

गोंय विद्यापीठ

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State Public University since 1985  
Recognized by UGC u/s 12-B  
(Accredited by NAAC with A Grade)

Goa University

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Goa, India

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Website: [www.unigoa.ac.in](http://www.unigoa.ac.in)

GU/Acad-PG/Ph.D./Sept./2021/ 298

Date: 27/09/2021

## NOTIFICATION

### Admissions to the Ph.D. Programme-September 2021

Application for seeking admission to the Ph.D. Programme offered at the University Schools Departments and Research Centres affiliated to Goa University shall be accepted online from 27/9/2021 to 08/10/2021. The list of vacancies in the respective subjects, along with the names of the Guides and area of research and reservation are given at **Annexure-I and Annexure-II** respectively.

Admission to the Ph.D. Programme is governed by Ordinance OA-19A of this University which is available on the University website [www.unigoa.ac.in](http://www.unigoa.ac.in). Interested candidates are required to refer to Ordinance OA-19A and this Notification for details including the eligibility criteria before applying.

#### IMPORTANT DATES:

Commencement of online applications	27/09/2021
Last Date for applying online	08/10//2021
Conduct of Interview	18/10/2021 to 19/10/2021
Declaration of list of Selected Candidates	29/10/2021
Last date of verification of Documents	10/11/2021
Last date of payment of fees	15/11/2021

#### 1. ELIGIBILITY:

(i) A candidate who have obtained a Master's Degree or a Professional Degree declared equivalent to the Master's Degree by the corresponding statutory regulatory body, with at least 55% marks in aggregate, or its equivalent grade 'B' in the UGC 7-point scale (or an equivalent grade in a point scale wherever grading system is followed), or an equivalent Degree from a foreign educational Institution accredited by an Assessment and Accreditation Agency which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country for the purpose of assessing, accrediting or assuring quality and standards of educational institutions, shall be eligible to register for the Ph.D. Degree.

(ii) A relaxation of 5% of marks, from 55% to 50%, or an equivalent relaxation of grade, shall be given for those belonging to SC/ST/OBC(non-creamy layer)/Persons with Disabilities and other categories of candidates as per the decision of the Commission from time to time, or for those who had obtained their Master's Degree prior to 19th September, 1991. The relaxation of 5% to the categories mentioned above are permissible based only on the qualifying marks without including the grace marks.

(iii) The subject of research shall be that which relates to the main branch/ branches of knowledge chosen by the candidate for the post-graduate Degree. However, a candidate wishing to conduct research in a subject of an interdisciplinary character shall also be eligible for registration. The applications of such candidates shall be considered by following the procedure set out under OA-19A.2(ii). The candidates are permitted to apply for the Ph.D. Programmes in a maximum of three subject.

(vi) The following conversion formula shall be followed as per Ordinance OA-16 for candidates of Goa University. Other University candidates shall also follow this formula in absence of conversion factor provided by their parent University:

- a. Conversion from Grade to Percentage. The following formula shall be used to convert from Grade (CGPA) to equivalent Percentage.

$$\text{Percentage} = (\text{CGPA} - 0.75) \times 10$$

- b. Conversion from Percentage to Grade. The following formula shall be used to convert from Percentage to equivalent Grade (CGPA).

$$\text{CGPA} = (\text{Percentage} / 10) + 0.75$$

Admission to the Ph.D. Programmes for the September 2021 session is open to the following candidates:

- (a) Candidates who have qualified in the Examinations of apex bodies such as CSIR-UGC/UGC NET JRF/ lectureship, DBTJRF, SET/SLET examination of different Indian States/ GATE with a valid certificate, those having DST Inspire fellowship, or those awarded M.Phil. Degree as per the UGC guidelines.

**Students who have completed M. Phil by distance mode are not eligible.**

- (b) Candidates of Goa University whose M.Phil Dissertation has been evaluated and Viva is pending, shall be eligible to apply for the Ph.D. Programme.

- (c) All the candidates who are qualified in the Goa University Ph.D. Entrance Test (GU-PET) conducted by this University held in the month of December 2020 and August 2021.

(d) Senior Citizens who are otherwise qualified but exempted from appearing at the Ph.D. Entrance Test. However, they will not be issued an Equivalence Certificate.

## 2. APPLICATION PROCESS:

Candidates are required to apply online on the GUMS Portal by visiting the below link.

**ADMISSION PORTAL LINK :** <https://tinyurl.com/8z6wmu6y>

DOCUMENTS TO BE UPLOADED AT THE TIME OF SUBMITTING the ONLINE APPLICATION.

- a) Statement of Marks of Post-Graduation
- b) Certificate of Passing Post Graduation Degree.
- c) Certificate of Passing M.Phil/NET/SET/JRF/GATE/GPAT/GU-PET Examinations.
- d) Valid Category Certificate (if applicable); OBC (non-creamy layer) Certificate is valid for 3 years.
- e) EWS Category candidates are 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.

### APPLICATION FEES (Non-Refundable)

General Category/OBC	SC/ST	Persons with Disabilities
Rs. 600/ per Programme	Rs. 300/ per Programme	Nil

**Applicants are eligible to apply for a maximum three Programmes.**

Candidates are required to check/confirm the correctness of the information entered before paying and submitting their application. Application fees once paid shall not be refunded under any circumstances.

## 3. SELECTION PROCESS:

While grading the candidates for admission to Ph.D. Programme, a weightage of 70% shall be given for the Entrance Test and 30% to the performance in the Interview/Viva-Voce. A Candidate shall be required to score a minimum of 50% marks at the Interview. (5% relaxation for SC/ST/OBC (non-creamy layer)/Differently-abled Candidates, or other categories of Candidates as specified by the State Government).

- (i) The Candidates who have cleared any of the National or State Level Tests like NET, SET, GPAT, GATE etc. shall be admitted by normalizing their marks/score/ percentage in such tests with respect to 70% component of GU-PET.

For normalizing the marks obtained in National Level and State Level Tests, the following formula shall be used.

$$\text{Normalized \% Marks} = 70 - [0.45 \times (100 - \text{Obtained \% Marks})]$$

Provided that in case of the Candidates who do not possess certificates of the National or State level tests / fellowships mentioned above showing the score earned by the Candidates, the percentage score obtained by them at Master's level shall be considered for normalizing.

In case of Candidates with GPAT score, obtained marks shall be calculated by dividing the GPAT score by 5 and then normalised using the above formula.

In case of Candidates with M. Phil. normalized marks shall be equal to percentage marks scored by the candidate times 0.7.

- (ii) The actual marks scored by candidates at the GU-PET shall be treated as normalised marks.
- (iii) There shall be two rounds of interviews; the first one for candidates who have qualified the JRF/ M.Phil/NET/SET/GATE/GPAT Examinations and the second one for those who have answered the GU-PET and Senior Citizens.
- (iv) Senior Citizens shall be deemed to have scored 50% marks in the GU-PET.
- (v) Only the predetermined number of vacancies announced in this Notification, candidates shall be admitted to the Ph.D. Programme in the respective Schools/Departments/Research Centres.
- (vi) In case of a tie in scores, preference shall be given to those who have been awarded JRF in the CSIR-UGC/UGC NET examination, followed by DST Inspire, M.Phil degree holders, NET, SET, GPAT over GU-PET qualified candidates in that order. If the tie still persists then interview performance shall be used as a tiebreaker.

#### **ASSISTANCE**

For assistance, candidates may send your queries to Assistant Registrar (Academic-PG) [admissionphd@unigoa.ac.in](mailto:admissionphd@unigoa.ac.in).

Sd/-  
(Prof. Radhika S. Nayak)  
Officiating Registrar

To

1. Deans of School/Faculty/Head of University Departments
2. Faculty of Goa University
2. Principal/Director of Recognised Research Centres/Institutions

Copy to

1. Joint Registrar (Academic)
2. PS to VC
3. PA to R

## Vacancies to be announced for Ph.D. Programme, September, 2021

Sr. No	Name of the Guide	Designation	Subject	Area of Research specialization	No. of vacancies announced
<b>I FACULTY OF LANGUAGE &amp; LITERATURE</b>					
<b>A DEPARTMENT OF FRENCH &amp; FRANCOPHONE STUDIES</b>					
1	Prof. Anuradha Wagle	Professor	French	Translation Studies, Linguistics, Cultural Studies, Didactics	2
<b>B DEPARTMENT OF HINDI</b>					
1	Prof. Vrushali Mandrekar	Professor	Hindi	Short Story, Comparative Literature and Translation	1
<b>DEPARTMENT OF KONKANI</b>					
1	Dr. Prakash Pariekar	Associate Professor	Konkani	Sociology Literature, Konkani Folklore, History of Konkani Language, Literature, Konkani Language Movement	1
<b>II FACULTY OF SOCIAL SCIENCES</b>					
<b>DEPARTMENT OF HISTORY</b>					
1	Prof. Nagendra Rao	Professor	History	State Formation, Transcultural Exchange, Urbanization, Historiography, Indo-Portuguese History, Maritime India, History of Goa	2
<b>DEPARTMENT OF PHILOSOPHY</b>					
1	Prof. Sanjyot Pai Vernekar	Professor	Philosophy	Medical Ethics	2
2	Prof. Koshy Tharakan	Professor	Philosophy	Phenomenology and Hermeneutics, Philosophy of Social Science, Cognitive Phenomenology Comparative Philosophy	1
3	Dr. Walter Menezes	Assistant Professor	Philosophy	Classical Indian Philosophy, Vedanta, Buddhism & Jainism, Philosophy of Religion, Legal Philosophy.	4
<b>DEPARTMENT OF POLITICAL SCIENCE</b>					
1	Prof. Rahul Tripathi	Professor	Political Science	International Relations	1
<b>III MANOHAR PARRIKAR SCHOOL OF LAW, GOVERNANCE &amp; PUBLIC POLICY</b>					
<b>WOMEN'S STUDIES</b>					
1	Prof. Shaila Desouza	Professor	Women's Studies	Gender/Women's Studies	4
1	Dr. Aparna Lolyekar	Associate Professor	Women's Studies	Growth and Development Economics, Gender and Development, Spatial Econometrics and Spatial Data analysis	4
<b>IV SCHOOL OF PHYSICAL &amp; APPLIED SCIENCES</b>					
<b>PHYSICS</b>					
1	Prof. Ramesh V. Pai	Professor	Physics	Condensed Matter Physics Theory	1
2	Dr. Sudhir Cherukulappurath	UGC - Assistant Professor	Physics	Nanophotonics, Plasmonics, surface enhanced Spectroscopy	2
3	Dr. Venkatesha R. Hathwar	UGC - Assistant Professor	Physics	Condensed Matter Physics Experiment, X-ray Crystallography	2
4	Dr. Rajesh Kumar Hyam	UGC - Assistant Professor	Physics	Nonmaterials for Energy Application	3
<b>MATHEMATICS</b>					
1	Dr. Manvendra M. Tamba	Assistant Professor	Mathematics	Lie Algebra, Number Theory	1 (With Co-Guide)
<b>ELECTRONICS</b>					
1	Prof. Rajendra Gad	Professor	Electronics	Electronics	1
2	Dr. Jivan Parab	Associate Professor	Electronics	Electronics	1
<b>V FACULTY OF LIFE SCIENCE AND ENVIRONMENT</b>					
<b>DEPARTMENT OF BOTANY</b>					
1	Prof. B. F. Rodrigues	Senior Professor	Botany	Mycorrhizal Research	4
2	Prof. (Smt.) Vijaya U. Kerkar	Professor	Botany	Algae, Pteridophytes	2 (with Co-Guide)
3	Prof. S. Krishnan	Professor	Botany	Plant Histochemistry, Phytochemistry	3

	4	Dr. Rupali Rama Bhandari	Assistant Professor	Botany	Algal Physiology, Biotechnology & Biochemistry	2
<b>DEPARTMENT OF BIOTECHNOLOGY</b>						
	1	Prof. S. C. Ghadi	Professor	Biotechnology	1. Virology (2) Characterization of Polysaccharide degrading enzymes (3) Bioprospecting of pharmaceutically important compounds using microbial enzymes (4) Bioprospecting of endophytic bacteria from insectivorous plants (5) Bioprospecting of Oligosaccharides	2
	2	Dr. Dharmendra Kumar Tiwari	UGC- FRP Assistant Professor	Biotechnology	1) Nanomaterial based drug 2) Photosensitizers and antimicrobial peptide. (3) Fluorescent biosensor for cellular applications. (4) Herbal based drug against bacterial pathogen (5) Chemical and nanomaterial Photosensitizers against pathogens	1
	3	Dr. Sanika Samant	Assistant Professor	Biotechnology	Bioremediation of Environmental pollutants, Bioprospecting for bioactive and biotechnologically significant products from marine derived bacteria and halophilic archaea, metal interactions in halophilic archaea and eubacteria.	2
<b>DEPARTMENT OF MICROBIOLOGY</b>						
	1	Prof. Sandeep Garg	Professor	Microbiology	i. Industrial Microbiology, ii. Medical Microbiology, iii. Epidemiology iv. Microbial Diversity and Bioprospective, . Bio-fertilizer.	3
	2	Dr. Lakshangy S. Charya	Assistant Professor	Microbiology	General and Environmental Microbiology, Bioremediation, Ectomycorrhizal fungi	1
<b>DEPARTMENT OF ZOOLOGY</b>						
	1	Dr. Nitin S. Sawant	Assistant Professor	Zoology	Biodiversity/Wildlife	1
VI	<b>SCHOOL OF CHEMICAL SCIENCES</b>					
	1	Prof. V. S. Nadkarni	Professor	Chemistry	Organic Chemistry/Polymer Chemistry	1
	2	Prof. R. N. Shirsat	Professor	Chemistry	Theoretical Chemistry	1
	3	Prof. Vidhyadatta M. Shet Verenkar	Professor	Chemistry	Materials Chemistry	3
	4	Prof. Sunder N. Dhuri	Professor	Chemistry	Inorganic Chemistry	2
	5	Dr. Digamber Porob	Associate Professor	Chemistry	Materials Chemistry	4
	6	Dr. Rupesh E. Patre	Associate Professor	Chemistry	Synthetic Organic Chemistry, Natural Products, Flow Chemistry, Green Chemistry, Analytical Chemistry, Process development	3
	7	Dr. Rohan Keshav Kunkalekar	Assistant Professor	Chemistry	Solid State Chemistry, Catalysis nanomaterial synthesis	2
	8	Dr. Sandesh Tukaram Bugde	Assistant Professor	Chemistry	Synthetic Organic Chemistry, Asymmetric Organocatalysis	2
	9	Dr. Vinod Mandrekar	Assistant Professor	Chemistry	Polymer Chemistry Synthetics Org. chemistry & Natural Products.	1
VII	<b>SCHOOL OF EARTH OCEAN &amp; ATMOSPHERIC SCIENCES</b>					
	1	Prof. Mahender Kotha	Professor	Earth Science	Sedimentology, Petroleum Geology of Mesozoic Basins, Application of GIS and Remote Sensing in Earth Sciences	1 (With Co-Guide)
	2	Prof. C. U. Rivonker	Professor	Marine Science	Fisheries	2 (With Co-Guide)
	3	Prof. V. M. Matta	Professor	Marine Science	Water Chemistry	2

	4	Dr. A. A. A. Viegas	Associate professor	Earth Science	Igneous Petrology	3
	5	Dr. Aftab Can	Assistant Professor	Marine Science	Satellite Oceanography Meteorology Climate	1
	6	Dr. Niyati Gopinath Kalangutkar	Assistant Professor	Earth Science	Igneous Petrology and Volcanology	1
	7	Dr. Maheshwar Ramakant Nasnodkar	Assistant Professor	Marine Science	Marine Chemistry, Estuarine Geochemistry	4
VIII	<b>GOA BUSINESS SCHOOL</b>					
	<b>ECONOMICS</b>					
	1	Prof. Pranab Mukhopadhyay	Professor	Economics	Macro Economic, Environmental Economics	1
	2	Prof. B. P. Sarath Chandran	Professor	Economics	International Economics, Applied Economics, Development Issues	1
	<b>COMMERCE</b>					
	1	Prof. Y.V. Reddy	Senior Professor	Commerce	Finance and Accounting	2
	<b>MANAGEMENT STUDIES</b>					
	1	Prof. M. S. Dayanand	Professor	Management	Tourism Marketing	1
	2	Prof. Nilesh Borde	Professor	Management	Strategy, Finance, Management Education	1
	3	Dr. R. Nirmala	Associate Professor	Management	HR and Organisational Behaviour, Marketing	3
IX	<b>GOA COLLEGE OF ENGINEERING</b>					
	<b>CIVIL ENGINEERING</b>					
	1	Prof. K.G. Gupta	Professor	Civil Engineering	Environmental Geo Technology Engineering	1
	2	Prof. Ganesh Hegde	Professor	Civil Engineering	Structural Engineering.	2
	<b>ELECTRICAL &amp; ELECTRONICS ENGINEERING</b>					
	1	Prof. Vinayak N. Shet	Professor	Electrical & Electronic Engineering	Power Electronics, Power Factor correction, Power Quality	4
	2	Dr. Anant J. Naik	Professor	Electrical & Electronic Engineering	Renewable Energy	2
	<b>ELECTRONICS &amp; TELECOMMUNICATION ENGINEERING</b>					
	1	Prof. R.B. Lohani	Professor	Electronic Engineering	Electronic Engineering	5
	<b>MECHANICAL ENGINEERING</b>					
	1	Prof. Jagannath B. Hirkude	Professor	Mechanical Engineering	Thermal/Energy Engineering	8
X	<b>V.M. SALGAOCAR COLLEGE OF LAW</b>					
	1	Prof. M.R.K. Prasad	Professor	Law	Law	2
	2	Dr. Shaber Ali	Associate Professor	Law	Law	2
	3	Dr. K.S. Rao	Associate Professor	Law	Law	1
XI	<b>GOA COLLEGE OF MUSIC</b>					
	1	Dr. Shashank S. Maktedar	Associate Professor	Music	Hindustani Classical Vocal	3
	2	Dr. Uday M. Kulkarni	Assistant Professor	Music	Hindustani Classical Tabla	2
XII	<b>GOA COLLEGE OF PHARMACY</b>					
	1	Prof. Gopal Krishna Rao	Principal	Pharmacy	Pharmaceutical Sciences-Drug Discovery, Analytical Method Development & Enhancement of Solubility and Bioavailability, Nanotechnology	2
	2	Dr. Raghuvir R. Pissurlekar	Associate Professor	Pharmacy	Pharmaceutical Sciences	1
	3	Dr. Shailendra S. Gurav	Associate Professor	Pharmacy	Natural products research phytopharmacology Ayurveda biology comp. biology, Herbal Novel drug delivery system	2
	4	Dr. Rupesh K. Shirodkar	Associate Professor	Pharmacy	Pharmaceuticals Novel, Drug Delivery System (NDDS)	1
XII	<b>GOVT. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE, KHANDOLA (RESEARCH CENTRE IN CHEMISTRY)</b>					
	1	Prof. Vidya Desai	Professor	Chemistry	Green Chemistry, Medicinal Chemistry, Synthetic Organic Chemistry and Supramolecular Chemistry	4
	2	Dr. Umesh Gawas	Assistant Professor	Chemistry	Material Science, Mixed metal oxides, Photocatalysis	1
	3	Dr.(Ms.) Harsha Uskaikar	Associate Professor	Chemistry	Electrochemistry	4
	4	Dr. Kiran Suresh Naik	Assistant Professor	Chemistry	Solid State Chemistry	2

XIII	<b>GOVT. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE, KHANDOLA (RESEARCH CENTRE IN Microbiology)</b>					
	1	Dr. Dilecta D'Costa	Associate Professor	Microbiology	Medical Microbiology, Food Microbiology	1
	2	Dr. Sunita Borkar	Associate Professor	Microbiology	Alkaliphiles, Extremophiles, PGPR, Biofertilizers	2
XIV	<b>GOVT. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE, KHANDOLA (RESEARCH CENTRE IN GEOGRAPGY)</b>					
	1	Dr. C. P. Hiremath	Associate Professor	Geography	Regional Geography	1
	2	Dr. Prakash Morakar	Professor	Geography	Regional Planning, Tourism, Agriculture and Economic Geography	1
	3	Dr. Dadapir M. Jakati	Associate Professor	Geography	Economics Resource, Marketing and Environmental Geography	2
XV	<b>SANT SOHIROBANATH AMBIYE GOVT. COLLEGE OF ARTS &amp; COMMERCE, VIRNODA,PERNEM,GOA (RESEARCH CENTRE IN</b>					
	1	Prof. Filipe Rodrigues e Melo	Professor	Commerce	Accounting, Management and Tourism	1
XVI	<b>GOVT. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE, SANQUELIM, GOA (RESEARCH CENTRE IN ECONOMICS)</b>					
	1	Dr. Manasvi Manoj Kamat	Associate Professor in Economics	Economics	Industry, Economic Policy, International Trade, Banking and Finance, Agriculture.	2
	2	Dr. Geetanjali C. Achrekar	Associate Professor in Economics	Economics	Labour Economics, Economic Growth, Development, Education, Health Economics, Environmental Economics, Financial Economics, International Economics	2
XVI	<b>GOVT. COLLEGE OF ARTS, SCIENCE &amp; COMMERCE, SANQUELIM, GOA (RESEARCH CENTRE IN HINDI)</b>					
	1	Prof. Soniya Sirsat	Professor	Hindi	Fiction, Poetry	3
	2	Dr. Kiran Popkar	Assistant Professor	Hindi	Short stories, Novel Women discourse , Translation, folklore	2
XVII	<b>NATIONAL CENTRE FR POLAR AND OCEAN REASERCH (NCPOR)</b>					
	1	Dr. Thamban Meloth	Scientist G/ Pay Level- 14	Marine Sciences	Polar Sciences	2
				Earth Science	Polar Sciences	1
	2	Dr. Dhananjai K. Pandey	Scientist F / Pay Level- 13A	Earth Sciences	Marine Geology/ Geophysics	1
	3	Dr. Rahul Mohan	Scientist F/Pay Level -13A	Marine Science	Polar Science/Oceanic micropaleontology/ Paleoclimate	1
	4	Dr. Sarat Chandra Tripathy	Scientist F / Pay Level- 13A	Marine Science	Biological Oceanography	2
	5	Dr. Alvarinho Luis	Scientist E / Pay Level- 13A	Marine Science	Physical Oceanography, Remote Sensing & GIS	1
				Earth Science		2
	6	Dr. Manish Tiwari	Scientist E / Pay Level- 13	Marine Science	Paleoceanography & Paleoclimatology	2
	7	Dr. Anoop Kumar Tiwari	Scientist E / Pay Level- 13	Marine Science	Polar Environment	6
	8	Dr. Laluraj C.M.	Scientist E / Pay Level- 13	Marine Science	Marine Chemistry	1
	9	Dr. Nuncio Murukesh	Scientist D/ Pay Level-12	Marine science	Marine science, Oceanography, Ocean atmosphere interactions, Polar climate	1
XVI	<b>NATIONAL INSTITUTE OF OCEANOGRAPHY(NIO)</b>					
	1	Dr. Rajeev Saraswat	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Paleoclimate Paleooceanography Micropaleontology	2
	2	Dr.Supriya Shet Tilvi	Sr. Scientist Grade pay-7600 Level-12	Marine Sciences	Marine Natural products/Marine Chemical Ecology	1
				Chemistry		1
	3	Dr. Dattesh V Desai	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Biological Oceanography, Marine Biology and Ecology, Impact of climate change on marine environment, Biofouling and Bioinvasion	4
	4	Dr. Firoz Badesab	Senior Scientist Grade pay-7600 Level-12	Earth Science	Marine Geophysics	2
	5	Dr. Siby Kurian	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Marine Science/ Chemical Oceanography	2
	6	Dr. Narsinh L. Thakur	Senior Principal Scientist	Marine Sciences	Marine Chemical ecology, Bioprospecting	1
	7	Dr. Sanil Kumar VV	Chief Scientist, CSIR-NIO Goa	Marine Sciences	Ocean waves and coastal processes	3



8	Dr Lidita Khandeparker	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Biological Oceanography (Aquatic microbial ecology, Marine biofilms, Biofouling and Bio-invasion, Bio-communication in the oceans, Marine Pathogenic bacteria, Marine food web dynamics, Proteomics and Genomics)	4
9	Dr. Rakhee Khandeparker	Principal Scientist Pay Level 13 (GP 8700)	Microbiology	Microbiology and Biotechnology	3
10	Dr.Pratima Kessarkar	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Marine Geology	3
11	Dr Manguesh Gauns	Senior Principal Scientist pay level 13(GP 8700)	Marine Sciences	Marine Biology	2
12	Dr. Damodar M.Shenoy	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Biogeochemistry	4
13	Dr.Cathrine Sumathi Manohar	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Marine Microbiology	2
14	Dr. Anil K.Pratihary	Senior Scientist Grade pay-7600 Level-12	Marine Sciences	Marine Biogeochemistry/ Chemical Oceanography	4
15	Dr.Suhas S. Shetye	Senior Scientist Grade pay-7600 Level-12	Marine Sciences	Biogeochemistry	3
16	Dr. Temjensangba Imchen	Senior Scientist Grade pay-7600 Level-12	Marine Sciences	Marine botany, biodiversity, bioinvasion, rocky intertidal ecology, seaweeds, ecophysiology	2
17	Dr.Maria Judith Gonsalves	Senior Scientist Grade pay-7600 Level-12	Marine Sciences	Marine Biology, Marine Ecology and biogeochemical processes	3
18	Dr.Neetu S	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Physical Oceanography	4
19	Dr.Jagadish S. Patil	Principal Scientist Pay Level 13 (GP 8700)	Marine Sciences	Marine Biology and Ecology	3
20	Dr. Keisham S. Singh	Senior Scientist Grade pay-7600 Level-12	Chemistry	Inorganic Chemistry	1
21	Dr. Abhishek Saha	Senior Scientist Grade pay-7600 Level-12	Earth Science	Ocean floor petrology, geochemistry and chemical geodynamics	1
22	Dr.Sushant Naik	Senior Scientist Grade pay-7600 Level-12	Marine Sciences	Climate change, Palaeoclimate & Palaeoceanography,	1
23	Dr.Ashwini Kumar	Senior Scientist Grade pay-7600 Level-12	Marine Sciences	Atmospheric chemistry, Biogeochemistry	1
24	Dr. Hema Uskaikar	Principal Scientist Pay Level 13 (GP 8700)	Earth Science	Nutrient cycling and greenhouse gases	4

## RESERVATION OF SEATS FOR Ph.D. PROGRAMME

## Annexure II

Sr. No.	SUBJECT	No. of Vacancies	SC	ST	OBC	PwD	EWS	UR
	<b>Goa University Schools and Department:</b>							
<b>I</b>	<b>FACULTY OF LANGUAGES &amp; LITERATURE</b>							
a	FRENCH	2		1				1
b	HINDI	1						1
c	KONKANI	1						1
<b>II</b>	<b>FACULTY OF SOCIAL SCIENCES</b>							
a	HISTORY	2			1			1
b	PHILOSOPHY	7		1	2		1	3
c	POLITICAL SCIENCE	1						1
<b>III</b>	<b>MANOHAR PARRIKAR SCHOOL OF LAW, GOVERNANCE &amp; PUBLIC POLICY</b>							
	WOMEN'S STUDIES	8		1	2	1		4
<b>IV</b>	<b>FACULTY OF LIFE SCIENCES &amp; ENVIRONMENT</b>							
a	BOTANY	11		2	3	1	1	4
b	ZOOLOGY	1						1
c	BIOTECHNOLOGY	5		1	2			2
	MICROBIOLOGY	4			1		1	2
<b>V</b>	<b>SCHOOL OF PHYSICAL &amp; APPLIED SCIENCE</b>							
a	PHYSICS	8		1	2	1	1	3
b	ELECTRONICS	2			1			1
c	MATHEMATICS	1						1
<b>VI</b>	<b>SCHOOL OF EARTH OCEAN &amp; ATMOSPHERIC SCIENCES</b>							
a	MARINE SCIENCE	9	1	1	2		1	4
b	EARTH SCIENCE	5			2		1	2
<b>VII</b>	<b>SCHOOL OF CHEMICAL SCIENCES</b>							
	CHEMISTRY	19	1	3	4	1	1	9
<b>VIII</b>	<b>GOA BUSINESS SCHOOL</b>							
a	COMMERCE	2			1			1
b	ECONOMICS	2			1			1
c	MANAGEMENT STUDIES	5		1	1		1	2
	<b>Research Centres/Institutes:</b>							
<b>IX</b>	<b>GOA COLLEGE OF ENGINEERING</b>							
a	ELECTRICAL & ELECTRONICS	6			2		1	3
b	ELECTRONIC AND TELECOMMUNICATION	5		1	1			3
c	MECHANICAL ENGINEERING	8	1	1	2	1	1	2
d	CIVIL ENGINEERING	3			1			2
<b>X</b>	<b>V. M. SALGAONKAR COLLEGE OF LAW</b>	5		1	2			2
<b>XI</b>	<b>GOA COLLEGE OF PHARMACY</b>	6		1	2		1	2
<b>XII</b>	<b>GOA COLLEGE OF MUSIC</b>	5		1	1		1	2
<b>XIII</b>	<b>GOVT COLLEGE OF ARTS, SCI. &amp; COMMERCE, KHANDOLA</b>							
a	RESEARCH CENTRE IN CHEMISTRY	11	1	1	3	1	1	4
b	RESEARCH CENTRE IN GEOGRAPHY	4		1	1			2
c	RESEARCH CENTRE IN MICROBIOLOGY	3			1			2
<b>XIV</b>	<b>S.S.AMBIYE GOVT.COLLEGE OF ARTS &amp; COMMERCE, PERNEM</b>							
	RESEARCH CENTRE IN COMMERCE	1						1
<b>XV</b>	<b>GOVT.COLLEGE OF ARTS, SC. &amp; COMMERCE, SANQUELIM</b>							

	a	RESEARCH CENTRE IN ECONOMICS	4			1	1		2
	b	RESEARCH CENTRE IN HINDI	5		1	2			2
XVI		<b>NATIONAL CENTRE FOR POLAR AND OCEAN RESEARCH (NCPOR)</b>							
	a	MARINE SCIENCE	16	1	2	5	1	1	6
	b	EARTH SCIENCE	4		1	1			2
XVII		<b>NATIONAL INSTITUTE OF OCEANOGRAPHY (NIO)</b>							
	a	MARINE SCIENCE	49	1	6	13	3	5	21
	b	EARTH SCIENCE	7		1	2			4
	c	MICROBIOLOGY	3			1			2
	d	CHEMISTRY	2			1			1