contribute to societal and public good. To incentivise research and improve the quality of publications of faculty members, D-RDRM provides a monetary incentive for research publications in SCOPUS/Web of Knowledge indexed journals. More details on GU Research Policy are available at: https://www.unigoa.ac.in/uploads/config_docs/20181022.154950~RDRM_GU-Research-Policy_final.pdf

GUIDELINES ON ACADEMIC ETHICS

Goa University expects all its members to adhere to the highest standards of academic ethics. This document will serve as a guide to implement these standards in all the departments on the University campus as well as the institutions affiliated to Goa University. For the University departments situated on the Taleigao Plateau the following guidelines are applicable. These are prepared taking into account different contexts of academic life which include teaching, conducting research, publishing papers and books, training and administration. For more details, please visit: https://www.unigoa.ac.in/uploads/config_docs/20181126.121243~Guidelines_Ethics_Research.pdf

INTELLECTUAL PROPERTY ASSESSMENT COMMITTEE

Prof. Savita Kerkar, Department of Biotechnology - Chairperson

Adv. Shalini Menezes - Legal Advisor

Director D-RDRM - Member Secretary

Two co-opted faculty members on a case to case basis with domain expertise or familiarity/experience in areas related to the creative work.

SEED MONEY FOR NEW FACULTY MEMBERS

University provides seed money to kick-start her/his research to all newly appointed faculty members. This grant can be used to purchase minor equipment including computer and its accessories for their research. Click here for Circular

https://www.unigoa.ac.in/uploads/config_docs/20181022.155004~RDRM_Seed-Money.pdf

Directorate of RDRM:

Pawar, Jyoti D., Goa Business School, Email - jdp@unigoa.ac.in, Ph: 8669609186.

(t) HEALTH CENTRE

The University Health Centre is a primary medical care unit on the University campus for the benefit of students and staff and their family members. It provides preventive, curative and promotive services at primary level. The facilities include:

- Outpatient examination and treatment.
- Medical emergencies and first aid.
- Medical certificates for various needs like hostel admission, driving license, sickness & fitness, etc.
- Medical facilities needed during University sports events.
- Health education and patient counseling.
- Medical Camps and Information, Education, Communication activities from time to time.

The Health Centre is also been recognized as DOTS (directly observed treatment short-course) centre for the eradication of the Tuberculosis from India. Patients with Tuberculosis from neighbouring villages of the campus visit the Centre for their on- going treatment.

The Health Centre also maintains a co-ordination with Directorate of Health Services, Goa Medical College and Indian Medical Association for various health programs.

Consultation Hours: 9:30 am to 5:45 pm on all working days

Health care units around the University campus There are good number of hospitals around the University campus with specialists and one can reach to these in short time during emergencies:

Medical Officer: Dr. Amavel Pereira, Email - amavel@unigoa.ac.in, 8669609088

(u) GOA UNIVERSITY CONSUMER CO-OPERATIVE SOCIETY LTD., GOA. (GUCCS LTD.)

The Society has been registered with the Registrar of Co-operative Societies, Govt. of Goa. The main objectives of the Society are to encourage thrift, self-help and cooperation among members of the Society to sell daily requirements of life/operations to the members and others and to act as agent for joint purchase of domestic and other requirements of the members and to undertake activities for promotion of economic, social and cultural welfare of its members. The membership is open to all permanent employees (teaching and non-teaching) of Goa University and all post graduate students of Goa University including research scholars and fellows as individual members. Each post graduate student will pay a non-refundable membership fee of Rs. 50/- and entrance fee of Rs. 25/- to become a member of the Society at the time of admission to the University. The President of Post Graduate Students Union of Goa University will represent the student members in the Board of Directors of the Goa University Consumer Co-operative Society. A copy of the byelaws of the Society and the list of promoters are available at the library counter.

Chairman: Sawkar, Vivekanand L. University Engineer, Email- ue@unigoa.ac.in Ph: 8669609016

(w) UGC NET & SET

The National Educational Testing Bureau of University Grants Commission (UGC) conducts National Eligibility Test (NET) to determine eligibility for lectureship and for award of Junior Research Fellowship (JRF) for Indian nationals in order to ensure minimum standards for the entrants in the teaching profession and research. The test is conducted in humanities (including languages), Social Sciences, Forensic Sciences, Environment Sciences, Computer Science and Applications and Electronic Science.

The UGC – National Eligibility Tests are conducted twice in a year, generally in the months of June and December. The notifications announcing the June and December examinations and the procedure for applying for UGC – NET are published in the months of March and September respectively in the weekly journal of nation-wide circulation, viz, *Employment News* and is also uploaded on the UGC website www.ugc.ac.in. The result of June, UGC-NET is declared generally in the month of October. Similarly December UGC-NET result is usually declared in the month of April. UGC-NET is conducted by National Testing Agency (NTA) following is the link for the same <https://ntanet.nic.in/ntanetcms/public/home.aspx>.

Similarly, Goa University is also a designated centre for the Maharashtra and Goa State Level Eligibility Test (SET) conducted by University of Pune as the State Agency accredited by UGC.

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(x) OTHER FACILITIES

Over the years, the University has developed several facilities for the benefit of the University community. In addition to canteens located at various points in the campus, full-fledged branch of State Bank of India along with ATM facility, stationery store, general store, etc. have been located at the Campus. The University also has a **Guest House** and an **International Guest House**, for the benefit of visiting faculty and other guests.

Incharge: **Leo Macedo, Deputy Registrar** : 8669609045
Guest House Reception (Shri Domingos De Melo) : 8669609080
International Guest House Reception (Shri Carvalho) : 8669609082

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**UGC REGULATIONS ON CURBING THE MENACE OF RAGGING IN
HIGHER EDUCATIONAL INSTITUTIONS, 2009.**

(Under Section 26 (1)(g) of the University Grants Commission Act, 1956)

PREAMBLE

In view of the directions of the Hon'ble Supreme Court in the matter of "University of Kerala v/s. Council, Principals, Colleges and others" in SLP no. 24295 of 2006 dated 16.05.2007 and that dated 8.05.2009 in Civil Appeal number 887 of 2009, and in consideration of the determination of the Central Government and the University Grants Commission to prohibit, prevent and eliminate the scourge of ragging including any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student, or indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary programme do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student, in all higher education institutions in the country, and thereby, to provide for the healthy development, physically and psychologically, of all students, the University Grants Commission, in consultation with the Councils, brings forth this Regulation. In exercise of the powers conferred by Clause (g) of sub-section (1) of Section 26 of the University Grants Commission Act, 1956, the University Grants Commission hereby makes the following Regulations, namely;

1. Title, commencement and applicability.-

- (iv) These regulations shall be called the "UGC Regulations on Curbing the Menace of Ragging in Higher Educational Institutions, 2009".
- (v) They shall come into force from the date of their publication in the Official Gazette.
- (vi) They shall apply to all the institutions coming within the definition of an University under sub-section (f) of section (2) of the University Grants Commission Act, 1956, and to all institutions deemed to be a university under Section 3 of the University Grants Commission Act, 1956, to all other higher educational institutions, or elements of such universities or institutions, including its departments, constituent units and all the premises, whether being academic, residential, playgrounds, canteen, or other such premises of such universities, deemed universities and higher educational institutions, whether located within the campus or outside, and to all means of transportation of students, whether public or private, accessed by students for the pursuit of studies in such universities, deemed universities and higher educational institutions.

2. Objectives.-

To prohibit any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student, or indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary programme do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student, with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student; and thereby, to eliminate ragging in all its forms from universities, deemed universities and other higher educational institutions in the country by prohibiting it under these Regulations, preventing its occurrence and punishing those who indulge in ragging as provided for in these Regulations and the appropriate law in force.

3. What constitutes Ragging.-Ragging constitutes one or more of any of the following acts:

- i any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student;
- ii indulging in rowdy or indisciplined activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student;
- iii asking any student to do any act which such student will not in the ordinary programme do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student;
- (vii) any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher;
- (viii) exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.
- (ix) any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students;
- (x) any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person;
- (xi) any act or abuse by spoken words, emails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student;
- (xii) any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.

4. Definitions.-

- (a) In these regulations unless the context otherwise requires,-

“Act” means, the University Grants Commission Act, 1956 (3 of 1956);

“Academic year” means the period from the commencement of admission of students in any programme of study in the institution up to the completion of academic requirements for that particular year.

“Anti-Ragging Helpline” means the Helpline established under clause (a) of Regulation 8.1 of these Regulations.

“Commission” means the University Grants Commission;

“Council” means a body so constituted by an Act of Parliament or an Act of any State Legislature for setting, or co-ordinating or maintaining standards in the relevant areas of higher education, such as the All India Council for Technical Education (AICTE), the Bar Council of India (BCI), the Dental Council of India (DCI), the Distance Education Council (DEC), the Indian Council of Agricultural Research (ICAR), the Indian Nursing Council (INC), the Medical Council of India (MCI), the National Council for Teacher Education (NCTE), the Pharmacy Council of India (PCI), etc. and the State Higher Education Councils.

“District Level Anti-Ragging Committee” means the Committee, headed by the District Magistrate, constituted by the State Government, for the control and elimination of ragging in institutions within the jurisdiction of the district.

“Head of the institution” means the Vice-Chancellor in case of a university or a deemed to be university, the Principal or the Director or such other designation as the executive head of the institution or the college is referred.

“Fresher” means a student who has been admitted to an institution and who is undergoing his/her first year of study in such institution.

“Institution” means a higher educational institution including, but not limited to an university, a deemed to be university, a college, an institute, an institution of national importance set up by

an Act of Parliament or a constituent unit of such institution, imparting higher education beyond 12 years of schooling leading to, but not necessarily culminating in, a degree (graduate, postgraduate and/or higher level) and/or to a university diploma.

“NAAC” means the National Academic and Accreditation Council established by the Commission under section 12(ccc) of the Act;

“State Level Monitoring Cell” means the body constituted by the State Government for the control and elimination of ragging in institutions within the jurisdiction of the State, established under a State Law or on the advice of the Central Government, as the case may be.

- (x) Words and expressions used and not defined herein but defined in the Act or in the General Clauses Act, 1897, shall have the meanings respectively assigned to them in the Act or in the General Clauses Act, 1897, as the case may be.

5. Measures for prohibition of ragging at the institution level:-

- (a) No institution or any part of it thereof, including its elements, including, but not limited to, the departments, constituent units, colleges, centres of studies and all its premises, whether academic, residential, playgrounds, or canteen, whether located within the campus or outside, and in all means of transportation of students, whether public or private, accessed by students for the pursuit of studies in such institutions, shall permit or condone any reported incident of ragging in any form; and all

institutions shall take all necessary and required measures, including but not limited to the provisions of these Regulations, to achieve the objective of eliminating ragging, within the institution or outside,

- (c) All institutions shall take action in accordance with these Regulations against those found guilty of ragging and/or abetting ragging, actively or passively, or being part of a conspiracy to promote ragging.

6. Measures for prevention of ragging at the institution level.-

- (a) An institution shall take the following steps in regard to admission or registration of students; namely,

Every public declaration of intent by any institution, in any electronic, audiovisual or print or any other media, for admission of students to any programme of study shall expressly provide that ragging is totally prohibited in the institution, and anyone found guilty of ragging and/or abetting ragging, whether actively or passively, or being a part of a conspiracy to promote ragging, is liable to be punished in accordance with these Regulations as well as under the provisions of any penal law for the time being in force.

The brochure of admission/instruction booklet or the prospectus, whether in print or electronic format, shall prominently print these Regulations in full. Provided that the institution shall also draw attention to any law concerning ragging and its consequences, as may be applicable to the institution publishing such brochure of admission/instruction booklet or the prospectus. Provided further that the telephone numbers of the Anti-Ragging Helpline and all the important functionaries in the institution, including but not limited to the Head of the institution, faculty members, members of the Anti-Ragging Committees and Anti-Ragging Squads, District and Sub-Divisional authorities, Wardens of hostels, and other functionaries or authorities where relevant, shall be published in the brochure of admission/instruction booklet or the prospectus.

Where an institution is affiliated to a University and publishes a brochure of admission/instruction booklet or a prospectus, the affiliating university shall ensure that the affiliated institution shall comply with the provisions of clause (a) and clause (b) of Regulation 6.1 of these Regulations.

The application form for admission, enrolment or registration shall contain an affidavit, mandatorily in English and in Hindi and/or in one of the regional languages known to the applicant, as provided in the English language in Annexure I to these Regulations, to be filled up and signed by the applicant to the effect that he/she has read and understood the provisions of

these Regulations as well as the provisions of any other law for the time being in force, and is aware of the prohibition of ragging and the punishments prescribed, both under penal laws as well as under these Regulations and also affirm to the effect that he/she has not been expelled and/or debarred by any institution and further aver that he/she would not indulge, actively or passively, in the act or abet the act of ragging and if found guilty of ragging and/or abetting ragging, is liable to be proceeded against under these Regulations or under any penal law or any other law for the time being in force and such action would include but is not limited to debarment or expulsion of such student.

The application form for admission, enrolment or registration shall contain an affidavit, mandatorily in English and in Hindi and/or in one of the regional languages known to the parents/guardians of the applicant, as provided in the English language in Annexure I to these Regulations, to be filled up and signed by the parents/guardians of the applicant to the effect that he/she has read and understood the provisions of these Regulations as well as the provisions of any other law for the time being in force, and is aware of the prohibition of ragging and the punishments prescribed, both under penal laws as well as under these Regulations and also affirm to the effect that his/her ward has not been expelled and/or debarred by any institution and further aver that his/her ward would not indulge, actively or passively, in the act or abet the act of ragging and if found guilty of ragging and/or abetting ragging, his/her ward is liable to be proceeded against under these Regulations or under any penal law or any other law for the time being in force and such action would include but is not limited to debarment or expulsion of his/her ward.

The application for admission shall be accompanied by a document in the form of, or annexed to, the School Leaving Certificate/Transfer Certificate/Migration Certificate/Character Certificate reporting on the inter-personal/social behavioural pattern of the applicant, to be issued by the school or institution last attended by the applicant, so that the institution can thereafter keep watch on the applicant, if admitted, whose behaviour has been commented in such document.

A student seeking admission to a hostel forming part of the institution, or seeking to reside in any temporary premises not forming part of the institution, including a private commercially managed lodge or hostel, shall have to submit additional affidavits countersigned by his/her parents/guardians in the form prescribed in Annexure I and Annexure II to these Regulations respectively along with his/her application.

Before the commencement of the academic session in any institution, the Head of the Institution shall convene and address a meeting of various functionaries/agencies, such as Hostel Wardens, representatives of students, parents/ guardians, faculty, district administration including the police, to discuss the measures to be taken to prevent ragging in the institution and steps to be taken to identify those indulging in or abetting ragging and punish them.

The institution shall, to make the community at large and the students in particular aware of the dehumanizing effect of ragging, and the approach of the institution towards those indulging in ragging, prominently display posters depicting the provisions of penal law applicable to incidents of ragging, and the provisions of these Regulations and also any other law for the time being in force, and the punishments thereof, shall be prominently displayed on Notice Boards of all departments, hostels and other buildings as well as at places, where students normally gather and at places, known to be vulnerable to occurrences of ragging incidents.

The institution shall request the media to give adequate publicity to the law prohibiting ragging and the negative aspects of ragging and the institution's resolve to ban ragging and punish those found guilty without fear or favour.

The institution shall identify, properly illuminate and keep a close watch on all locations known to be vulnerable to occurrences of ragging incidents.

The institution shall tighten security in its premises, especially at vulnerable places and intense policing by Anti-Ragging Squad, referred to in these Regulations and volunteers, if any, shall be resorted to at such points at odd hours during the first few months of the academic session.

The institution shall utilize the vacation period before the start of the new academic year to

launch a publicity campaign against ragging through posters, leaflets and such other means, as may be desirable or required, to promote the objectives of these Regulations.

The faculties/departments/units of the institution shall have induction arrangements, including those which anticipate, identify and plan to meet any special needs of any specific section of students, in place well in advance of the beginning of the academic year with an aim to promote the objectives of this Regulation.

Every institution shall engage or seek the assistance of professional counsellors before the commencement of the academic session, to be available when required by the institution, for the purposes of offering counselling to freshers and to other students after the commencement of the academic year.

The head of the institution shall provide information to the local police and local authorities, the details of every privately commercially managed hostels or lodges used for residential purposes by students enrolled in the institution and the head of the institution shall also ensure that the Anti-Ragging Squad shall ensure vigil in such locations to prevent the occurrence of ragging therein.

- (i) An institution shall, on admission or enrolment or registration of students, take the following steps, namely;

Every fresh student admitted to the institution shall be given a printed leaflet detailing to whom he/she has to turn to for help and guidance for various purposes including addresses and telephone numbers, so as to enable the student to contact the concerned person at any time, if and when required, of the Anti-Ragging Helpline referred to in these Regulations, Wardens, Head of the institution, all members of the anti-ragging squads and committees, relevant district and police authorities.

The institution, through the leaflet specified in clause (a) of Regulation 6.2 of these Regulations shall explain to the freshers, the arrangements made for their induction and orientation which promote efficient and effective means of integrating them fully as students with those already admitted to the institution in earlier years.

The leaflet specified in clause (a) of Regulation 6.2 of these Regulations shall inform the freshers about their rights as bona fide students of the institution and clearly instructing them that they should desist from doing anything, with or against their will, even if ordered to by the seniors students, and that any attempt of ragging shall be promptly reported to the Anti-ragging Squad or to the Warden or to the Head of the institution, as the case may be.

The leaflet specified in clause (a) of Regulation 6.2 of these Regulations shall contain a calendar of events and activities laid down by the institution to facilitate and complement familiarization of freshers with the academic environment of the institution.

The institution shall, on the arrival of senior students after the first week or after the second week, as the case may be, schedule orientation programmes as follows, namely; (i) joint sensitization programme and counselling of both freshers and senior students by a professional counsellor, referred to in clause

of Regulation 6.1 of these Regulations; (ii) joint orientation programme of freshers and seniors to be addressed by the Head of the institution and the anti-ragging committee; (iii) organization on a large scale of cultural, sports and other activities to provide a platform for the freshers and seniors to interact in the presence of faculty members; (iv) in the hostel, the warden should address all students; and may request two junior colleagues from the college faculty to assist the warden by becoming resident tutors for a temporary duration. (v) as far as possible faculty members should dine with the hostel residents in their respective hostels to instil a feeling of confidence among the freshers.

The institution shall set up appropriate committees, including the programme-in-charge, student advisor, Wardens and some senior students as its members, to actively monitor, promote and regulate healthy interaction between the freshers, junior students and senior students.

Freshers or any other student(s), whether being victims, or witnesses, in any incident of ragging,

shall be encouraged to report such occurrence, and the identity of such informants shall be protected and shall not be subject to any adverse consequence only for the reason for having reported such incidents.

Each batch of freshers, on arrival at the institution, shall be divided into small groups and each such group shall be assigned to a member of the faculty, who shall interact individually with each member of the group every day for ascertaining the problems or difficulties, if any, faced by the fresher in the institution and shall extend necessary help to the fresher in overcoming the same.

It shall be the responsibility of the member of the faculty assigned to the group of freshers, to coordinate with the Wardens of the hostels and to make surprise visits to the rooms in such hostels, where a member or members of the group are lodged; and such member of faculty shall maintain a diary of his/her interaction with the freshers under his/her charge.

Freshers shall be lodged, as far as may be, in a separate hostel block, and where such facilities are not available, the institution shall ensure that access of seniors to accommodation allotted to freshers is strictly monitored by wardens, security guards and other staff of the institution.

A round the clock vigil against ragging in the hostel premises, in order to prevent ragging in the hostels after the classes are over, shall be ensured by the institution.

It shall be the responsibility of the parents/guardians of freshers to promptly bring any instance of ragging to the notice of the Head of the Institution.

Every student studying in the institution and his/her parents/guardians shall provide the specific affidavits required under clauses (d), (e) and (g) of Regulation 6.1 of these Regulations at the time of admission or registration, as the case may be, during each academic year.

Every institution shall obtain the affidavit from every student as referred to above in clause (m) of Regulation 6.2 and maintain a proper record of the same and to ensure its safe upkeep thereof, including maintaining the copies of the affidavit in an electronic form, to be accessed easily when required either by the Commission or any of the Councils or by the institution or by the affiliating University or by any other person or organisation authorised to do so.

Every student at the time of his/her registration shall inform the institution about his/her place of residence while pursuing the course of study, and in case the student has not decided his/her place of residence or intends to change the same, the details of his place of residence shall be provided immediately on deciding the same; and specifically in regard to a private commercially managed lodge or hostel where he/she has taken up residence.

The Head of the institution shall, on the basis of the information provided by the student under clause

of Regulation 6.2, apportion sectors to be assigned to members of the faculty, so that such member of faculty can maintain vigil and report any incident of ragging outside the campus or en route while commuting to the institution using any means of transportation of students, whether public or private.

The Head of the institution shall, at the end of each academic year, send a letter to the parents/guardians of the students who are completing their first year in the institution, informing them about these Regulations and any law for the time being in force prohibiting ragging and the punishments thereof as well as punishments prescribed under the penal laws, and appealing to them to impress upon their wards to desist from indulging in ragging on their return to the institution at the beginning of the academic session next.

(a) Every institution shall constitute the following bodies; namely,

Every institution shall constitute a Committee to be known as the Anti-Ragging Committee to be nominated and headed by the Head of the institution, and consisting of representatives of civil and police administration, local media, Non-Government Organizations involved in youth activities, representatives of faculty members, representatives of parents, representatives of students belonging to the freshers'

category as well as senior students, non-teaching staff; and shall have a diverse mix of membership in terms of levels as well as gender.

It shall be the duty of the Anti-Ragging Committee to ensure compliance with the provisions of

these Regulations as well as the provisions of any law for the time being in force concerning ragging; and also to monitor and oversee the performance of the Anti-Ragging Squad in prevention of ragging in the institution.

Every institution shall also constitute a smaller body to be known as the Anti-Ragging Squad to be nominated by the Head of the Institution with such representation as may be considered necessary for maintaining vigil, oversight and patrolling functions and shall remain mobile, alert and active at all times. Provided that the Anti-Ragging Squad shall have representation of various members of the campus community and shall have no outside representation.

It shall be the duty of the Anti-Ragging Squad to be called upon to make surprise raids on hostels, and other places vulnerable to incidents of, and having the potential of, ragging and shall be empowered to inspect such places.

It shall also be the duty of the Anti-Ragging Squad to conduct an on-the-spot enquiry into any incident of ragging referred to it by the Head of the institution or any member of the faculty or any member of the staff or any student or any parent or guardian or any employee of a service provider or by any other person, as the case may be; and the enquiry report along with recommendations shall be submitted to the Anti-Ragging Committee for action under clause (a) of Regulation 9.1. Provided that the Anti-Ragging Squad shall conduct such enquiry observing a fair and transparent procedure and the principles of natural justice and after giving adequate opportunity to the student or students accused of ragging and other witnesses to place before it the facts, documents and views concerning the incident of ragging, and considering such other relevant information as may be required.

Every institution shall, at the end of each academic year, in order to promote the objectives of these Regulations, constitute a Mentoring Cell consisting of students volunteering to be Mentors for freshers, in the succeeding academic year; and there shall be as many levels or tiers of Mentors as the number of batches in the institution, at the rate of one Mentor for six freshers and one Mentor of a higher level for six Mentors of the lower level.

Every University shall constitute a body to be known as Monitoring Cell on Ragging, which shall coordinate with the affiliated colleges and institutions under the domain of the University to achieve the objectives of these Regulations; and the Monitoring Cell shall call for reports from the Heads of institutions in regard to the activities of the Anti-Ragging Committees, Anti - Ragging Squads, and the Mentoring Cells at the institutions, and it shall also keep itself abreast of the decisions of the District level Anti-Ragging Committee headed by the District Magistrate.

The Monitoring Cell shall also review the efforts made by institutions to publicize anti-ragging measures, soliciting of affidavits from parents/guardians and from students, each academic year, to abstain from ragging activities or willingness to be penalized for violations; and shall function as the prime mover for initiating action on the part of the appropriate authorities of the university for amending the Statutes or Ordinances or Bye-laws to facilitate the implementation of anti-ragging measures at the level of the institution.

(viii) Every institution shall take the following other measures, namely;

Each hostel or a place where groups of students reside, forming part of the institution, shall have a full-time Warden, to be appointed by the institution as per the eligibility criteria laid down for the post reflecting both the command and control aspects of maintaining discipline and preventing incidents of ragging within the hostel, as well as the softer skills of counselling and communicating with the youth outside the class-room situation; and who shall reside within the hostel, or at the very least, in the close vicinity thereof.

The Warden shall be accessible at all hours and be available on telephone and other modes of communication, and for the purpose the Warden shall be provided with a mobile phone by the institution, the number of which shall be publicised among all students residing in the hostel.

The institution shall review and suitably enhance the powers of Wardens; and the security personnel posted in hostels shall be under the direct control of the Warden and their performance shall be assessed by them.

The professional counsellors referred to under clause (o) of Regulation 6.1 of these Regulations shall, at the time of admission, counsel freshers and/or any other student(s) desiring counselling, in order to prepare them for the life ahead, particularly in regard to the life in hostels and to the extent possible, also involve parents and teachers in the counselling sessions.

- (i) The institution shall undertake measures for extensive publicity against ragging by means of audio-visual aids, counselling sessions, workshops, painting and design competitions among students and such other measures, as it may deem fit.
- (ii) In order to enable a student or any person to communicate with the Anti-Ragging Helpline, every institution shall permit unrestricted access to mobile phones and public phones in hostels and campuses, other than in class-rooms, seminar halls, library, and in such other places that the institution may deem it necessary to restrict the use of phones.
- (iii) The faculty of the institution and its non-teaching staff, which includes but is not limited to the administrative staff, contract employees, security guards and employees of service providers providing services within the institution, shall be sensitized towards the ills of ragging, its prevention and the consequences thereof.
- (iv) The institution shall obtain an undertaking from every employee of the institution including all teaching and non-teaching members of staff, contract labour employed in the premises either for running canteen or as watch and ward staff or for cleaning or maintenance of the buildings/lawns and employees of service providers providing services within the institution, that he/she would report promptly any case of ragging which comes to his/her notice.
- (v) The institution shall make a provision in the service rules of its employees for issuing certificates of appreciation to such members of the staff who report incidents of ragging, which will form part of their service record.
- (vi) The institution shall give necessary instructions to the employees of the canteens and messing, whether that of the institution or that of a service provider providing this service, or their employers, as the case may be, to keep a strict vigil in the area of their work and to report the incidents of ragging to the Head of the institution or members of the Anti-Ragging Squad or members of the Anti-Ragging Committee or the Wardens, as may be required.
- (vii) All Universities awarding a degree in education at any level, shall be required to ensure that institutions imparting instruction in such programmes or conducting training programme for teachers include inputs relating to anti-ragging and the appreciation of the relevant human rights, as well as inputs on topics regarding sensitization against corporal punishments and checking of bullying amongst students, so that every teacher is equipped to handle at least the rudiments of the counselling approach.
- (viii) Discreet random surveys shall be conducted amongst the freshers every fortnight during the first three months of the academic year to verify and crosscheck whether the institution is indeed free of ragging or not and for the purpose the institution may design its own methodology of conducting such surveys.
- m) The institution shall cause to have an entry, apart from those relating to general conduct and behaviour, made in the Migration/Transfer Certificate issued to the student while leaving the institution, as to whether the student has been punished for committing or abetting an act of ragging, as also whether the student has displayed persistent violent or aggressive behaviour or any inclination to harm others, during his course of study in the institution.

Notwithstanding anything contained in these Regulations with regard to obligations and responsibilities pertaining to the authorities or members of bodies prescribed above, it shall be the general collective responsibility of all levels and sections of authorities or functionaries including members of the faculty and employees of the institution, whether regular or temporary, and employees of service providers providing service within the institution, to prevent or to act promptly against the occurrence of ragging or any incident of ragging which comes to their notice.

The Heads of institutions affiliated to a University or a constituent of the University, as the case may be, shall, during the first three months of an academic year, submit a weekly report on the

status of compliance with Anti-Ragging measures under these Regulations, and a monthly report on such status thereafter, to the Vice-Chancellor of the University to which the institution is affiliated to or recognized by.

The Vice Chancellor of each University, shall submit fortnightly reports of the University, including those of the Monitoring Cell on Ragging in case of an affiliating university, to the State Level Monitoring Cell.

(c) Action to be taken by the Head of the institution.- On receipt of the recommendation of the Anti Ragging Squad or on receipt of any information concerning any reported incident of ragging, the Head of institution shall immediately determine if a case under the penal laws is made out and if so, either on his own or through a member of the Anti-Ragging Committee authorised by him in this behalf, proceed to file a First Information Report (FIR), within twenty four hours of receipt of such information or recommendation, with the police and local authorities, under the appropriate penal provisions relating to one or more of the following, namely;

- (iii) Abetment to ragging;
- (iv) Criminal conspiracy to rag;
- (v) Unlawful assembly and rioting while ragging;
- (vi) Public nuisance created during ragging;
- (vii) Violation of decency and morals through ragging;
- (viii) Injury to body, causing hurt or grievous hurt;
- (ix) Wrongful restraint;
- (x) Wrongful confinement;
- (xi) Use of criminal force;
- (xii) Assault as well as sexual offences or unnatural offences;
- (xiii) Extortion;
- (xiv) Criminal trespass;
- (xv) Offences against property;
- (xvi) Criminal intimidation;
- (xvii) Attempts to commit any or all of the above mentioned offences against the victim(s);
- (xviii) Threat to commit any or all of the above mentioned offences against the victim(s);
- (xix) Physical or psychological humiliation;
- (xx) All other offences following from the definition of "Ragging".

Provided that the Head of the institution shall forthwith report the occurrence of the incident of ragging to the District Level Anti-Ragging Committee and the Nodal officer of the affiliating University, if the institution is an affiliated institution. Provided further that the institution shall also continue with its own enquiry initiated under clause 9 of these Regulations and other measures without waiting for action on the part of the police/local authorities and such remedial action shall be initiated and completed immediately and in no case later than a period of seven days of the reported occurrence of the incident of ragging.

8. Duties and Responsibilities of the Commission and the Councils.-

(i) The Commission shall, with regard to providing facilitating communication of information regarding incidents of ragging in any institution, take the following steps, namely;

The Commission shall establish, fund and operate, a toll-free Anti-Ragging Helpline, operational round the clock, which could be accessed by students in distress owing to ragging related incidents.

Any distress message received at the Anti-Ragging Helpline shall be simultaneously relayed to the Head of the Institution, the Warden of the Hostels, the Nodal Officer of the affiliating University, if the incident reported has taken place in an institution affiliated to a University, the concerned District authorities and if so required, the District Magistrate, and the Superintendent of Police, and shall also be web enabled so as to be in the public domain simultaneously for the media and citizens to access it.

The Head of the institution shall be obliged to act immediately in response to the information received from the Anti-Ragging Helpline as at sub-clause (b) of this clause.

The telephone numbers of the Anti-Ragging Helpline and all the important functionaries in every institution, Heads of institutions, faculty members, members of the anti-ragging committees and anti ragging squads, district and sub-divisional authorities and state authorities, Wardens of hostels, and other functionaries or authorities where relevant, shall be widely disseminated for access or to seek help in emergencies.

The Commission shall maintain an appropriate data base to be created out of affidavits, affirmed by each student and his/her parents/guardians and stored electronically by the institution, either on its or through an agency to be designated by it; and such database shall also function as a record of ragging complaints received, and the status of the action taken thereon.

The Commission shall make available the database to a non-governmental agency to be nominated by the Central Government, to build confidence in the public and also to provide information of non compliance with these Regulations to the Councils and to such bodies as may be authorized by the Commission or by the Central Government.

- (ii) The Commission shall take the following regulatory steps, namely;

The Commission shall make it mandatory for the institutions to incorporate in their prospectus, the directions of the Central Government or the State Level Monitoring Committee with regard to prohibition and consequences of ragging, and that non-compliance with these Regulations and directions so provided, shall be considered as lowering of academic standards by the institution, therefore making it liable for appropriate action.

- (i) The Commission shall verify that the institutions strictly comply with the requirement of getting the affidavits from the students and their parents/guardians as envisaged under these Regulations.
- (ii) The Commission shall include a specific condition in the Utilization Certificate, in respect of any financial assistance or grants-in-aid to any institution under any of the general or special schemes of the Commission that the institution has complied with the anti-ragging measures.
- (iii) Any incident of ragging in an institution shall adversely affect its accreditation, ranking or grading by NAAC or by any other authorized accreditation agencies while assessing the institution for accreditation, ranking or grading purposes.
- (iv) The Commission may accord priority in financial grants-in-aid to those institutions, otherwise eligible to receive grants under section 12B of the Act, which report a blemish less record in terms of there being no reported incident of ragging.
- (v) The Commission shall constitute an Inter-Council Committee, consisting of representatives of the various Councils, the Non-Governmental agency responsible for monitoring the database maintained by the Commission under clause (g) of Regulation 8.1 and such other bodies in higher education, to coordinate and monitor the anti-ragging measures in institutions across the country and to make recommendations from time to time; and shall meet at least once in six months each year.
- (vi) The Commission shall institute an Anti-Ragging Cell within the Commission as an institutional mechanism to provide secretarial support for collection of information and monitoring, and to coordinate with the State Level Monitoring Cell and University level Committees for effective implementation of anti-ragging measures, and the Cell shall also coordinate with the Non-Governmental agency responsible for monitoring the database maintained by the Commission appointed under clause (g) of Regulation 8.1.

9. Administrative action in the event of ragging.-

- (iii) The institution shall punish a student found guilty of ragging after following the procedure and in the manner prescribed herein under:

The Anti-Ragging Committee of the institution shall take an appropriate decision, in regard to

punishment or otherwise, depending on the facts of each incident of ragging and nature and gravity of the incident of ragging established in the recommendations of the Anti-Ragging Squad.

The Anti-Ragging Committee may, depending on the nature and gravity of the guilt established by the Anti-Ragging Squad, award, to those found guilty, one or more of the following punishments, namely;

Suspension from attending classes and academic privileges.

Withholding/ withdrawing scholarship/ fellowship and other benefits.

Debarring from appearing in any test/ examination or other evaluation process.

Withholding results.

Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.

Suspension/ expulsion from the hostel.

Cancellation of admission.

Rustication from the institution for period ranging from one to four semesters.

Expulsion from the institution and consequent debarring from admission to any other institution for a specified period. Provided that where the persons committing or abetting the act of ragging are not identified, the institution shall resort to collective punishment.

An appeal against the order of punishment by the Anti-Ragging Committee shall lie, in case of an order of an institution, affiliated to or constituent part, of a University, to the Vice-Chancellor of the University; in case of an order of a University, to its Chancellor.

In case of an institution of national importance created by an Act of Parliament, to the Chairman or Chancellor of the institution, as the case may be.

- (iv) Where an institution, being constituent of, affiliated to or recognized by a University, fails to comply with any of the provisions of these Regulations or fails to curb ragging effectively, such University may take any one or more of the following actions, namely;

(vi) Withdrawal of affiliation/recognition or other privileges conferred.

(vii) Prohibiting such institution from presenting any student or students then undergoing any programme of study therein for the award of any degree/diploma of the University.

Provided that where an institution is prohibited from presenting its student or students, the Commission shall make suitable arrangements for the other students so as to ensure that such students are able to pursue their academic studies.

(a) Withholding grants allocated to it by the university, if any

(b) Withholding any grants channelized through the university to the institution.

(c) Any other appropriate penalty within the powers of the university.

- (1) Where in the opinion of the appointing authority, a lapse is attributable to any member of the faculty or staff of the institution, in the matter of reporting or taking prompt action to prevent an incident of ragging or who display an apathetic or insensitive attitude towards complaints of ragging, or who fail to take timely steps, whether required under these Regulations or otherwise, to prevent an incident or incidents of ragging, then such authority shall initiate departmental disciplinary action, in accordance with the prescribed procedure of the institution, against such member of the faculty or staff.

Provided that where such lapse is attributable to the Head of the institution, the authority designated to appoint such Head shall take such departmental disciplinary action; and such action shall be without prejudice to any action that may be taken under the penal laws for abetment of ragging for failure to take timely steps in the prevention of ragging or punishing any student found guilty of ragging.

- (2) The Commission shall, in respect of any institution that fails to take adequate steps to prevent ragging or fails to act in accordance with these Regulations or fails to punish perpetrators or incidents of ragging suitably, take one or more of the following measures, namely;
Withdrawal of declaration of fitness to receive grants under section 12B of the Act.

Withholding any grant allocated.

Declaring the institution ineligible for consideration for any assistance under any of the general or special assistance programmes of the Commission.

Informing the general public, including potential candidates for admission, through a notice displayed prominently in the newspapers or other suitable media and posted on the website of the Commission, declaring that the institution does not possess the minimum academic standards.

Taking such other action within its powers as it may deem fit and impose such other penalties as may be provided in the Act for such duration of time as the institution complies with the provisions of these Regulations.

Provided that the action taken under this clause by the Commission against any institution shall be shared with all Councils.

(Dr. R. K. Chauhan)
Secretary

Provision exists for online filing of affidavits by students and their parents on a web portal created by UGC

www.antiragging.in/upload/Infopack/AntiRagging_How%20To%20Fill%20Affidavit.pdf
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The same is permanently stored in the data base of UGC and a reference number is given to the students who can take a print of the undertaking and submit to the University. Further, the requirement of the oath commissioner to sign on the affidavit has been done away with vide a circular of the UGC dated 28 May 2013
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https://www.antiragging.in/upload/Infopack/Notarising_an_Affidavit.pdf .

The entire information may be accessed at www.antiragging.in/site/Infopack.aspx . Students and Parents may file online affidavits and submit a signed copy to the Department concerned.
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(This Affidavit can be submitted online at

(www.antiragging.in/upload/Infopack/AntiRagging_How%20To%20Fill%20Affidavit.pdf***)***

Signed printouts must be submitted to the concerned Department).

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THE GOA UNIVERSITY STUDENTS' DISCIPLINE AND CONDUCT RULES 2018

Preamble: Students indiscipline leads to serious issues including ragging. It has been observed by Hon'ble Courts of Law and UGC that common places where indiscipline/ragging could occur includes canteens and hostels. This necessitates relooking into disciplinary rules for hostel management as well as Disciplinary Rules by Goa University, probably in the year 1988. A proctorial system needs to be established as suggested by the Academic Council of the Goa University.

Whereas it is considered necessary and expedient to frame rules under which disciplinary action may be taken at various levels against students of the University Teaching Departments/Schools/Centers, established and maintained by Goa University.

The following Rules are framed under section 22 (q) of the Goa University Act, 1984 read with clause 5 of the Statute no. 26.

Before proceeding further, the Committee would like to reproduce some important guidelines in this context:

Section 22 (q) of GU Act, 1984 read with clause 5 of Statute 26 provides for the Maintenance of discipline among students of the University –

- (1) All powers relating to discipline and disciplinary action in relation to student of the University shall vest in the Vice-Chancellor.*
- (2) The Vice-Chancellor may delegate all or any of his powers as he deems proper to the Registrar and to such other officers as he may specify in this behalf.*
- (3) Without prejudice to the generality of his powers relating to the maintenance of discipline and taking such action, as may seem to him appropriate for the maintenance of discipline, the Vice-Chancellor may, in the exercise of his powers, by order, direct that any student or student be expelled or restricted for a specified period or be not admitted to a course or courses of study in a college, institution or Department of the University for a stated period or be punished with fine for an amount to be specified in the order or be debarred from taking an examination or examinations conducted by the University, college, institution or a Department for one or more years, or that the results of the students or students concerned in the examination or examinations in which he or they have appeared be cancelled.*
- (4) The Principals of the colleges, institutions, Head of Special Centers, Deans of Faculties and Heads of teaching Departments in the University shall have the authority to exercise all such disciplinary powers over the students in their respective colleges, institutions Special Centers, Faculties and teaching Departments in the University as may be necessary for proper conduct of such colleges, institutions, special centers, faculties and teaching in the departments.*
- (5) Without prejudice to the powers of the Vice-Chancellor, the Principals and other persons specified in clause (4), detailed rules of discipline and proper conduct shall be made by the University. The Principals of colleges, institutions, Heads of Special Centers, Deans of Schools of Studies and Heads of teaching Departments in the University may also make such supplementary rules as they deem necessary for the aforesaid purpose. Every student shall be supplied with a copy of the rule made by the University and a copy of the supplementary rules shall be supplied to the students concerned.*

- (6) *At the time of admission, every student shall be required to sign a declaration to the effect that he submits himself to the disciplinary jurisdiction of the Vice-Chancellor and other authorities of the University.*

Hon'ble Supreme Court of India delivered many judgements during 2001-2009 defining ragging and giving directives to curb the problems:

Any disorderly conduct whether by words spoken or written or by an act which the effect of teasing, treating or handling with rudeness any other student, indulging in rowdy or indisciplined activities which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in a fresher or a junior student or asking the students to do any act or perform something which such student will not do in the ordinary course and which has the effect of causing or generating a sense of shame or embarrassment so as to adversely affect the physique or psyche of a fresher or a junior student.

- ***Ragging is as severe a criminal act as rape.***
- ***FIR will be filed without any delay.***
- ***Such cases will be accorded priority trial.***
- ***Those found guilty may be fined up to Rs. 8,000/-***
- ***Those found guilty may be expelled up to four semesters.***
- ***Those found guilty may be denied admission elsewhere.***
- ***Authorities are also accountable for any failure or delay.***
- ***Defaulter institutions are likely to lose grants.***

Important Clauses of UGC Regulations on CURBING THE MENACE OF RAGGING in Higher Educational Institutions 2009 to be noted by the students.

CLAUSE 3: WHAT CONSTITUTES RAGGING?

Ragging constitutes one or more of any of the following acts:

- a) *Any conduct by any student or students whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student.*
- b) *Indulging in rowdy or indiscipline activities by any student or students which causes or is likely to cause annoyance, hardship, physical or psychological harm or to raise fear or apprehension thereof in any fresher or any other student.*
- c) *Asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student.*
- d) *Any act by a senior student that prevents, disrupts or disturbs the regular academic activity of any other student or a fresher.*
- e) *Exploiting the services of a fresher or any other student for completing the academic tasks assigned to an individual or a group of students.*
- f) *Any act of financial extortion or forceful expenditure burden put on a fresher or any other student by students*
- g) *Any act of physical abuse including all variants of it: sexual abuse, homosexual assaults, stripping, forcing obscene and lewd acts, gestures, causing bodily harm or any other danger to health or person;*

- h) Any act or abuse by spoken words, emails, post, public insults which would also include deriving perverted pleasure, vicarious or sadistic thrill from actively or passively participating in the discomfiture to fresher or any other student.
- i) Any act that affects the mental health and self-confidence of a fresher or any other student with or without an intent to derive a sadistic pleasure or showing off power, authority or superiority by a student over any fresher or any other student.

CLAUSE 7: ACTION TO BE TAKEN BY THE HEAD OF THE INSTITUTION:

On receipt of the recommendation of the Anti-Ragging Squad or on receipt of any information concerning any reported incident of ragging, the Head of Institution shall immediately determine if a case under the panel laws is made out and if so, either on his own or through a member of the Anti-Ragging Committee, authorized by him in this behalf, proceed to file a First Information Report (FIR), within twenty-four hours of receipt of such information or recommendation. with the police and local authorities, under the appropriate penal provisions relating to one or more of the following, namely;

- i. Abetment to ragging;
- ii. Criminal conspiracy to rag;
- iii. Unlawful assembly and rioting while ragging;
- iv. Public nuisance created during ragging;
- v. Violation of decency and morals through ragging;
- vi. Injury to body, causing hurt or grievous hurt;
- vii. Wrongful restraint;
- viii. Wrongful confinement;
- ix. Use of criminal force;
- x. Assault as well as sexual offences or unnatural offences;
- xi. Extortion;
- xii. Criminal trespass;
- xiii. Offences against property;
- xiv. Criminal intimidation;
- xv. Attempts to commit any or all of the above-mentioned offences against the victim(s);
- xvi. Threat to commit any or all of the above-mentioned offence against the victim(s);
- xvii. Physical or psychological humiliation;
- xviii. All other offence following from the definition of “ragging”

Provided that the Head of the Institution shall forthwith report the occurrence of the incident of ragging to the District Level Anti-Ragging Committee and the Nodal officer of the affiliating University, if the institution is an affiliated institution.

Provided further that the institution shall also continue with its own enquiry initiated under clause 9 of these Regulations and other measures without waiting for action on the part of the police/local authorities and such remedial action shall be initiated and completed immediately and in no case later than a period of seven days of the reported occurrence of the indent of ragging.

CLAUSE 9: ADMINISTRATIVE ACTION IN THE EVENT OF RAGGING:

- 9.1 The institution shall punish a student found guilty of ragging after following the procedure and in the manner prescribed here in under:

- a) *The Anti-Ragging Committee of the institution shall take an appropriate decision, in regard to punishment or otherwise, depending on the facts of each incident of ragging and nature and gravity of the incident of ragging established in the recommendations of the Anti-Ragging Squad.*
- b) *The Anti-Ragging Committee may, depending on the nature and gravity of the guilt established by the Anti-Ragging Squad, award, to those found guilty, one or more of the following punishments, namely;*
 - i. *Suspension from attending classes and academic privileges.*
 - ii. *Withholding/ withdrawing scholarship/ fellowship and other benefits.*
 - iii. *Debarring from appearing in any test/ examination or other evaluation process.*
 - iv. *Withholding results.*
 - v. *Debarring from representing the institution in any regional, national or international meet, tournament, youth festival, etc.*
 - vi. *Suspension/ expulsion from the hostel.*
 - vii. *Cancellation of admission.*
 - viii. *Rustication from the institution for period ranging from one to four semesters.*
 - ix. *Expulsion from the institution and consequent debarring from admission to any other institution for a specified period.*
Provided that where the persons committing or abetting the act of ragging are not identified, the institution shall resort to collective punishment.
- c) *An appeal against the order of punishment by the Anti-Ragging Committee shall lie,*
 - (i) *in case of an order of an institution, affiliated to or constituent part, of a University, to the Vice-Chancellor of the University;*
 - (ii) *in case of an order of a University, to its Chancellor.*
 - (iii) *in case of an institution of national importance created by an Act of Parliament, to the Chairman or Chancellor of the institution, as the case may be.*

The Goa University Students' Discipline and Conduct Rules 2018.

1. SHORT TITLE AND COMMENCEMENT

- (a) These Rules shall be called "The Goa University Students' Discipline and Conduct Rules 2018" hereafter referred to as the "Rules".
- (b) These Rules shall come into force with effect from the date of their notification.

2. APPLICATION OF RULES

- (a) These Rules shall apply to all students of the University whether admitted prior to the commencement of these Rules or after the commencement of these Rules.
- (b) Any breach of discipline and conduct committed by a student inside or outside the Goa University Campus shall fall under the purview of these Rules.
- (c) Without prejudice to the generality of the power to enforce discipline under Section 22 (q) of the Goa University Act, 1984 and Statue 26 thereunder, the acts mentioned in Rules 4 shall amount to acts of misconduct or indiscipline or both.
- (d) These rules are not meant to deny the democratic rights of the students to dissent/air their grievances/protest in a peaceful and lawful manner.
- (e) Peaceful and lawfully conducted sit-ins/*dharanas* at a designated place with prior intimation to the University administration will not invite any punishment under these rules.

3. DEFINITIONS:

For the purpose of application of these Rules-

- (a) 'Department' means any teaching Department established and maintained by the Goa University offering P.G. Degree/Diploma/Certificate/Integrated Courses and also includes Schools, Centers, Library, Hostels, Play grounds, Canteens, Shopping Centers, Gymkhana, University Guest House, Administrative Offices, Staff quarters and entire University campus.
- (b) 'Student' means any person admitted to a Department of the University as given in (a) above for receiving instructions either full-time or part-time and whose names is on the rolls of the University. The word student with reference to the context if required shall mean students also.
- (c) 'Teacher' means Dean, Director, Professor, Associate Professor, Assistant Professor Warden of hostel, Librarian, Director of Physical Education, Assistant Director of Physical Education, Physical Culture Instructor, and Coaches Etc.
- (d) 'Disciplinary Authority' means an authority competent to impose penalty on a student under these Rules for any act of indiscipline or misconduct.
- (e) 'Inquiry Authority' means a Committee appointed by the Vice-Chancellor or an Inquiry Officer appointed by the Vice-Chancellor to inquire into the charges of act/s of indiscipline or misconduct by a student or a group of students.
- (f) 'Chief Proctor' means a senior teacher appointed by the Vice-Chancellor under the provisions of these Rules.
- (g) 'Assistant Proctor' means a teacher appointed by the Vice-Chancellor under the provisions of these Rules.

4.0 ACTS OF MISCONDUCT AND INDISCIPLINE:

(a) Acts of misconduct and indiscipline Category-I:

- i) Causing disturbance within the University premises, Laboratory or Reading Room, Common Room, Playground or Hostel.
- ii) Any act leading to diverting the attention of the students from the Lectures or of the teacher from Teaching.
- iii) Insubordination and/or disrespect to the teacher within or outside the University premises.
- iv) Habitual inattention to classwork and assignments.
- v) Disturbing a class from outside by loitering aimlessly in the corridors, making noise.
- vi) Picking up quarrel with the teaching or non-teaching staff or with other students.
- vii) Using filthy language and abuses in the University premises or 'Sports-grounds'
- viii) Smoking openly within the University campus.
- ix) Playing any kind of musical instrument inside the class or outside during class hours.
- x) Hunger strikes, *dharnas*, group bargaining and any other form of protest by blocking entrance or exit of any of the academic and/or administrative complexes or disrupting the movements of any member of the University Community.
- xi) Furnishing false certificates or false information in any manner to the University.
- xii) Teasing or disrespectful behavior or any misbehavior with a boy/girl student, staff member/ visitor.
- xiii) Causing or colluding in the unauthorized entry of any person/guest into the Campus or in the unauthorized occupation of any portion of the University premises, including residential quarters/hostels or residence by any person.

- xiv) Unauthorized occupation of the hostel rooms or unauthorized acquisition and use of University furniture in one's hostel room or elsewhere.
- xv) Damaging or defacing, in any form any property of the University or the property of any member of the University community.
- xvi) Not disclosing one's identity when asked to do so by a faculty member or employee or security staff of the University who is authorized to ask for such identity.
- xvii) Improper behavior while on tour or excursion.
- xviii) Coercing the medical staff to render medical assistance to persons not entitled for the same or any other disorderly behavior in the Health Centre of University.
- xix) Blockade or forceful prevention of any normal movement of traffic, violation of security or safety rules notified by the University.
- xx) Littering of any kind of waste including plastic waste in the University buildings, grounds/roads/premises.
- xxi) Disturbing other students/ teachers using a mobile phone inside the class or outside during class hours.
- xxii) Driving and parking the vehicles on University campus in violation of guidelines to that effect.
- xxiii) Distributing any material related to political parties/movements.
- xxiv) Any other act which may be considered by the Vice-Chancellor or any other competent authority to be a minor act of violation of discipline and conduct.

(b) Acts of misconduct and indiscipline Category-II:

- i) Repetition of acts given under Category-I of indiscipline in spite of repeated warnings and penalties imposed.
- ii) Attending the University dressed in a manner contrary to social norms prevailing from time to time or violation of dress code if any.
- iii) Indecent exposure in a proactive manner or behaving in a manner tending to rouse baser passions among the members of the same or opposite sex.
- iv) Disfiguring the walls, floors, furniture etc. of the University.
- v) Forcibly entering/ reaching places which have restricted entry or unauthorizedly handling of equipment or performing acts which would be a threat to one's life.
- vi) Instigating others to commit acts of indiscipline.
- vii) Engaging in any attempt at wrongful confinement of any member of the faculty, staff, student or anyone camping inside the Campus.
- viii) Any Intimidation of or insulting or abusive behavior towards a student, staff or faculty or any other person.
- ix) *Wanton destruction of University properties.*
- x) *Consuming or possessing narcotic drugs or other intoxicants or alcohol anywhere in the University premises.*
- xi) *Indulging in criminal acts of any kind under the law of land including gambling and possession of arms/weapons.*
- xii) *Arousing communal, caste or regional feelings or creating disharmony among students.*
- xiii) *Demonstration of disloyalty to the country, its constitution and its flag.*
- xiv) *Ragging of any kind tending to cause physical and mental torture to other students or forcing others to submit to indignity and nuisance.*

- xv) *All acts of violence and all forms of coercion such as gheraos, sit-ins or any variation of the same which disrupt the normal academic and administrative functioning of the University and or any act which incites or leads to violence.*
- xvi) *Gheraos, laying siege or staging demonstrations around the residence of any member of the University Community or any other form of coercion, intimidation or disturbance of right to privacy of the residents of the campus.*
- xvii) *Sexual harassment of any kind which shall also include: unwelcome sexual proposition/ advancements, sexually graphic comments of a body unwelcome touching, patting pinching or leering of parts of the body or persistent offensive or unwelcome sexual jokes and or comments.*
- xviii) Committing forgery, tampering with the Identity Card or University records, impersonation, misusing University property (movable or immovable), documents and records, tearing of pages of, defacing, burning or in any way destroying the books, journals, magazines and any material of library or unauthorized photocopying or possession of library books, journals, magazines or any other material.
- xix) Any act of moral turpitude.
- xx) Use of abusive, defamatory, derogatory or intimidatory language against any member of the University Community.
- xxi) Any other act or acts which the Vice-Chancellor considers as major acts of misconduct and indiscipline.

5.0 PUNISHMENT

The competent authority may impose any one or suitable combination of the following punishments on any student found guilty of any of the acts of indiscipline or misconduct mentioned under Category-I or Category-II as the case may be, in Rule 4.

Category-II:

- 1) Cancellation of admission or withdrawal of degree or denial of registration for a specified period.
- 2) Rustication up to four semesters and/or declaring any part or the entire Goa University Campus out of bounds.
- 3) Fine up to Rupees five thousand depending upon gravity of the issue.
- 4) Expulsion.

Category-I:

- 1) Admonition/Reprimand.
- 2) Sending the student out of his class and not letting him into his class up to a maximum of two consecutive periods.
- 3) Marking the student absent on repeating the misconduct at Sr No. 2.
- 4) Fine up to Rupees Twenty Thousand depending upon gravity of the issue.
- 5) Recovery of any kind, such as scholarship/fellowship, any dues, cost of damages, etc.
- 6) Withdrawal of any or all facilities available to a student as per, various Goa University Rules (such as Scholarship/Fellowship, Hostel etc.) permanently or for a time period up to two semesters.
- 7) Stoppage of any or all academic processes.
- 8) Rustication up to two semesters and/or Declaring any hostels, premises, building or the entire Goa University Campus out of bounds to any students.

6.0 AUTHORITIES EMPOWERED TO IMPOSE PUNISHMENT AND APPELLEATE AUTHORITIES:

For acts of indiscipline & misconduct under Category-I			For acts of indiscipline/ misconduct under Category-II		
Penalties	Authority empowered to impose them	Appellate authority	Penalties	Authority empowered to impose them	Appellate authority
i) Admonition/ Reprimand.	Teacher, Head of the Department.	No Appeal		Chief Proctor	Vice-Chancellor
ii) Sending the student out of his class/ laboratory and not letting him into his class/ laboratory up to a maximum of two consecutive periods/hours in a day.	Concerned Teacher/s	No Appeal	Rustication up to four semesters and/or declaring any part or the entire Goa University Campus out of bounds.	Chief Proctor	Vice-Chancellor
iii) Marking the student/s absent for repeating the type of misconduct involved in (ii) above, more than once.	Concerned Teacher/s	Head of the Department	Fine up to Rupees Five Thousand depending upon gravity of the issue.	Vice-Chancellor on recommendation of the Chief Proctor and after considering the report of the Inquiry Authority.	Executive Council
iii) Fine up to Rupees Twenty Thousand depending upon gravity of the issue.	Chief Proctor	Vice-Chancellor	Expulsion.	Vice-Chancellor on recommendation of the Chief Proctor and after	Executive Council

				considering the report of the Inquiry Authority.	
iv) Recovery of any kind, such as scholarship/ fellowship, any dues, cost of damages, etc.	Chief Proctor	Vice-Chancellor			
v) Withdrawal of any or all facilities available to a student as per, various Goa University Rules (such as Scholarship/ Fellowship, Hostel etc.) permanently or for a time period up to two semesters.	Chief Proctor	Vice-Chancellor			
Stoppage of any or all academic processes.	Chief Proctor	Vice-Chancellor			
Rustication up to two semesters and/or Declaring any hostels, premises, building or the entire Goa University Campus out of bounds to any students.	Chief Proctor	Vice-Chancellor			

7.0 PROCTORIAL BOARD

- a. There shall be a Proctorial board for the University consisting of a Chief proctor and two Proctors. The Proctors shall be appointed by the Vice-Chancellor as follows.

One Assistant Professor.

One Associate Professor.

The tenure of the Proctors shall be for a period of three years. One of the Proctors shall be a woman. All the matters concerning indiscipline and misconduct by student/s shall be dealt by the Proctorial Board.

b. CHIEF PROCTOR

- (1) The Chief Proctor shall be appointed from amongst the employees of the University preferably of the rank of Professor, by the Executive Council on the recommendation of the Vice-Chancellor. The Chief Proctor shall exercise such powers and performs such duties as may be assigned to him by these Rules or by the Vice-Chancellor. The tenure of the Chief Proctor shall be for a period of three years.
- (2) When the office of Chief Proctor is vacant or when the Chief Proctor is, by reason of illness or absence for any other cause, unable to perform the duties of his office, the duties of the office shall be performed by one of the Assistant Proctors as the Vice-Chancellor may appoint for the purpose.
- (3) The Chief Proctor shall be the competent authority to impose fine/penalty as per the provisions of the clause 6 of these Rules to the student/s on the recommendation of the Proctorial Board.

c. POWERS OF THE PROCTORIAL BOARD AND PROCEDURES

- (1) The Proctorial Board shall be the inquiry authority for all the cases of misconduct/ indiscipline by the student/s and shall make suitable recommendations to the Vice-Chancellor as per the provisions of these Rules. This shall, however, exclude the cases to be handled by the ICC.
- (2) The Proctorial Board (PB) is authorized to take up the cases *suo moto*. However, complainants shall be required to report any of the matters mentioned above within three days of the occurrence of the incident to the Chief Proctor. The student(s) charged shall be notified within four working days of the charge against him/her. It shall be the responsibility of the students(s) thus charged to submit in writing his/her defense within two working days to the PB. If the PB does not receive a defense within two working days, it will take an *ex parte* decision on the charge. The PB shall, however, have powers to relax the time-frames mentioned above based on the merit of the case in question.
- (3) Under normal circumstances the PB shall issue a show cause notice within four working days of receiving a complaint calling for explanation within two working days. If the explanation is not received within two working days or in the further time as may be granted, the PB may, by powers vested in it, record hearings from the other side and/or itself conduct an enquiry or may entrust the process of enquiry including framing of charges and conducting the actual inquiry to any other official of the University. However, if the situation so demands, the PB may convene an emergency meeting and call those concerned to depose before it immediately.
- (4) Evidence to the PB shall normally be presented orally. The student charged may be required to provide written/material evidence, if the PB so demands.
- (5) It shall be the responsibility of the student charged and the complainant to arrange for their respective witnesses to give oral evidence or to submit any written statements/material

evidence in their defense. A Witness giving oral evidence may be cross-examined by the PB. A witness not available for cross-examination may submit evidence in writing. The PB shall not consider evidence from persons who are not prepared to have their names revealed to the PB. The names of persons appearing as evidence/witness shall be kept confidential.

- (6) The PB shall have the power to determine the order of proceedings and to exclude any material which appears irrelevant or repetitive or even seek clarification on oral/written submissions/material evidence.
- (7) The student charged will be invited to be present with a representative [optionally and who shall be another bonafide student only] whenever oral evidence is being heard. Representation through legal counsel/lawyer shall NOT be allowed in any case to any of the parties. Non-attendance of the student charged or his/her representative shall not bar the PB from proceeding ahead. The PB may at its discretion adjourn its proceedings in order to enable the student charged or the representative to be present.
- (8) The PB may adjourn a hearing in order to require a witness to attend for cross-examination. Where a witness who, in the opinion of the PB, is a vital witness, fails to attend, the PB may, at its discretion, postpone its deliberations or even continue with its proceedings. The PB may also adjourn / proceed with a case where it is of the opinion that its proceedings are being impeded by any circumstance beyond its control.
- (9) The PB shall meet to consider an adjourned case, as soon as it is feasible, and not later than 15 days after the adjournment, although the case may not be determined at the resumed meeting. Where it is not reasonably practicable for the same members to attend the PB meeting reconvened to hear an adjourned case, it may co-opt one or two additional members to form the quorum.
- (10) The PB is authorized to invite members where it deems necessary. However, the members so invited shall not have voting rights.

d. **GENERAL**

- (1) No punishment shall ordinarily be imposed on a student unless the PB has followed normal procedures including due opportunity to the student(s) charged with an offence.
- (2) The PB shall draw up:
 - I) the substance of the imputation of major acts of indiscipline into definite and distinct articles of charge.
 - II) a statement of imputation of acts of indiscipline in support of each articles of charge, which shall contain-
 - a) a statement of all relevant facts including any admission or confession made by the student (to be signed by the concerned student/s)
 - b) a list of documents by which and list of witnesses by whom the articles of charge are proposed to be sustained. (to be signed by the concerned witness).
- (3) The Inquiry Authority shall prepare the report of inquiry which shall contain: -
 - a) The articles of charge and the statement of imputation of acts of major indiscipline.
 - b) The defense of the student if any in respect of each article of charge.
 - c) An assessment of the evidence in respect of each article of charge, separately in respect of each student.
 - d) The finding on each article of charge and the reasons thereof.

- (4) In case the Vice-Chancellor or any Competent Authority is of the opinion that on the basis of the available material and evidence on record, a prima facie case exists against a student s/he may order suspension of the student including withdrawal of any or all facilities available to a bonafide student pending inquiry.
- (5) Notwithstanding any punishment mentioned above, the Vice-Chancellor may, keeping in view the gravity/nature of misconduct/act of indiscipline, the manner and the circumstances in which the misconduct/indiscipline has been committed, award a punishment in excess of or less than or other than what has been mentioned thereon for reasons to be recorded.
- (6) The Office of the Chief Proctor shall immediately report its decision to all the officials concerned for necessary action. It shall also report annually to the Vice-Chancellor and any such body that the Vice-Chancellor deems fit, on all cases arbitrated by it during the preceding academic year.

8.0 **PLACING THE REPORTS OF INQUIRY BEFORE THE EXECUTIVE COUNCIL.**

- (i) The Vice-Chancellor on the receipt of the record of inquiry from the Inquiry Authority shall cause the records to be placed before the Executive Council at its next meeting or at a special meeting, if necessary.
- (ii) The Executive Council after due consideration of the report and record of inquiry with the recommendation of the Vice-Chancellor shall pass such order as may be considered just and necessary.
- (iii) The Registrar of the University shall then communicate the orders of the Executive Council to the student if the decision is to rusticate the student.
- (iv) If the student rusticated was allowed to appear for the University Examination with a condition that the results will be with-held until the completion of the inquiry and the decision of the Executive Council thereon, the Registrar shall inform the Controller of Examinations that the result of the student shall not be announced.

9.0 **APPEAL**

- (i) Student/s shall be allowed to appeal against the fine/penalty imposed by the competent authority subject to provisions of the Rule 6.0. However, such an appeal shall be preferred by the concerned student/s within ten working days after the receipt of order of the competent authority.
- (ii) There shall be no appeal against the order of the Executive Council where student/s is/are subjected to expulsion from the University or is subjected to monetary fine by the EC. The decision of the Executive Council shall be final.

10.0 **ACT/ACTS OF INDISCIPLINE MISCONDUCT OUTSIDE THE UNIVERSITY CAMPUS:**

- i) The University shall not ordinarily take cognizance of act/acts of indiscipline committed by a student outside the University campus.
- ii) If a student is arrested or detained by orders of a magistrate on a charge of criminal act involving moral turpitude committed outside the campus, the Vice-Chancellor after verifying the fact of such arrest and detention shall place him/her under suspension until s/he is released on bail or otherwise.
- iii) If a student is sentenced to imprisonment for an offence indulging moral turpitude, the Vice-Chancellor shall place him/her under suspension.
- iv) The Vice-Chancellor shall place the matter before the Executive Council which shall rusticate him/her from the University.
- v) If on appeal, the conviction is set aside, his/her rustication shall post facto cease.

11.0 **INTERPRETATION**

In case of a dispute with regards to the interpretation of any of the Rules mentioned above, the decision of the Vice-Chancellor shall be final.

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LIST OF ACTIVE MEMORANDUM OF UNDERSTANDINGS (MOUs)

S.No.	Country	Organization	Objectives	Commence ment date	Contact @ GU
1	India	MacBrout Engineering Pvt Ltd, Curtorim, Salcete, Goa-403709	Use laboratory space at the Dept. of Microbiology to develop best practices for handling and disposal of various process fluids	3/22/2019	HoD, Microbiology
2	Brazil	Faculdade De Educacao De Universidade De Sao Paulo	Exchange of faculty members, researchers, students and technical-administrative staff	3/1/2019	Director, DICE
3	Portugal	University of Porto	Establish an academic, scientific and cultural cooperation, exchange of students, academic and administrative staff as well as researchers	1/31/2019	Director, DICE
4	India	Drepung Losel Ling Monastery, Mundgod, Karnataka	Exchange of faculty members, students, Admin. Managers/Coordinators and academic material, Joint research activities & cultural programmes	1/14/2019	Coelho, J.P.
5	Argentina	Universidad De Palermo	Joint research projects & cultural activities, Exchange of Faculty, Students and academic material	12/10/2018	Director, DICE
6	India	Institute of Chinese Studies, New Delhi	Exchange of faculty & students for internship, joint research activities, exchange eof academic material, short term academic programmes	11/15/2018	Director, DICE
7	Brazil	Universidade Federal de Juiz de Fora	Academic cooperation for the exchange of students, teaching staff, researchers & members of technical & administrative staff	9/28/2018	Director, DICE
8	USA	University of South Carolina, Aiken	Academic & Cultural cooperation, Exchange of Faculty, students, Admin Managers/Coordinators, Joint research activities, Joint academic programmes. Meetings, seminars	11/16/2017	Director, DICE
9	USA	University of South Carolina, Beaufort	Academic development, research, exchange of students,faculty & staff, development of educational opportunities	11/16/2017	Director, DICE

10	India	Central Marine Fisheries Research Institute	Collaborative R&D academic interaction and collaboration in research projects and academic programmes	8/18/2017	Mukhopadhyay, P.
11	France	Embassy of France in India/ Institut Francais	French Tutor at Goa University	4/26/2017	HoD, French & Francophone Studies
12	France	Sciences Po Lyon	Exchange of Faculty, students, Admin Managers/Coordinators, Joint research activities, Joint academic programmes. Meetings, seminars	4/17/2017	HoD, French & Francophone Studies
13	India	Directorate of Women and Child Development	State Resource Centre for Women of Goa set up at GU	3/17/2017	HoD, Women's Studies
14	Malta	University of Malta	Exchange of Faculty, students, Admin Managers/Coordinators, Joint research activities, Joint academic programmes. Meetings, seminars	1/19/2017	Director, DICE
15	India	IIT, Delhi	Non-commercial research use of IIT-D disguise face database	12/20/2016	HoD, Electronics
16	India	Rotary Club of Panaji	To construct a clock tower near the GU Library	11/18/2016	Registrar
17	Portugal	Instituto Camões, Lisboa	To establish the Chair Joaquim Heliodoro Da Cunha Rivara to promote Portuguese studies	4/7/2016	Director, DICE
18	Italy	University of Padova	Joint academic cooperation through scientific research, educational activitie, exchange of information, faculty and students	2/16/2015	Director, DICE
19	India	Goa State Biodiversity Board	Medicinal plants Biodiversity Exhibition and Awareness for school and college students and general public	1/23/2015	Janarthanam, M.K.
20	India	DBT, Govt. of India	HRD Programme in Marine Biotechnology	8/18/2014	HoD, Biotechnolog y
21	India	Indian Academy of Sciences	Refresher courses in Experimental Physics	11/8/2013	Priolkar, K.R.
22	India	Dept. of Biotech., Ministry of Sci. and Tech.	To support a project by Dr. R. Roy on Lipidomics of some fishes: Control of inflammatory diseases	11/3/2013	Roy, R.
23	India	Jawaharlal Nehru University	Inter-University Consortium on Geo-spatial Information System	9/12/2013	Mahender, K.

24	India	Centre for Internet and Society	To digitize Konkani Vishwakosh, to enhance digital literacy in Konkani language	8/21/2013	Registrar
25	India	Directorate of Census Operations, Goa	Setting up workstation for research on micro data from Census	3/26/2013	Sudarsan, P.K.
26	Portugal	Instituto Camões, Lisboa	To promote Portuguese Language through programmes & Inter-exchange of teachers of specialized teaching in various areas linked with Department of Portuguese	3/6/2013	Director, DICE
27	Germany	Duale Hochschule Baden-Württemberg, Ravensburg	Student and Faculty exchange	6/30/2012	HoD, Management Studies
28	Portugal	University of Porto	Talks; Paleography Courses	6/30/2012	Director, DICE
29	Japan	Nihon University	Academic & Cultural Exchange	6/18/2012	Director, DICE
30	Portugal	University of Aveiro	Sharing programme through exchange of scholars (Faculty members and students) to participate in formulating and carrying out collaborative research projects	2/20/2004	Director, DICE
31	Germany	Technische Hochschule Ingolstadt, Ingolstadt	Student and Faculty exchange	7/1/2000	HoD, Management Studies
32	India	Alliance Francaise de Goa	Collaboration to enhance the objectives of teaching and research in French	5/12/1999	HoD, French & Francophone Studies

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LIST OF RECOGNISED INSTITUTIONS

Sr. No.	Name of the Institution and Address	Head of the Institute
1.	National Institute of Oceanography (NIO), Dona Paula, Goa – 403 004.	Dr. Sunil Kumar Singh Director Contact: 2450450/ 2456700 Email: tmarihal@nio.org
2.	Directorate of Archives & Archaeology, Govt. of Goa, Panaji, Goa-403 001.	Smt. Blossom Medeira, Director Contact: 2226692/ 2435321 Email: dir-arch.goa@nic.in
3.	Xavier Centre of Historical Research (XCHR), B.Borkar Road, Alto Porvorim, Bardez, Goa 403521.	Dr. Fr. Anthony Da Silva S.J., Director, Contact: 2417772/ 2414971 E-mail: info@xchr.in
4.	ICMR-National Institute of Malaria Research, Directorate of Health Services Bldg., Campal, Panaji, Goa – 403001.	Dr. Ashwani Kumar, (Officer-in-Charge) Contact: 0832-2222444, 2222440 E-mail: ashwani07@gmail.com nimrfugoa@gmail.com
5.	National Centre for Polar & Ocean Research (NCPOR) Headland Sada, Vasco da Gama, Goa-403804	Dr. M. Ravichandran Director, Contact: 2520876/ 2525511 E-mail: director@ncpor.res.in info@ncpor.res.in
6.	Thomas Stephens Konknni Kendr, (TSKK) B.B. Borkar Road, Alto Porvorim, Goa – 403 521.	Fr. Jose Silveira S.J., Director, Contact: 2415857/ 2415864 E-mail: tskkgoa@gmail.com
7.	Fishery Survey of India (FSI), Govt. of India, Fishery Survey of India, Opp. Microwave Tower, Bogda Road, Mormugao, Goa-403803	Dr. Pradeep H.D. Contact: 2520248/ 2520957 E-mail: fsimormugaobase@gmail.com
8.	ICAR-Central Coastal Agricultural Research Institute, Ela, Old Goa – 403 402.	Dr. Eaknath B. Chakurkar (Acting), Director, Contact: 2284677/ 78/ 79 E-mail: director.ccari@icar.gov.in

LIST OF AFFILIATED COLLEGES AND RESEARCH CENTRES

Sr.No	Name of College / Institution	Full Address of the College / Institution	Name of Principal/ Director	Contact Number and E-mail ID'S of College & Head of the Institute	Programmes Offered
1.	Dempo Charities Trust Dhempe College of Arts & Science	P.O.Box No.222, Miramar, Panaji, Goa – 403 001	Dr.(Mrs) Vrinda P.S. Borker	College contact No.: 2462376, 2461507, (Fax)2462315 College Email ID: dhempe@rediffmail.com Principal's contact No.: 9822129669 Principal's Email ID: principal@dhempecollege.edu.in borkarvp@gmail.com	Grant-in-aid Programs B.A./B.Sc. B. A. - Konkani/ Marathi/ Hindi/ English/ Economics/ Political Science/ History/ Philosophy/ Psychology B. Sc. in Chemistry/ Botany/ Physics/ Geology/ Zoology/ Computer Science/ Mathematics Self-financed Programs B.Sc. Biotechnology M.Sc. Analytical Chemistry
2.	Carmel College of Arts, Science & Commerce for Women	Nuvem, Salcete, Goa-403 604	Dr.(Sr.) Maria Lizanne A.C.	College contact No.: 2790714, 2790190 College Email ID: carmelcollege64@gmail.com Principal's contact No.: 9881369867/9552330647, 2790959 Principal's Email ID: maria.lizanne@gmail.com	Grant-in-aid Programs B.A./B.Sc./B.Com. B.A.in Psychology, History, Political Science, Economics, Konkani, English B.Sc. in Biotechnology, Electronics, Chemistry, Botany, Zoology, Physics Self-financed Programs M.A.(Counselling Psychology), M. Com. M.Sc. Food Technology
3.	Ponda Education Society's Ravi S. Naik College of Arts & Science	P.O.Box No.3, Farmagudi, Ponda, Goa-403 401	Dr. Vikas J. Pissurlekar	College contact No.: 2335171, 2335296 College Email ID: pessrsncol@gmail.com Principal's contact No.: 2335171 Principal's Email ID: vikjsp@gmail.com	Grant-in-aid Programs B.A./B.Sc. B.A. in Economics(3 & 6 units), Political Science(3 & 6 units), Philosophy (3 units), Psychology(3 units), Hindi (3 units), Marathi(3 & 6 units), Konkani(3 & 6 units), History (3 & 6 units) B. Sc. in Physics(3 & 6 units), Chemistry (3 & 6 units), Mathematics (3 & 6 units) Botany(6 units), Zoology(6 units), Industrial Chemistry(3 units), Microbiology (6 units) Self-financed programs M.Sc. Organic Chemistry M.Sc. Microbiology
4.	St. Xaviers College of Arts, Science & Commerce	P.O. Box No. 32, Mapusa, Bardez, Goa-403 507	Dr. Blanche R.C.S. Fernandes Mascarenhas	College contact No.: 2262356(Fax), 2263031, 2250705 College Email ID: xavierscollege1963@gmail.com Principal's contact No.: 2250705 Principal's Email ID: xavierscollege1963@gmail.com	Grant-in-aid Programs B.A /B.Sc. /B.Com Self-financed Programs B.A. (Mass Communication)/ B.A. (Journalism)/ B.Sc. Biotechnology B.C.A./ B.B.A./ B.B.A.(Travel & Tourism/ M.Com/ M.A.(Psychology)/ M.Sc. Physical Chemistry

5.	Dnyanprassarak Mandal's College and Research Centre	Assagao, Bardez- Goa-403 507	Dr. D.B. Arolkar	<u>College contact No.:</u> 2268488, 2268683 <u>College Email ID:</u> info@dmscollege.ac.in <u>Principal's contact No.:</u> 2268683, 9422393340 <u>Principal's Email ID:</u> dbarolkar@rediffmail.com	<u>Grant-in-aid Programs</u> B.A. (General) in English/ Economics/ History (3 units) B.A. (Honours) in Economics/ History B. Sc (Honours) in Chemistry/ Electronics/ Computer Science/ Geology/ Mathematics B.Com <u>Self-financed Programs</u> B.B.A/ B.C.A/ M. Com/ M.Sc. (Pharmaceutical Chemistry), M.Sc. Organic Chemistry <u>Research Centre</u> Commerce Chemistry
6.	Govt. of Goa, Government College of Arts, Science & Commerce	Near Govt. Hospital, Gokulwadi, Sanquelim, Goa-403505.	Dr. Gervasio S.F.L. Mendes	<u>College contact No.:</u> 2364271, (Fax) 2421734 <u>College Email ID:</u> gcasc@gmail.com <u>Principal's contact No.:</u> 7038152140 <u>Principal's Email ID:</u> gervasiom83@gmail.com	<u>Grant-in-aid Programs</u> B.A./B.Sc./B.Com B.A. – English, Marathi, Konkani, Hindi, History, Geography, Political Science, Economics B.Sc. – Chemistry/ Computer Science, Zoology/ Physics/ Botany/ Geology/ Mathematics M.A. Hindi/Economics, M.Sc. Mathematics <u>Research Programme</u> Economics
7.	Govt. of Goa, Government College of Arts, Science & Commerce	Xeldem, Quepem, Goa – 403705.	Dr. Joydeep Bhattacharjee	<u>College contact No.:</u> 2662342, 2664239 <u>College Email ID:</u> gcascq@rediffmail.com <u>Principal's contact No.:</u> 2662342, 9579671708 <u>Principal's Email ID:</u> joydeep2@gmail.com	<u>Grant-in-aid Programs</u> B.A. in Hindi, Konkani, Marathi, Political Science, Economics, Sociology, Geography, History B.Sc. in Chemistry, Physics, Computer Science, Zoology, Botany, Mathematics B.Com M.Com M.A. Konkani M.Sc. Mathematics <u>Research Programme</u> Konkani Commerce
8.	Govt. of Goa Government College of Arts, Science & Commerce	Khandola, Marcela, Goa-403 107.	Dr. Purnakala V. Samant	<u>College contact No.:</u> 2287718 <u>College Email ID:</u> gcascq@rediffmail.com <u>Principal's contact No.:</u> 2288369 <u>Principal's Email ID:</u> samantpurnakala@gmail.com	<u>Grant-in-aid Programs</u> B.A./B.Sc./B.Com. B.Sc. in Chemistry, Microbiology, Computer Science, Mathematics B.A. in Geography, Hindi, Economics M.Sc. Inorganic Chemistry M.A. Geography M.Com
9.	St. Joseph Vaz College	Church Street, Cortalim, Goa 403 710	Dr. Maria A.A.R. Fonseca	<u>College contact No.:</u> 2550812, 2550814 <u>College Email ID:</u> goasjvc@gmail.com <u>Principal's contact No.:</u> 2550812, 2550814 <u>Principal's Email ID:</u> principal@sjvc.ac.in	<u>Grant-in-aid Programs</u> B.Sc. in Chemistry, Botany, Physics and Mathematics
10.	Goa Salesian Society's Don Bosco College	M.G. Road, Near Municipal Market,	Dr. Cedric Silveira	<u>College contact No.:</u> 6644321	<u>Self-financed Programs</u> B.C.A/ B.B.A./B.B.A. (T&T)/

		Altinho, Panaji, Goa-403 001		College Email ID: donboscogoa@rediffmail.com Principal's contact No.: 9823756005 Principal's Email ID: cedricsilveira@yahoo.com	B.S.W/ Bachelor of Physical Education(B.P. Ed) B.A. Mass Communication/ Master of Social Work(M.S.W.)
11.	Zantye Brothers Educational Foundation's Narayan Zantye College of Commerce	Industrial Estate, Vathadev, Sarvan, Bicholim, Goa-403 529.	Shri Rajesh Amonkar (Officiating Principal)	College contact No.: 2361377, 2363769 College Email ID: zantyeedu@rediffmail.com Principal's contact No.: 9823618272 Principal's Email ID: asmnad3@rediffmail.com, principalnzcc@gmail.com	Grant-in-aid Programs B.Com. Self-financed Program M.Com Research Programme Commerce
12.	Murgaon Education Society's College of Arts & Commerce	Zuarinagar, Goa-403726	Dr. Meenakshi Bawa (Officiating Principal)	College contact No.: 2555772, (fax) 2556010 College Email ID: mescollege1@gmail.com, mescollege1@rediffmail.com Principal's contact No.: 2555772 Principal's Email ID: bawameenakshi@yahoo.com	Grant-in-aid Programs B.A/B.Com Self-financed Program B.C.A./ B.B.A./ B.B.A.(Shipping & Logistics)/ M.Com/ M.A. English Research Programme Economics Sociology
13.	Sant Sohirobanath Ambiyev Govt. College of Arts & Commerce	Virnoda, Pernem, Goa-403512	Dr. Filipe Rodrigues e Melo	College contact No.: 2201210, (Fax) 2201762 College Email ID: gcacpg@yahoo.co.in Principal's contact No.: 9422061226 Principal's Email ID: mariacarla98@gmail.com	Grant-in-aid Programs B.A. (General) in English, History, Economics, Geography, Konkani and B.A.(Honours) in Hindi & Marathi B.Com M.Com M.A. Marathi Research Programme Commerce
14.	Diocesan Society of Education's Rosary College of Commerce & Arts	Navelim, Salcete, Goa-403707	Shri Helic Barreto Officiating Principal	College contact No.: 2701564 College Email ID: rosarycollege.1990@gmail.com Principal's contact No.: 2736864, 9822124121 Principal's Email ID: principal@rosarycollege.org	Grant-in-aid Programs B.Com./B.A. Self-financed Programs B.C.A./ B.B.A./ B.B.A.(Travel & Tourism/ M. Com. Research Programme Commerce
15.	Fr. Agnel College of Arts & Commerce	Pilar,Goa-403203	Dr. Savio P. Falliero	College contact No.: 2218673, 2219833 College Email ID: fragnelcol@rediffmail.com contactus@fragnelcollege.edu.in Principal's contact No.: 2219833, 9422060384 Principal's Email ID: saviiofalleiro@gmail.com principal@fragnelcollege.edu.in	Grant-in-aid Programs B.Com./B.A. Self-financed Program B.C.A. Research Programme Commerce Economics
16.	Cuncolim Educational Society's College of Arts & Commerce	'Shri Pio F. Lawrence Complex' Cuncolim, Salcete, Goa-403703	Dr. Sanjay S. Sawant Dessai	College contact No.: 2865210(Phone & Fax) College Email ID: cescac21@yahoo.co.in Principal's contact No.: 2865774, 9765569757 Principal's Email ID:	Grant-in-aid Programs B.A./B.Com.

				sanjaydessai@gmail.com principal@cescollege.ac.in	
17.	Dnyan Prabodhini Mandal's Shree Mallikarjun College of Arts & Commerce	Delem, Canacona, Goa-403702	Dr. Manoj S. Kamat	College contact No.: 2633433, 2633422 College Email ID: shreemallikarjuncollege@gmail.com Principal's contact No.: 9765459914 Principal's Email ID: mskamat@gmail.com	Grant-in-aid Programs B.A./B.Com./B.Sc.
18.	Dempo Charities Trust's S.S. Dempo College of Commerce & Economics	Cujira Integrated Educational Complex, Opp. Goa Medical College, Cujira, St. Cruz, Ilhas, Goa – 403 005	Prof. Radhika S. Nayak	College contact No.: 2976646, (Fax) 2976648 College Email ID: office@dempocollege.edu.in Principal's contact No.: 9422439876, 2976647 Principal's Email ID: principal@dempocollege.edu.in	Grant-in-aid Program B.Com Self-financed Programs BBA/ M.Com / MTTM/ PGDBA – Event Management/ Integrated M.Com (IMCOM)
19.	Vidya Vikas Mandal's Shree Damodar College of Commerce & Economics	Shree Damodar Educational Campus, G.R. Kare Road, Tansor, Comba, Margao, Goa-403 601	Dr. Prita D. Mallya	College contact No.: 2714224, (Fax) 2732084 College Email ID: principal.sdcc@vvm.edu.in Principal's contact No.: 0832-2730924, 9822103611 Principal's Email ID: prita.mallya@vvm.edu.in	Grant-in-aid Program B.Com. Self-financed Programs B.C.A./ B.B.A(FS)/ M.Com/ B.Voc (ST)/ Post Graduate Diploma in Finance Taxation Research Centre Commerce Management Economics
20.	Goa Vidyaprasarak Mandal's Gopal Govind Poy Raiturcar College of Commerce and Economics	Post Box No. 102, Farmagudi, Ponda, Goa-403401	Shri. Pravin M. Bhende	College contact No.: 0832-2335868, 2335875, 2335819 College Email ID: gvmccee@yahoo.in Principal contact No.: 2335875, 9822127625 Principal's Email ID: pmbhende@gmail.com	Grant-in-aid Program B.Com Self-financed Programs B.C.A./ M.Com
21.	Saraswat Vidyalaya's Sridora Caculo College of Commerce & Management Studies	Telang Nagar Khorlim, Mapusa, Goa-403 507	Dr. Santosh B. Patkar	College contact No.: 2254478, (Fax) 2250208 College Email ID: caculocollege@gmail.com Principal contact No.: 2250042, 9421157379 Principal's Email ID: patkar_santosh@rediffmail.com	Grant-in-aid Program B.Com Self-financed Programs BBA/BCA
22.	Vrundavan Institute of Nursing Education	Near Binani Glass Fibre Pvt. Ltd., Mushir Wado, Colvale, Bardez-Goa-403 513.	Prof. S. Rajeswari	College contact No.: 7448202838, 9225988570 College Email ID: vinegoa@yahoo.co.in Principal's contact No.: 7448202838, 9225988570 Principal's Email ID: rajiawanthika@gmail.com	Self-financed Program B.Sc. Nursing
23.	Institute of Nursing Education	Opposite Station Workshop, EME Bambolim Camp, Bambolim, Goa-403202.	Mrs. Carol Noronha	College contact No.: 2458191, 2459727 College Email ID: principal-ine.goa@nic.in Principal's contact No.: 2459727, 7798142248	Grant-in-aid Programs 1. B.Sc. Nursing (4 years) 2. M.Sc. Nursing (2 years) 3. Post Basic Diploma in Cardiothoracic Nursing. 4. Post Basic Diploma in

				Principal's Email ID: principal-ine.goa@nic.in	Neonatal Nursing.
24.	Devi Sharvani Education Society's V.M. Salgaocar College of Law	Caranzalem, Panaji, Goa-403 001.	Dr. K. Srinivasa Rao	College contact No.: 2462225 College Email ID: vmscl@rediffmail.com Principal's contact No.: 2461809, 7350198881 Principal's Email ID: principal@vmslaw.edu.in vasu123goa@gmail.com	Grant-in-aid Programs B.A.LL.B. Self Financed Programs LL.B./LL.M. Research Programme Law
25.	Vidya Vikas Mandal's Govind Ramnath Kare College of Law	Shree Damodar Educational Complex, P.O. BoX No. 777, G.R. Kare Road, Tansor, Comba, Margao, Goa-403601	Dr. Saba V.M. Da Silva	College contact No.: 2715510, 2732661 College Email ID: officergklaw@vvm.edu.in Principal's contact No.: 9422450890, 8275540890 Principal's Email ID: principal.grkcl@vvm.edu.in	Grant in aid programs B.A.LL.B. Self-financed programs LL.B./ LL.M. Research Programme Law
26.	National Institute of Hydrography	C/o Headquarters, Goa Naval Area, Vasco-da-Gama, Goa-403802	Capt. Rajesh Bargoti (Officer-In-Charge)	College contact No.: 2582800, 2582808 Fax - 2513419 College Email ID: info-nih.goa@nic.in	Grant-in-aid Programs 1. Post Graduate Certificate in Hydrography. 2. Post Graduate Diploma in Hydrography. 3. M.Sc. Hydrography
27.	Govt. of Goa Goa College of Music	Dr.T.B. Cunha Educational Complex, Altinho, Panaji, Goa-403 001	Dr. Shashank S. Maktedar (Officiating Principal)	College contact No.: 2232507, (Fax) 2432528 College Email ID: goacollegeofmusic@gmail.com Principal's contact No.: 2232507 Principal's Email ID: smaktedar@gmail.com	Grant-in-aid Programs BPA MPA (Vocal & Instrumental) MPA (Tabla) Research Programme Music
28.	Govt. of Goa, Goa College of Art	Altinho, Panaji, Goa-403 001	Shri. Mahesh V. Vengurlekar	College contact No.: 2226104, (Fax) 2242607 College Email ID: goacollegeofart@gmail.com Principal's contact No.: 2226104, Principal's Email ID: mv.vengurlekar@gmail.com	Grant-in-aid Programs B.F.A.-Applied Art B.F.A.-Painting
29.	Govt. of Goa, Institute of Psychiatry & Human Behaviour	Opp. Shrine of Holy Cross, Bambolim, Goa-403 202.	Dr. S.M. Bandekar (Dean-in-Charge)	College contact No.: 2458687 College Email ID: dir-iphb.goa@nic.in Principal's contact No.: 2458687 Principal's Email ID: dir-iphb.goa@nic.in	Grant-in-aid Programs MD in Psychological Medicine Diploma in Psychological Medicine Diploma in Psychiatric Nursing M.Phil in Psychiatric Social Work M. Phil in Clinical Psychology
30.	Govt. of Goa, Goa College of Architecture	Dr.T.B. Cunha Educational Complex, Altinho, Panaji, Goa-403001	Prof.(Dr.) Ashish K. Rege	College contact No.: 2436435 College Email ID: gca.archoffice@gmail.com Principal's contact No.: 2227144, 9822486810 Principal's Email ID: prin.architecture@unigoa.ac.in	Grant-in-aid Program Bachelor of Architecture (B.Arch) Master of Architecture (M.Arch)
31.	Govt. of Goa, Goa College of Home	Dayanand Bhandodkar Road,	Dr. Mahesh Pai	College contact No.: 2227603	Grant-in-aid Programs B.Sc. Home Science (Honours)

	Science	Next to Campal Parade Ground, Campal, Panaji, Goa-403001		College Email ID: principalgchs@rediffmail.com Principal's contact No.: 2227603, 9822121176 Principal's Email ID: drmaheshpai@gmail.com	
32.	Ponda Education Society's Rajaram & Tarabai Bandekar College of Pharmacy	Farmagudi, Ponda, Goa-403401	Dr. S.N. Mamle Desai	College contact No.: 2335162 College Email ID: principalrtbcop@gmail.com Principal contact No: 2335162, Principal's Email ID: smamledesai@rediffmail.com	Self-financed Programs B. Pharm M. Pharm Pharmaceutical Chemistry Pharmaceutics
33.	Govt. of Goa, Goa College of Pharmacy	18 th June Road, Panaji, Goa-403 001	Dr. Gopal Krishna Rao	College contact No.: 2226882 College Email ID: principal.gcp.goa@gov.in, gcpprincipal@yahoo.com Principal contact No: 2226883, 9158055530 Principal's Email ID: gkfadnis@gmail.com	Grant-in-aid Programs Diploma in Pharmacy B.Pharm M.Pharm Pharmaceutical Quality Assurance Pharmacology Pharmacognosy Research Programme Pharmacy
34.	Shree Rayeshwar Institute of Engineering & Information Technology	'Shiv Shail' Karai, Shiroda, Goa-403 103.	Dr. Shailendra Aswale	College Contact No.: 2307032, 2307001, Principal Contact No.: 2307431, Principal Email ID: principal.ritgoa@gmail.com principal@ritgoa.ac.in	Self-financed Programs 1. B.E. Electronics & Telecommunications Engineering (ETC) 2. B.E. Computer Engineering 3. B.E. Information Technology 4. B.E. Mechanical Engineering
35.	Padre Conceicao College of Engineering	Agnel Technical Education Complex, Agnel Ashram, Agnel Ganv, Verna, Goa-403 722.	Dr. Mahesh Parappagoudar	College contact No.: 0832-2791266, 2791267 (Fax) 2791268 College Email ID: agnelpcce@gmail.com Principal contact No: 2791267, 9823705395 Principal's Email ID: principal@pccgoa.org	Self-financed Programs 1. B.E. Electronics & Telecommunications Engineering (ETC) 2. B.E. Computer Engineering 3. B.E. Information Technology 4. B.E. Mechanical Engineering 5. M.E. Information Technology
36.	Govt. of Goa, Goa College of Engineering	"Bhausahab Bhandokar Technical Education Complex", Farmagudi, Ponda, Goa-403401	Dr. Krupashankara M.S.	College contact No.: 2336301, 2336302, 2336303 College Email ID: acad@gec.ac.in Principal contact No: 2336301, 2336303, 2336302 Principal's Email ID: ppl@gec.ac.in	Under Graduate Programs 1. B.E. Civil Engineering 2. B.E. Electrical & Electronics Engineering 3. B.E. Mechanical Engineering 4. B.E. Electronics & Telecommunication Engineering 5. B.E. Computer Engineering 6. B.E. Information Technology Engineering 7. B.E. Mining Engineering Post Graduate Programs 1. M.E. Foundation Engineering 2. M.E. Industrial Engineering 3. M.E. (ETC) Micro Electronics Engineering 4. M.E.(ETC) Electronics Communication & Instrumentation 5. M.E. Power & Energy Engineering

					6. M.E. Computer Science & Engineering 7. M.E. Industrial Automation & Radio Frequency Engineering 8. M.E. Structural Engineering 9. M.E. Information Technology & Engineering Research Programme 1. Electronics & Telecommunications Engineering 2. Electrical & Electronics Engineering 3. Mechanical Engineering 4. Computer Science and Engineering 5. Civil Engineering
37.	Don Bosco College of Engineering	Fatorda, Margao Goa-403602	Dr. Neena P. Panandikar	College contact No.: 2741045, 2743944, (Fax)2742648 College Email ID: dbcefatorda@dbcegoa.ac.in Principal contact No: 2741045, 2743944 Principal's Email ID: principal@dbcegoa.ac.in	Self-financed Programs 1. B.E. Mechanical Engineering 2. B.E. Civil Engineering 3. B.E. Electronic & Telecommunication 4. B.E. Computer Engineering
38.	Agnel Institute of Technology & Design	Agnel Technical Education Complex, Assagao, Bardez Goa-403507	Dr. V. Mariappan	College contact No.: 2268642, (Fax) 2268642 College Email ID: aيتدgoa@gmail.com Principal contact No: 9975797916 Principal's Email ID: vm@aitdgoa.edu.com	Self-financed Programs 1. B.E. Mechanical Engineering 2. B.E. Computer Engineering 3. B.E. Electronics & Communication Engineering(ECE)
39.	Govt. of Goa Goa Medical College & Hospital	Bambolim, Goa-403202.	Prof. (Dr.) S.M. Bandekar Dean	College contact No.: 2458727 College Email ID: dean-gmc.goa@nic.in Principal contact No: 2458728	Grant-in-aid Programs 1. M.B.B.S. 2. Doctor of Medicine(M.D.) a. Physiology b. Biochemistry c. Pharmacology d. Pathology e. Microbiology f. Forensic Medicine g. Preventive & Social Medicine h. General Medicine i. Obstetrics & Gynaecology j. Paediatrics k. Psychiatry l. Anaesthesiology m. Radiodiagnosis n. Skin & VD o. Pulmonary Medicine 3. Master of Surgery (M.S.) a. Anatomy b. General Surgery c. Oto Rhino Laryngology d. Ophthalmology e. Orthopaedics 4. Master of Chirurgie M.Ch. Neurosurgery 5. Diploma a. Anaesthesiology(D.A)

					b. Forensic Medicine (D.F.M) c. Public Health (D.P.M.) d. Child Health (D.C.H) e. Obstetrics & Gynaecology (D.G.O) f. Medical Radiodiagnosis (D.M.R.D) g. Psychological Medicine (D.P.M.) h. Skin & VD (DVD) 6. <u>Allied Health Science Programs</u> a. Bachelor in Physiotherapy (B.P.T.) b. Bachelor of Optometry (B.Opt) c. Bachelor of Occupational Therapy (B.O.T) d. B.Sc. in Medical Imaging Technology (B.Sc. M.I.T.) e. B.Sc. in Anaesthesia Technology (B.Sc. A.T.)
40.	Govt. of Goa, Goa Dental College & Hospital	Bambolim, Goa-403202	Dr. Ida de Noronha de Ataide	College Contact No.: 2459812, 13, 14, 15, (Fax)2459816 College Email ID: dean-gdch.goa@nic.in Principal Contact No.: 2459815, 9822489755 Principal Email ID: idanataide@yahoo.com	Grant-in-aid Programs Bachelor of Dental Surgery (B.D.S.) Masters of Dental Surgery (M.D.S)
41.	Shivgram Education Society's Shri Kamaxidevi Homoeopathic Medical College & Hospital	'Shiv Shail', Karai, Shiroda, Goa 403 103.	Prof. (Dr.) Roshani R. Shirwaikar (Officiating Principal)	College contact No.: 2306842, 2307441, College Email ID: skhnmchgoa98@gmail.com Principal's contact No.: 2307442 Principal's Email ID: drshubhashirwaikar@gmail.com	Self-financed Program Bachelor in Homoeopathic Medicine & Surgery (B.H.M.S)
42.	Bharateeya Sanskriti Prabodhini's Gomantak Ayurveda Mahavidyalaya & Research Centre	Vazem, Shiroda, Goa-403 103.	Dr. Anura Bale	College contact No.: 2306309, (Fax) 2307394 College Email ID: ayurgoa@rediffmail.com Principal's contact No.: 9822589751 Principal's Email ID: baleanura@rediffmail.com	Self-financed Program Bachelor of Ayurvedic Medicine & Surgery (B.A.M.S) Post Graduate Program 1. Kayachikitsa 2. Rasashatra & Bhaishajya Kalpana (Self-Financed)
43.	Ponda Education Society's College of Education	Ponda Panjim Highway, Farmagudi, Ponda Goa-403401	Dr. Prakash R. Ahire	College contact No.: 2335016, (Fax) 2335020 College Email ID: princi_pescoe@yahoo.in Principal's contact No: 2335516, 9850501251 Principal's Email ID: prakash.ahire11@gmail.com	Self-financed Program Bachelor of Education (B.Ed)
44.	Nirmala Institute of Education	Altinho, Panaji, Goa-403 001.	Dr. Delia Antao	College contact No.: 2225633, 2420186 College Email ID: niegoa@gmail.com Principal contact No: 2225633, 9011545383 Principal's Email ID:	Grant-in-aid Programs B.Ed. Self-financed Programs Post Graduate Diploma in Guidance & Counselling. M.A. Wellness Counselling.

				deliaantao@gmail.com	
45.	Goa Vidyaprasarak Mandal's Dr. Dada Vaidya College of Education	Post Box No.139, Farmagudi,Ponda, Goa-403 401.	Dr. Allan Abreo	College contact No.: 2335880 College Email ID: gvm.educol@gmail.com Principal contact No: 2335089, 9422058395 Principal's Email ID: allancora@gmail.com	Grant-in-aid Program Bachelor of Education (B.Ed) Diploma in Pre-Primary Teachers Training (Community College) Master of Education (M.Ed) Research Centre Education
46.	Govt. of Goa, Government College of Commerce	Borda, Margao, Goa-403 602.	Dr. Gajanan V. Madiwal	College contact No.: 0832-2706508 College Email ID: gcc.margao@gmail.com Principal contact No: 0832-2706508, 7083097639 Principal's Email ID: gcce-borda@gov.in	Grant-in-aid Program B.Com.
47.	Goa College of Hospitality and Culinary Education	Cidade-de-Goa, Vainguinim Beach Goa-403 004.	Mrs. Zarine Lobo (Officiating Principal)	College contact No.: 2454560, 2454561 College Email ID: admin@gchce.com Principal contact No: 2454560, 2454561 Principal's Email ID: principal@gchce.com	Self-financed Program BBA - Hospitality & Culinary Management
48.	Vidya Prabodhini College of Commerce, Education, Computer and Management	Vidya Nagar, Alto Parvari,Goa-403521	Dr. M.R. Patil	College contact No.: 0832-2410500, 2413600 College Email ID: vidyaprabodhinigoa@gmail.com Principal contact No: 2413600, Principal's Email ID: drmrpatil1960@gmail.com	Grant-in-aid Program B.Com./ B.A.B.Ed.
49.	Vikas Parishad Mandre Mandre College of Commerce, Economics & Management	Dev Mandrekar Nagar, Mandre, Pernem, Goa-403527.	Shri Narayan J. Naik (Administrative Incharge)	College contact No.: 2247269, 9423837316, 9422395963 College Email ID: mandrecollege@yahoo.co.in	Grant-in-aid Program B.Com
50.	Swami Vivekanand Vidyaprasarak Mandal's College of Commerce	Shirshirem, Borim Ponda, Goa-403 401	Dr. (C.A.) Subrahmanya Bhat K.M.	College contact No.: 2333029 College Email ID: svvmcollege@yahoo.com Principal contact No: 8806531262 Principal's Email ID: skmbhat@yahoo.co.in	Grant-in-aid Program B.Com
51.	Sateri Pisani Education Society's Gopal Gaonkar Memorial Goa Multi-Faculty College	NH-4A, Ponda-Belgaum Road, Dayanand Nagar, Dharbandora, Goa – 403 406.	Dr. Shaikh Mohammad Parvez Al-Usmani	College contact No.: 7768006580 College Email ID: gmfcgoa2013@gmail.com Principal contact No: 9422643821/7507652695 Principal's Email ID: parvez_goa@yahoo.com/ parvezalusmani@gmail.com	Grant-in-aid Programs B.Com. B.B.A. B.C.A.
52.	V.M. Salgaocar Institute of International Hospitality Education	Manora, Raia, Salcete, Goa-403720	Prof. Irfan S. Mirza (Director)	College contact No.: 6623000, (Fax) 6623111 College Email ID: info@vmsiie.edu.in	Self-financed Program B.Sc. International Hospitality Management

				Director's contact No: 6623210, 7720023201 Director's Email ID: irfan.mirza@vmsiie.edu.in	
53.	Ganapat Parsekar College of Education	Bhom Plateau, Harmal, Goa-403524	Shri Udes R. Natekar (Officiating Principal)	College contact No.: 2242939 College Email ID: hpsm1967@gmail.com Director's contact No: 9823232629 Principal's Email ID: abhishnatekar@yahoo.com	Grant-in-Aid Program B.A.B.Ed. B.Sc.B.Ed.
54.	Don Bosco College of Agriculture	Don Bosco Agro-Ed Complex, Sulcorna, Pirla, via Quepem, Goa – 403 705	Dr. Suresh Kunkalikar (Officiating Principal)	College contact No.: 2602632 College Email ID: dbcaoffice2015@gmail.com Principal's contact No: 9423889770 Principal's Email ID: dbcprincipal@gmail.com	Grant-in-aid Program B.Sc. Agriculture (4 years)
55.	Ramanata Crisna Pai Raikar School of Agriculture	Madhala Wada, Savoi Verem, Ponda-403 401.	Shri Shrirang V. Jambhale	College contact No.: 2340077 College Email ID: rcpragrischool@gmail.com Principal's contact No: 7588920490, 9673751125 Principal's Email ID: rsaawni@gmail.com, rangjambhala@gmail.com	Self-Financed program Diploma in Agriculture Advance Diploma in Agriculture
56.	Swami Brahmanand Mahavidyalaya	Tapobhoomi, Kundaim, Ponda, Goa – 403115	V.M. Harishchandra Gawas	College contact No.: 9130066362, 7507771750 College Email ID: sbrahmavid.goa@gmail.com Principal's contact No: 9130066362, 7507771561, 7507771750 Principal's Email ID: gawas87@gmail.com	Grant-in-aid Program B.A. Honours in Sanskrit
57.	Kala Academy Goa's College of Theatre Arts	Dayanand Bandodkar Marg, Campal, Panaji, Goa – 403001	Shri Ramrao Wagh	College contact No.: 08322420451/52/53/54 College Email ID: kalaacademy@yahoo.co.in Principal's contact No: 08322420451/52/53/54	Grant-in-aid Program Bachelor of Performing Arts (Theatre)

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