

Goa University Annual Quality Assurance Report (AQAR)

(June 2015 to May 2016)



विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान

NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission P. O. Box. No. 1075, Opp: NLSIU, Nagarbhavi, Bangalore - 560 072 India

The Annual Quality Assurance Report (AQAR) of the IQAC

Part - A

1. Details of the Institution

| | • |
|--|--|
| 1.1 Name of the Institution: | Goa University |
| 1.2 Address Line 1: | Goa University P.O. |
| Address Line 2: | Taleigao Plateau |
| City/Town: | Panaji |
| State: | Goa |
| Pin Code: | 403 206 |
| Institution e-mail address: | registrar@unigoa.ac.in |
| Contact Nos.: | 0832-6519048; 0832-6519302 |
| Name of the Head of the Institution: | Dr Satish Shetye (Prof. Varun Sahni wef 19.08.2016) |
| Tel. No. with STD Code: 0832-6519001 | |
| Mobile: | 8698099225 |
| Name of the IQAC Co-ordinator: | Prof. Pranab Mukhopadhyay |
| Mobile: | 0832-6519266 |
| IQAC e-mail address: | iqac@unigoa.ac.in |
| 1.3 NAAC Track ID: | GAUNGN10025 |
| 1.4 NAAC Executive Committee No. & Date: | 66 th Standing Committee meeting held on 24 th |
| | September 2014 |
| 1.5 Website address: | https://www.unigoa.ac.in/ |
| Web-link of the AQAR: | https://www.unigoa.ac.in/IQAC.php |
| | |

1.6 Accreditation Details

| SI. | Cycle | Grade | CGPA | Year of | Validity Period | |
|-----|-----------------|-----------|------|---------------|----------------------------|--|
| No. | | | | Accreditation | | |
| 1 | 1 st | Four Star | NA | 2001 | 2001-06 | |
| 2 | 2 nd | В | 2.6 | 2009 | 8 Mar 2009 to 7 Mar 2014 | |
| 3 | 3 rd | А | 3.09 | 2014 | 24 Sep 2014 to 23 Sep 2019 | |

1.7 Date of Establishment of IQAC (DD/MM/YYYY):11/07/2009

1.8 AQAR for the year: AY 2015-16 (1 Jun 2015 to 31 May 2016)

1.9 Details of the previous year's AQAR submitted to NAAC after the latest Assessment and Accreditation by NAAC:

| (i) 2009-10 (14/06/2013) | (ii) 2010-11(14/06/2013) | (iii) 2011-12 (10/12/2012) |
|---------------------------|--------------------------|----------------------------|
| (iv) 2012-13 (30/12/2013) | (v) 2013-14 (19/04/2015) | (vi) 2014-15 (23/10/2015) |

1.10 Institutional Status

| University: | <u>State</u> | / Central /Deemed/ Private |
|-------------|--------------|----------------------------|
| | | |

| Regulatory Agency approved Institution: (eg. AICTE, BCI, MCI, PCI, NCI) | Yes No | | |
|---|-----------------------|-----------------------|--------------|
| Type of Institution: | Co-education Women | Men | |
| Area | Semi-Urban | Rural | Tribal |
| Financial Status | Grant-in-aid UGC | 2(f) / <u>UGC 12B</u> | Grant-in-aid |
| | + Self Financing | Totally Self | -financing |

1.11 Type of Faculty/Programme

| Arts | Υ | Science Y | Commerce Y | Law |
|----------------|---|-----------|-------------|----------------|
| PEI (Phys Edu) | | TEI (Edu) | Engineering | Health Science |
| Management | Υ | Any other | | |

1.12 Name of the Affiliating University (for the Colleges)

Not applicable

1.13 Special status conferred by Central/ State Government-- UGC/CSIR/DST/DBT/ICMR etc

| Autonomy by State/Central | Υ | | |
|--|---|---------------------|---|
| Govt/University | | | |
| University with Potential for Excellence | | UGC-CPE | |
| DST Star Scheme | | UGC-CE | |
| UGC-Special Assistance Programme | Υ | DST-FIST | Υ |
| UGC-Innovative PG programmes | Υ | Any other (Specify) | |
| UGC-COP Programmes | | | |

2. IQAC Composition and Activities

| 2.1 No. of Teachers | 8 |
|--|----|
| 2.2 No. of Administrative/Technical staff | 1 |
| 2.3 No. of students | 0 |
| 2.4 No. of Management representatives | 1 |
| 2.5 No. of Alumni | 1 |
| 2.6 No. of any other stakeholder and community | 0 |
| representatives | |
| 2.7 No. of Employers/ Industrialists | 1 |
| 2.8 No. of other External Experts | 2 |
| 2.9 Total No. of members | 14 |

2.10 No. of IQAC meetings held in 2015-16:

Two (28 Jan 2016, 9 Oct 2015)

2.11 No. of meetings with various stakeholders:

| Faculty | 2 |
|--------------------|---|
| Non-Teaching Staff | |
| Students | |
| Alumni | |
| Others | |
| Total | 2 |

If yes, mention the amount Not Applicable

- 2.13 Seminars and Conferences (only quality related)
 - (i) No. of Seminars/Conferences/ Workshops/Symposia organized by the IQAC

| International | |
|-------------------|---|
| National | |
| State | |
| Institution Level | 1 |
| Total | 1 |

- (ii) Themes: Use of Open Source software (Mint OS, LibreOffice, Moodle): 4 Apr 2016
- 2.14 Significant Activities and contributions made by IQAC
 - Streamlining of GU website
 - Updation of staff, student databases
 - Participation in various National Ranking Surveys (NIRF, India Today, The Week, etc.)

2.15 Plan of Action by IQAC/Outcome

The plan of action chalked out by the IQAC in the beginning of the year towards quality enhancement and the outcome achieved by the end of the year*

| Plan of Action | Achievements |
|--------------------------------------|---|
| Completion of institutional | A repository consisting of over 4500 records (with full-text |
| repository of all journal/e- | of 2/3 items is in place) is available on web at |
| publications in digitized form | http://irgu.unigoa.ac.in/ |
| Conduct training and awareness | Informal interaction with various college IQAC Directors |
| workshops related to Accreditation | and participation in their IQAC |
| for affiliated colleges | |
| Conduct a training workshop for | Director IQAC was a member of the Academic Council. This |
| college administrators on | provided a forum for discussing various CAS related issues |
| implementation of CAS guidelines | in colleges |
| Updating of PG-Masters and PhD | IQAC is actively involved in assisting update of Statutes and |
| ordinances | Ordinances in Goa University as an ongoing process |
| Introduction of CBCS at the UG level | In process. |
| | There was extensive stakeholder consultation undertaken |
| | by the university and it is expected to be implemented in |
| | AY 2017-18 |

| Implementation of initial modules of | In trial stage |
|--------------------------------------|---|
| UMS | |
| Complete Online fees payment | Completed for all new entrants in the PG and PhD |
| gateway for all students | programmes |
| Have a coordinated time table | The time-table for various programmes has now been |
| across the campus to facilitate the | added to every departmental page on website. There is |
| functioning of CBCS system | also an agreement across departments that elective |
| | courses would be scheduled in the afternoon so that |
| | students can takes courses across departments |

^{*} Attach the Academic Calendar of the year as Annexure. 2.15 (Attached)

Whether the AQAR was placed in statutory body: Yes No

Management Syndicate **Any other body**

Provide the details of the action taken:

 Goa University has accorded Statutory status to IQAC and is chaired by the Vice Chancellor. The IQAC approves the Annual Report before it is uploaded to the GU website and submitted to NAAC and other bodies.

Criterion - I

1. Curricular Aspects

1.1 Details about Academic Programmes

| Level of the Programme | Number of existing Programmes | Number of programmes added during the year | Number of self- financing programmes | Number of value added / Career Oriented programmes |
|---------------------------|-------------------------------------|--|--|---|
| PhD | 25 | 0 | 0 | 0 |
| PG | 36 | 0 | 2 | 36 |
| UG | 1 | 0 | 0 | |
| PG Diploma | 2 | | | |
| Advanced Diploma | | | | |
| Diploma | | | | |
| Certificate | 2 | | | |
| Others (MPhil) | 21 | | | |
| Total | 87 | | 02 | 36 |
| Interdisciplinary | | | | |
| Innovative | | | | |

1.2 (i) Flexibility of the Curriculum: CBCS/Core/Elective option / Open options

(ii) Pattern of programmes:

| Pattern | Number of |
|-----------|------------|
| | programmes |
| Semester | 35 |
| Trimester | 1 |
| Annual | 0 |

1.3 Feedback from stakeholders

| Alumni | Υ | Parents | Υ |
|-----------|---|----------|---|
| Employers | Υ | Students | Υ |

Mode of feedback: Online and Manual* Co-operating schools (for PEI)

1.4 Whether there is any revision/update of regulation or syllabi, if yes, mention their salient aspects

The syllabi across all departments get routinely updated either in terms of content or in structure. These are far too many to list here but can be gleaned from AC minutes if necessary.

1.5 Any new Department/Centre introduced during the year. $\underline{\text{No}}$

^{*}IQAC has set up a mechanism to collect online student feedback on each course conducted in the university. Students, Parents, employers, community stakeholders and alumni are encouraged to give feedback directly to the concerned official including the Vice Chancellor either by email or in person.

Criterion - II

2. Teaching, Learning and Evaluation

2.1 Total No. of permanent faculty: Data as from last year's report

| | Total | Asst. | Associate | Professors | Others |
|-------------|-------|------------|------------|------------|--------|
| | | Professors | Professors | | |
| Sanctioned | 191 | 96 | 64 | 31 | 0 |
| Direct | 108 | 76 | 25 | 7 | 0 |
| Appointment | | | | | |
| CAS | 108 | 31 | 27 | 50 | 0 |

2.2 No. of permanent faculty with Ph.D.: 92

2.3 No. of Faculty Positions Recruited (R) and Vacant (V) during the year:

No recruitment of permanent staff seen as from NIRF data this year

| Asst. | | Assoc | iate | Professors | | Othe | rs | Total | | |
|-------|--------|-------|-------|------------|--|------|----|-------|----|--|
| Profe | essors | Profe | ssors | | | | | | | |
| R | V | R | V | R V | | R | V | R | V | |
| | 20 | | 39 | 24 | | 0 | | | 83 | |

2.4 No. of Guest and Visiting faculty and Temporary faculty

Temp faculty data as from NIRF (temp – continuous + temp – contract)

| Guest | Visiting (VRPP) | Temporary |
|-------|-----------------|-----------|
| | 17 | 42 |

2.5 Faculty participation in conferences and symposia:

| No. of Faculty | International level | National level | State level |
|-------------------------------|---------------------|----------------|-------------|
| Attended Seminars/ Workshops* | 4 | 21 | 10 |
| Presented papers | 74 | 104 | 10 |
| Resource Persons | 4 | 30 | 7 |

^{*} Does not include those who presented papers/ acted as resource persons

2.6 Innovative processes adopted by the institution in Teaching and Learning: (as of last year)

- Use of presentation tools, documentaries, videos, MOOC/MOODLE type exercises, multimedia as language teaching tool, observation and classroom teaching experience
- Group activities, games, workshops, exploration of websites of various institutions
- Industry internship
- Seminars, assignments and discussions
- MA Dissertation and Participant learning
- Introduction of skill based courses
- Field visits for awareness building

- 2.7 Total No. of actual teaching days during this academic year: 180
- 2.8 Examination/ Evaluation Reforms initiated by the Institution (for example: Open Book Examination, Bar Coding, Double Valuation, Photocopy, Online Multiple Choice Questions)
 - Multiple choice questions (including Online)
 - Open book exam
 - Tests, seminars and assignments
 - OMR for admission test
 - Group discussions
 - Film review
- 2.9 No. of faculty members involved in curriculum restructuring/revision/syllabus development as member of Board of Study/Faculty/Curriculum Development workshop

19 19 23

- 2.10 Average percentage of attendance of students: 83%
- 2.11 Course/Programme wise distribution of pass percentage:

| Course | Gra | de_O | Gr | ade_A | Gra | de_B+ | Gr | ade_B | Gra | ade_C | Gra | de_D | F_ | (Fail) | Т | otal |
|----------------|-----|-------|----|--------|-----|-------|----|--------|-----|-------|-----|-------|----|--------|----|--------|
| Masters | No | % | No | % | No | % | No | % | No | % | No | % | No | % | No | % |
| Applied | 11 | 47.83 | 8 | 34.78 | 3 | 13.04 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 1 | 4.35 | 23 | 100.00 |
| Geology | | | | | | | | | | | | | | | | |
| Biochemistry | 5 | 27.78 | 6 | 33.33 | 5 | 27.78 | 1 | 5.56 | 0 | 0.00 | 1 | 5.56 | 0 | 0.00 | 18 | 100.00 |
| Biotechnology | 9 | 32.14 | 11 | 39.29 | 3 | 10.71 | 2 | 7.14 | 0 | 0.00 | 1 | 3.57 | 2 | 7.14 | 28 | 100.00 |
| Botany | 12 | 41.38 | 10 | 34.48 | 0 | 0.00 | 2 | 6.90 | 0 | 0.00 | 2 | 6.90 | 3 | 10.34 | 29 | 100.00 |
| Business | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 79 | 100.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 79 | 100.00 |
| Administration | | | | | | | | | | | | | | | | |
| (FS) | | | | | | | | | | | | | | | | |
| Chemistry | 32 | 44.44 | 24 | 33.33 | 3 | 4.17 | 2 | 2.78 | 0 | 0.00 | 0 | 0.00 | 11 | 15.28 | 72 | 100.00 |
| Economics | 2 | 5.26 | 10 | 26.32 | 4 | 10.53 | 6 | 15.79 | 1 | 2.63 | 1 | 2.63 | 14 | 36.84 | 38 | 100.00 |
| Electronics | 4 | 28.57 | 8 | 57.14 | 0 | 0.00 | 0 | 0.00 | 1 | 7.14 | 0 | 0.00 | 1 | 7.14 | 14 | 100.00 |
| English | 9 | 22.50 | 16 | 40.00 | 6 | 15.00 | 2 | 5.00 | 1 | 2.50 | 1 | 2.50 | 5 | 12.50 | 40 | 100.00 |
| French | 3 | 60.00 | 1 | 20.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 1 | 20.00 | 0 | 0.00 | 5 | 100.00 |
| Hindi | 8 | 21.62 | 20 | 54.05 | 5 | 13.51 | 3 | 8.11 | 0 | 0.00 | 0 | 0.00 | 1 | 2.70 | 37 | 100.00 |
| History | 10 | 30.30 | 14 | 42.42 | 3 | 9.09 | 1 | 3.03 | 0 | 0.00 | 0 | 0.00 | 5 | 15.15 | 33 | 100.00 |
| International | 2 | 40.00 | 1 | 20.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 2 | 40.00 | 5 | 100.00 |
| Studies | | | | | | | | | | | | | | | | |
| Konkani | 6 | 13.95 | 22 | 51.16 | 2 | 4.65 | 8 | 18.60 | 1 | 2.33 | 0 | 0.00 | 4 | 9.30 | 43 | 100.00 |
| Commerce | 45 | 80.36 | 11 | 19.64 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 56 | 100.00 |
| Marathi | 7 | 25.93 | 11 | 40.74 | 2 | 7.41 | 3 | 11.11 | 1 | 3.70 | 0 | 0.00 | 3 | 11.11 | 27 | 100.00 |
| Marine | 4 | 33.33 | 7 | 58.33 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 1 | 8.33 | 12 | 100.00 |
| Biotechnology | | | | | | | | | | | | | | | | |
| Marine | 2 | 15.38 | 5 | 38.46 | 4 | 30.77 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 2 | 15.38 | 13 | 100.00 |
| Microbiology | | | | | | | | | | | | | | | | |
| Marine | 9 | 50.00 | 4 | 22.22 | 0 | 0.00 | 0 | 0.00 | 1 | 5.56 | 0 | 0.00 | 4 | 22.22 | 18 | 100.00 |
| Science | | | | | | | | | | | | | | | | |
| Mathematics | 3 | 15.00 | 1 | 5.00 | 1 | 5.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 15 | 75.00 | 20 | 100.00 |
| Microbiology | 14 | 70.00 | 5 | 25.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 1 | 5.00 | 0 | 0.00 | 20 | 100.00 |
| Philosophy | 0 | 0.00 | 6 | 100.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 6 | 100.00 |
| Physics | 5 | 21.74 | 3 | 13.04 | 1 | 4.35 | 1 | 4.35 | 2 | 8.70 | 1 | 4.35 | 10 | 43.48 | 23 | 100.00 |

| Political | 4 | 16.00 | 15 | 60.00 | 4 | 16.00 | 1 | 4.00 | 1 | 4.00 | 0 | 0.00 | 0 | 0.00 | 25 | 100.00 |
|----------------|----|-------|----|-------|------|---------|------|---------|----|-------|-----|---------|---|-------|----|--------|
| Science | | | | | | | | | | | | | | | | |
| Portuguese | 1 | 25.00 | 1 | 25.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 2 | 50.00 | 4 | 100.00 |
| Sociology | 2 | 12.50 | 6 | 37.50 | 2 | 12.50 | 2 | 12.50 | 0 | 0.00 | 2 | 12.50 | 2 | 12.50 | 16 | 100.00 |
| Zoology | 15 | 65.22 | 8 | 34.78 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 23 | 100.00 |
| Business | | 0.00 | | 0.00 | | 0.00 | 58 | 100.00 | | 0.00 | | 0.00 | | 0.00 | 58 | 100.00 |
| Administration | | | | | | | | | | | | | | | | |
| | | | | | Dist | inction | Firs | t Class | Se | cond | Pas | s Class | F | ails | Т | otal |
| | | | | | | | | | C | Class | | | | | | |
| BLISc | 1 | | | | 4 | 16.00 | 12 | 48.00 | 6 | 24.00 | 0 | 0.00 | 3 | 12.00 | 25 | 100.00 |
| | yr | | | | | | | | | | | | | | | |
| MLISc | 1 | | | | 15 | 62.50 | 7 | 29.17 | 0 | 0.00 | 0 | 0.00 | 2 | 8.33 | 24 | 100.00 |
| | yr | | | | | | | | | | | | | | | |
| MCA | 3 | | | | 4 | 6.67 | 32 | 53.33 | 22 | 36.67 | 0 | 0.00 | 2 | 3.33 | 60 | 100.00 |
| | yr | | | | | | | | | | | | | | | |
| MBA | 5 | | | | 3 | 37.50 | 5 | 62.50 | 0 | 0.00 | 0 | 0.00 | 0 | 0.00 | 8 | 100.00 |
| Integrated | yr | | | | | | | | | | | | | | | |

2.12 How does IQAC Contribute/Monitor/Evaluate the Teaching & Learning processes: (as earlier)

- The IQAC has come establish itself as the Nodal Centre for information gathering and dissemination in the campus. It is organically linked to the students, administration as well as teaching faculty. It builds links between the past students and Goa's citizens at large.
- It has already pioneered an online student feedback system on each course conducted in the university. In 2013-14 the IQAC successfully experimented with collection of academic output from each faculty member in online format. This was repeated successfully in 2014-15/2015-16.
- This helps the University in regularly receiving information updates, preparing the Annual Report and in responding to many routine RTI queries on academic activities.
- In a further fillip to the role of the IQAC, now all Board of Studies reports are marked to the IQAC for information.
- The IQAC has helped in website update and all time tables semester-wise are now placed on the website.

2.13 Initiatives undertaken towards faculty development*

| Faculty / Staff Development Programmes | Number of programmes | Number of faculty benefited |
|--|----------------------|-----------------------------|
| Refresher courses | 1 | 35 |
| UGC – Faculty Improvement Programme | | |
| HRD programmes | | |
| Orientation programmes | 2 | 85 |
| Faculty exchange programme | | |
| Staff training conducted by the university | | |
| Staff training conducted by other institutions | | |
| Summer / Winter schools, Workshops, etc. | | |
| Others Short Term Courses | 1 | 28 |

^{*}As indicated by the Academic Staff College where faculty members from Goa University and elsewhere attended these courses

2.14 Details of Administrative and Technical staff

| Category | Number of | Number of | Number of | Number of |
|----------------------|-----------|-----------|------------------|------------------|
| | Permanent | Vacant | permanent | positions filled |
| | Employees | Positions | positions filled | temporarily |
| | | | during the Year | |
| Administrative Staff | 276 | 48 | 04 | 04 |
| Technical Staff | 90 | 58 | 04 | 0 |

Criterion - III

3. Research, Consultancy and Extension

3.1 Initiatives of the IQAC in Sensitizing/Promoting Research Climate in the institution

- IQAC aims at sensitizing and promoting research climate in the university in two ways creating the awareness and by finding solutions to research hurdles
- It maintains and updates the publications repository of faculty publications
- In 2015-16, IQAC conducted one workshop on use of open source software such as Mint (OS), LibreOffice (office applications) and Moodle (Course Management System)
- Sometimes research is hampered by bureaucratic procedures which is a great disincentive to researchers. IQAC also assists researchers in finding suitable solutions in managing research grants through suitable and incremental changes in administrative procedures

3.2 Details regarding major projects

| | Completed | Ongoing | Sanctioned | Submitted | | | |
|---------------------|----------------------------|---------|------------|-----------|--|--|--|
| Number | 13 | 19 | 31 | 25 | | | |
| Outlay in Rs. Lakhs | Please see the lists below | | | | | | |

Completed projects

| PI | Dept | Title | Funding | ng Sanctioned Duration | |
|-------------------|------------|---|------------|------------------------|------------|
| | | | Agency | amount | |
| | | | | (Rs. In | |
| | | | | lakhs) | |
| Krishnan, S. | Botany | Large Scale Screening for High Garcinol and Hydroxycitric | CSIR | 12.69 | Oct 2012 - |
| | | Acid, in Vitro Culture and Molecular Characterization of | | | Mar 2016 |
| | | Garcinia species from the Western Ghats of India | | | |
| Sharma, P.K. | Botany | Infrastructure development grant for Biodiversity, Eco- | DST-FIST | 60.00 | |
| | | physiology and Biotechnology | | | |
| Salker, A.V. | Chemistry | Selective and Controlled Catalytic Oxidation of Chemically | CSIR | 20.00 | May 2012 |
| | | Sensitive Organic Substrates Over Metal Organic | | | - May |
| | | Compounds and Mixed Metal Oxides | | | 2015 |
| Mukhopadhyay, | Economics | Linking Coastal Management with Ecosystems Services in | NCSCM, | 19.70 | Nov 2013 - |
| P. | | India | MoEFCC | | Nov 2015 |
| | | | (GoI) | | |
| Hegde-Desai, | Management | Financial Literacy and other Factors Affecting the Usage of | The Stock | 0.65 | 2015-16 |
| P.G. (PI); Borde, | Studies | SME Platform of BSE by SMEs in Goa | Exchange | | |
| N. (Co-PI) | | | Investors' | | |

| | | | Protection | | |
|--------------------|------------|---|-------------|-------|------------|
| | | | Fund | | |
| Borde, N. (PI); | Management | Share Value Creation Index for Sensex Companies | The Stock | 0.65 | 2015-16 |
| Hegde-Desai, | Studies | | Exchange | | |
| P.G. (Co-PI) | | | Investors' | | |
| | | | Protection | | |
| | | | Fund | | |
| Borde, N. (PI); | Management | Starting a new mineral water business in Goa | Mr. Rajesh | 1.04 | 2015-16 |
| Hegde-Desai, | Studies | | Solanki, | | |
| P.G.; Dayanand, | | | Proprietor, | | |
| M.S. and | | | New | | |
| Mekoth, N. (Co- | | | Venture | | |
| PI) | | | | | |
| Matta, V.M. | Marine | Atmospheric Deposition and its Influence on Nutrients in | MoES (GoI) | 47.37 | Sep 2011 - |
| | Sciences | Coastal Waters of Goa: West Coast of India | | | Sep 2016 |
| Menon, H.B. | Marine | Variability of Colour Components in Estuarine and Coastal | NRB, | 61.47 | Jul 2011 - |
| | Sciences | Regions of Eastern Arabian Sea and its Predictive | Ministy of | | Jun 2014 |
| | | Potential to Naval Applications | Defence | | |
| | | | (GoI) | | |
| Pai, R.V. | Physics | Cluster Mean-Field Theory for Bose | DSTE-Goa | 6.78 | Jan 2014 - |
| | | | | | Jan 2017 |
| Priolkar, K.R. | Physics | Mechanisms of New Long-Lasting Luminescence | Indo French | 24.28 | Jul 2011 - |
| | | Biomarkers | Commission | | Jun 2015 |
| | | | for | | |
| | | | Promotion | | |
| | | | of | | |
| | | | Advanced | | |
| | | | Research | | |
| | | | (IFCPAR), | | |
| | | | New Delhi, | | |
| | | | India | | |
| Shringare, A.P. | Political | Panchayat Raj Institutions and Rural Development in Goa | ICSSR | 5.00 | 2014-07- |
| | Science | | | | 01 |
| Coelho, J.P. (PI); | Sociology | Constructing Nation in The Diaspora: Political Sociological | ICSSR | 1.00 | Mar 2013 |
| Somayaji, G. | | Study of the Tibetan Refuges in Bylakuppr Settlements | | | - Mar |
| (Co-PI) | | South India | | | 2016 |

Ongoing projects

| PI | Dept | Title | Funding | g Sanctioned Duration | |
|-------------------|---------------|--|-----------|-----------------------|------------|
| | | | Agency | amount | |
| | | | | (Rs. In | |
| | | | | lakhs) | |
| Kerkar, S. | Biotechnology | Impact of Tourism on Estuarine Water Quality and its | DSTE, GOA | 19.55 | Nov 2013 - |
| | | Effect on the Mangrove and Salt-Pan Ecosystems of Goa | | | Oct 2016 |
| Muraleedharan, | Biotechnology | Biogeochemical Studies of the Arabian Sea and the Effect | MoES | 64.00 | Sep 2011 - |
| U.D. (PI); Matta, | | of Riverine Inputs from the Mandovi-Zuari System along | | | Sep 2016 |
| V.M.(Co-PI) | | the West Coast of India | | | |
| Janarthanam, | Botany | All India Coordinated Project on Sacred Grove Ecosystem | MoEF | 36.41 | Mar 2012 - |
| M.K. | | Service Assessment: Ecosystem Service Assessment in | | | Mar 2017 |
| | | Sacred Groves of Goa | | | |
| Janarthanam, | Botany | Preventing Extinction and Improving Conservation Status | DBT | 35.71 | Mar 2012 - |
| M.K.; Krishnan, | | of Threatened Plants Through Application of | | | Mar 2017 |
| S. | | Biotechnological Tools | | | |
| Nadkarni, V.S. | Chemistry | Development of Novel Polymeric Detectors for Selective | AERB | 25.19 | Oct 2013 - |
| | | Dosimetric Analysis | | | Oct 2016 |

| Santosh, G. | Chemistry | Self Assembly of Amphiphilic Donor Acceptor Dyads in to | DST | 35.00 | Aug 2013 - |
|-------------------|-----------------|---|--------------|--------|------------|
| | | Nanostructures for Applications in Optoelectronics | | | Sep 2018 |
| Pawar, J.D. (PI); | Computer | Indian Language Corpora Initiative (ILCI) – Phase 2 carried | Department | 45.43 | Mar 2012 – |
| Karmali, R.N. | Science & | out in consortium mode for seventeen Languages by | of | | Oct 2016 |
| (Co-PI) | Technology | sixteen institutes. Work for Konkani carried out at Goa | electronics | | |
| | | University. | and | | |
| | | | information | | |
| | | | technology | | |
| | | | (DeitY), Gol | | |
| Karmali, R.N. | Computer | Shallow Parser Tools for Indian Languages (SPT-IL). Carried | Department | 36.00 | Jun 2012 – |
| (PI); Pawar, J.D. | Science & | out in Consortium mode for twelve languages by ten | of | | Dec 2016 |
| (Co-PI), Wagh, | Technology | institutes. Work for Konkani carried out at Goa University. | electronics | | |
| R.S. (Co-PI), | | , | and | | |
| Desai, S.N. (Co- | | | information | | |
| PI) | | | technology | | |
| , | | | (DeitY), Gol | | |
| Mahender, K. | Earth Science | Dolomitization and Geochemical Nature of Proterozoic | UGC | 12.50 | Mar 2013 - |
| Wallerider, K. | Eur til Science | Carbonate Rocks of Kaladgi Basin: Implications of the | ode | 12.50 | Mar 2016 |
| | | Origin and Depositional Environments | | | 14101 2010 |
| Menon, H.B. | Marine | Aerosol Radiative Forcing over India | VSSC, ISRO, | 50.00 | Apr 2012 - |
| Wielloll, H.B. | Sciences | Acrosor Radiative Forcing over midia | Trivandrum | 30.00 | Mar 2017 |
| Menon, H.B. | Marine | Optical Characterization of Case II: Waters and Retrieval | INCOIS, | 61.23 | Apr 2013 - |
| Wielloll, H.B. | Sciences | of Colour Components from an Optical Sensor | MoES (GoI) | 01.23 | Mar 2017 |
| Manan II D | | · | The Noble | 96.65 | |
| Menon, H.B. | Marine | Establishing a Network Station at Goa University for | | 86.65 | Apr 2013 - |
| | Sciences | Atmospheric Boundary Layer Measurements | Project of | | Mar 2017 |
| | | | ISRO-GBP- | | |
| | | | SPL, VSSC, | | |
| | | | ISRO, (GoI) | 6.00 | |
| Nayak, G.N. | Marine | Estimation of Beryllium from the Polar Regions and Lake | IUAC-UGC | 6.03 | Jan 2014 - |
| | Sciences | Sediments: Paleo-Oceanographic Implications | | | Jan 2017 |
| Nayak, G.N. | Marine | High Resolution Paleoclimatic Studies from the Bay of | MoES, (GoI) | 12.78 | Mar 2012 - |
| | Sciences | Bengal | | | Mar 2015 |
| Rivonker, C.U. | Marine | Harmful Algal Bloom Monitoring (Mangalore to Goa) | CMLRE, | 57.00 | Oct 2012 - |
| | Sciences | | MoES (GoI) | | Oct 2017 |
| Rivonker, C.U. | Marine | Ballast Water Control and Management | CSIR-NIO, | 106.00 | Sep 2011 - |
| | Sciences | | Goa | | Sep 2016 |
| Pai, R.V. | Physics | Random-Phase- Approximation Excitation Spectra for | CSIR | 12.42 | Apr 2014 - |
| | | Bose-Hubbard Models | | | Mar 2017 |
| Priolkar, K.R. | Physics | Effect of Structural Disorder on Martensituc | DST | 59.02 | Apr 2015 - |
| | | Transformation in Shape Memory Alloys | | | Mar 2018 |

Sanctioned projects (2015-16)

| PI | Dept | Title | Funding | Sanctioned | Duration |
|-----------------|---------------|---|-------------|------------|------------|
| | | | Agency | amount | |
| | | | | (Rs. In | |
| | | | | lakhs) | |
| Kerkar, S. | Biotechnology | Development of Alternative Sustainable Fish Feeds to | Newton | 342.94 | |
| | | Promote Human Health using Novel Non-conventional | Fund Global | | |
| | | Indigenous Ingredients | Research | | |
| | | | Partnership | | |
| | | | in | | |
| | | | Aquaculture | | |
| Rodrigues, B.F. | Botany | Bio-Physical Characterization and Site Suitability Analysis | ISRO, | 20.00 | |
| | | for Indian Mangroves (PRACRITI Phase-II Programme) | Ahmedabad | | |
| Sharma, P.K. | Botany | Biodiversity, Eco-physiology and Biotechnology UGC-SAP | UGC-SAP | 118.00 | Apr 2015 – |
| | | (DRS III) | | | Mar 2020 |

| Majik, M.S. | Chemistry | Development of Nucleosides and Marine Natural Products-Based Therapeutics and Their Synthetic Studies | DST | 24.00 | |
|---|-------------------------------------|---|-------------------------------------|--------|------------------------|
| Majik, M.S. | Chemistry | Development of Analytical Methods and their Application in Biomolecular and Environmental Research | UGC | 6.00 | |
| Morajkar, P.P. | Chemistry | Effect of Reservoir Rock Composition on Oxidation of Hydrocarbons | DST | 48.40 | Mar 2016 – Mar 2019 |
| Morajkar, P.P. | Chemistry | Synthesis Characterization and Photocatalytic Application of Nanocomposites | UGC | 6.00 | Mar 2015 – Mar 2018 |
| Singh, P.R. | Chemistry | Electrochemical Studies of Polycrystalline Gold and Platinum Electrodes in Surfactant and Ionic Liquid Media and its use for Study of some well known Redox Systems | UGC | 6.00 | |
| Singh, P.R. | Chemistry | Electrochemical Preparation of Polyaniline-carbon Nanoparticles (PANI-CNPs) and Polyaniline-carbon Nanoparticles with Pt Nanoparticles (PAN-CNPs-Pt)Fuel Cell Applications | SERB | 27.00 | |
| Srinivasan, B.R. | Chemistry | Hydrothermal Synthesis, Characterization and Properties of New S-block Metal-Organic Frameworks | UGC | 9.92 | |
| Kamat, V.V. | Computer Science & Technology | CAD-ELearn | Govt. of Goa | 10.00 | |
| Mahender, K. | Earth Science | Mineral Resources Conservation – GIS Data Base | UGC-SAP DRS-III level program | 74.00 | Apr 2013 – Mar 2018 |
| Viegas, A.A. | Earth Science | Mining and Minerals of Goa | | | |
| Viswanath, T.A. | Earth Science | Igneous and Metamorphic Petrology | | | |
| Chachadi, A.G. | Earth Science | Groundwater Resources | | | |
| Gad, R.S. (PI); Naik, G.M., Parab, J.S. (Co- PI) | Electronics | Development of Coconut Plucking Robot | ICAR | 25.22 | |
| Gad, R.S. | Electronics | Vishveshvaraya PhD Scheme in area of ESDM for two full-time candidates | DeitY | 47.18 | |
| Gad, R.S. (Nodal Officer) | Electronics | Vishveshvaraya PhD Scheme in area of ESDM & ITES for five full-time candidates | DeitY | 199.00 | |
| Naik, G.M. | Electronics | Visweswarayya Research grant for Electronics &IT | DeitY | 33.00 | Mar 2016 – Feb 2019 |
| Parab, J.S. | Electronics | Visweswarayya Research grant for Electronics & IT | DeitY | 33.00 | Mar 2016 – Feb 2019 |
| Hegde-Desai, P.G. (PI); Borde, N. (Co-PI) | Management Studies | Financing of Micro, Small and Medium Enterprises (MSMEs) in Goa (With reference to specified sectors) | UGC | 6.37 | |
| Naik, M.M. | Microbiology | Studies on Involvement of Quorum Sensing Molecules in Development of Biofilm and Expression of Virulence Genes in Listeria monocytogenes and Staphylococcus aureus Isolated from Dairy Industry | SERB-DST | 11.50 | Dec 2015 – Nov 2017 |
| D'Costa, P.M. | Microbiology | Fate of Diatoms During Microbially-mediated Decomposition Processes | SERB-DST | 6.50 | Aug 2014 – Aug 2017 |
| Haldar, S. | Microbiology | Application of Metagenomic Technique for Isolation of Microbes from Mangroves for Potential use in Biofertilization and Bioremediation | SERB-DST N-PDF | 2.00 | |
| Desa, J.A.E. | Physics | Temperature Dependent Studies of Some Glass Structures and Structures of Some Superparamagnetic Glasses | UGC-DAE | 1.25 | Jan 2015 – Dec 2017 |
| | | | | | |

| Raut-Desai, R. (PI); Desa, J.A.E. (Co-PI) | Physics | Mesoscopic Structural Investigation on Magnetic Porous Materials by SANS | UGC-DAE | 1.35 | Jan 2016 – Dec 2018 |
|---|---------|---|---------|--------|------------------------|
| Roy, R. | Zoology | Indo-UK Global Partnership Project on Aquaculture | DBT | 101.00 | Apr 2016 – Mar 2019 |

Proposed projects (2015-16)

| PI | Dept | Title | Funding Agency | Proposed amount (In lakhs) |
|--------------------|-----------------------|--|---|----------------------------------|
| Tilve, S.G. | Chemistry | Vishveshwaraya Ph.D. scheme in ESDM and IT/ITES | EIT, New Delhi | |
| Krishnan, S. | Chemistry | Dye yielding plants of Goa and their potential use in biological and textile staining | DSTE, Goa | 10.82 |
| Rodrigues, B.F. | Botany | Screening for efficient microbial consertium for yield improvement in vigna unauiculate (L) walp | DSTE, Goa | 11.15 |
| Tilve, S.G. | Chemistry | Synthesis of mesoporous Ti02, and doped Tioz nanomatarials and their catalytic applications | DSTE, Goa | 12.90 |
| Nirmala, R. | Management Studies | Perceived role of women leaders in improving organisation performance | ICSSR, New Delhi | 8.66 |
| Sudhir, C. | Physics | Study fabrication and characterization of bybrid photonic plasmonic cavities and their applications to refractive index sensing | DST, New Delhi | 50.53 |
| Pahari, B. | Physics | Study of the structural defects and ion conduction mechanistic features in oxide-ion and proton conducting electrolyte materials | DST, New Delhi | 50.79 |
| Deshpande, K. | Chemistry | Assessment and removal of some toxic metal ions from drinking water in the cicinity of mining area of Goa. | UGC | 50.63 |
| Tilve, S.G. | Chemistry | Diastereo and enantioselective synthesis of alkoloids containing phrrolidine and piperidine motif | CSIR | 24.86 |
| Tilve, S.G. | Chemistry | Molecular iodine as a green catalyst for the synthesis of bioactive heterocycles | DSTE, Goa | 12.24 |
| D'Souza, S. | Womens Studies | Holistic heath readitional practicies of tribal women in cancona taluka - Goa. | NCW, New Delhi | 18.00 |
| Kerkar, S. | Biotech | Bioremediation of heavy metals using biosurfactant produced by halotolerant bacteria conjugated with nanioiron. | DBT, New Delhi | 107.86 |
| Rodrigues, B.F. | Botany | Diversity taxonomy and conservation of Arbuscular mycorrbizal (AM) fungi from western ahaths areas of Goa. | rbizal (AM) fungi from western ahaths areas | |

| PankajSingh | Chemistry | Electrochemical preaparation of polyanilinecarbon nanoparticles and composite thin films on carbon nanoparticles and composite thin films on highly oriented pyrolytic graphite in presence of in situ generated CNPs from HOPG substrate itself and on gold electrode surface respectively by polymerization of aniline in an ionic liquid media and its use for catalytic electrochemical oxidation of anodic fuels such as methanol and ethanol for fuel cell applications. | SERB, New Delhi | 26.88 |
|---------------------|-----------------|--|------------------|---------|
| Tilve, S.G. | Chemistry | Intramolecular dehydrogenative coupling (IMDC) reaction for the synthesis of heterocyclic scaffolds. | DSTE, Goa | 1172.25 |
| Salker, A.V. | Chemistry | Nano size active materials for catalytic detoxification and sensing toxic gases. | RUSA | 59.00 |
| Srinivasan, B.R. | Chemistry | Hydrothermal synthesis characterization and properties of new s-block metal-organic frameworks. | UGC | 6.25 |
| Roy, R. | Physics | Nutrigenomics values of edible bivalves in cimbating the inflammatro diseases in Mice, MUS, Muscylus. | DST | 59.18 |
| Krishnan, S. | Chemistry | Biodiversity documentation grain quality evaluation histochemical and biochemical profiling DNA borcoding and gene haploype anaylsis of scented rice varieties of western and north eastern India. | DBT, New Delhi | 154.39 |
| Dhuri, S.N. | Chemistry | Synthesis characterisation and biomimmetic oxidation reactions by non -heme high valent metal-oxygen species. | UGC | 37.40 |
| Majik, M. | Chemistry | Development of nucleosides and marine natural products - based therapeutics and their synthesis studies. | SERB - DST | 25.28 |
| Gad, R.S. | Electronics | Development of coconut plucking robot (cocorobot) | ICAR, New Delhi | 68.68 |
| Rivonker, C.U. | Marine Sciences | Implecations of Marine biotocins of public health and seafood safety: strategic Expertise network for monitoring. | DST, New Delhi 9 | |
| Sudhir, C. | Physics | Optical manipulation and trapping single gold shell encapsulatcal semiconductor quantum dots and applications towards biomaging. | DST, New Delhi 5 | |
| Pahari, B. | Physics | Solid-state NMR and computational study to probe the structureal defects and ion conduction machgnistic features in anti-perovskite based elecrolyte materials. | DST, New Delhi | 30.50 |

3.3 Details regarding minor projects

| | Completed | Ongoing | Sanctioned | Submitted |
|---------------------|-----------|---------|------------|-----------|
| Number | 0 | 0 | 0 | 0 |
| Outlay in Rs. Lakhs | | | | |

3.4 Details on research publications

| | International | National | Total |
|--------------------------|------------------------------|-------------------------------------|-------|
| Peer Review Journals | No criteria to dist | No criteria to distinguish between | |
| | International and | International and national Journals | |
| Non-Peer Review Journals | 0 | 0 | 0 |
| e-Journals | Part of Peer-review journals | | |
| Conference proceedings | 22 | 16 | 38 |

3.5 Details on Impact factor of publications:

| Range | 0.294 to 12.113 |
|----------------|-----------------|
| Average | 2.03 |
| h-index | 9* |
| Nos. in SCOPUS | 141 |

^{*}As in Web of Science for the years 2015-16 (searched on 6 Dec 2016)

3.6 Research funds sanctioned and received from various funding agencies, industry and other organisations

| | Name of Faculty | Name of the | Title of the Project | Sanctioned order no. | Sanctioned | Amount | Budget |
|---|---------------------|-------------|----------------------------------|--------------------------------|-------------|--------------|--------|
| | (Principal | Funding | | | date | Received (In | head |
| | Investigator) | agency | | | | Rupees) | |
| | Capacity building | ı | | | | | |
| 1 | DeSouza, S. | Ministry of | Sanghamitra: Goa | 11/91/2013-NMEW | 30/03/2015 | 740782.00 | A- |
| | | Women & | State Coalition for | | | | 57(1) |
| | | Child | Reproductive and | | | | |
| | | Development | Social Health of | | | | |
| | | | Adolescents | | | | |
| | | | | Total Rupees Capacity Building | • | 740782 | |
| | Interdisciplinary | | | | | | |
| 1 | Karmali, R.; Pawar, | DeitY | Development of | CALTS/SPT-IL/2015 | 08/11/2015 | 1096000.00 | A- |
| | J.D. | | Shallow Parser | | | | 45(4) |
| | | | Tools for 12 Indian | | | | |
| | | | Languages (SPT-IL) | | | | |
| 2 | Pawar, J.D.; | DeitY | Indian Language | | | 1322942.00 | A- |
| | Karmali, R. | | Corpora Initiatives | | | | 45(5) |
| | | | (ILCI) - Phase II | | | | |
| | | | Konkani Project | | | | |
| 3 | Rivonker, C.U. | NIO, Dona | Ballast Water | NIO/MCMRD/BAMBI/GU/2011 | 11 Jul 2011 | 1105705.00 | A- |
| | | Paula | Management | | | | 46(1) |
| | | | Programme, India | | | | |
| | | | (BAMPI) | | | | |
| | | | | Total Rupees Interdisciplinary | • | 3524647.00 | |
| | Students research | <u> </u> | | | | | |
| 1 | | CSIR | CSIR Junior/Senior Fellowship | | | 2644400.00 | A-1(1) |
| 2 | Meena, S.N. | DBT | DBT Fellowship | DBT/JRF/15/FIN/122 & | 19-06-2015 | 726255.00 | Α- |
| | · | | · | BCIL/HRD/DBT-JRF/2015-16 | & 11-12-15 | | 17(13) |

| 3 | Gad, R.S. | DeitY | Visvesvaraya PhD. Scheme for Dept. of Electronics | NO.PHD-MLA/04(57)2015-16 | 08/05/2015 | 812500.00 | A- 45(7) |
|----|----------------------|-------|---|---|----------------------------|----------------|--------------|
| 4 | Minaxi (Microbiol) | DST | Study the Biological | DST/KIRAN/SORF- PM/025/2015/01/C | 31-11-2015 | 191870.00 | A- 3(83) |
| 5 | | DST | DST INSPIRE Fellowship under AORC (Ph.D) | | | 2975158.00 | A- 3(73) |
| 6 | | UGC | UGC Research Fellowship for maritorious students in University | NO.F.7-69/2007(BSR) | 02/04/2016 | 1794103.00 | D- 16(2) |
| 7 | | UGC | UGC-JRF/SRF in Science, Humanities and Social Science | NO.F.17-72/2008/(SA-I) & NO.F.17-72/2008/(SA-I) | 278/2015 & 3/11/2015 | 912839.00 | D- 16(10) |
| 8 | Jagtap, Shweta, D. | UGC | UGC-Post Doctoral Fellowship | NO.F.13-657/2012(BSR) | 23/06/2015 | 96360.00 | D- 16(11) |
| 9 | Srinivasan, B.R. | UGC | UGC BSR Research Fellowship, Dept. of Chemistry | NO.F.7-69/2007(BSR) | 02/04/2016 | 2616243.00 | D- 16(13) |
| 10 | Pai, R.V. | UGC | BSR Research Fellowship, Dept. of Physics | NO.F.7-66/2007(BSR) | 25/06/2015 | 817200.00 | D- 16(14) |
| | | | | Total Rupees Student Research | | 1,35,86,928.00 | |
| | Major research | | | | | | |
| 1 | Nadkarni, V.S. | AERB | Development of novel polymeric detectors for selective dosimetric analysis | ITSD/CSRP/PROJ 54/06/14 | 28/11/2014 | 812576.00 | A44(3) |
| 2 | Krishnan, S. | CSIR | Large Scale Screening for High Garcinol and Hydroxycitric acid, In Vitro Culture and Molecular Characterization of Garcinia Species from the Western Ghats of India | 38(1348)/12/EMR-II | 16 Oct 2012 | 436327.00 | A- 1(32) |
| 3 | Shyama, S.K. | DAE | Evaluation of the Genotoxic Effect of Ionizing Radiation in Somatic Germinal Cells of Fishes | 2009/36/5-BRNS/20175 | 29/07/2015 | 348950.00 | A- 13(8) |
| 4 | Janarthanam, M.K. | DBT | Preventing Extinction and Improving Conservation Status of Threatened Plants Through Application of Biotechnological Tools | BT/Env/BC/01/2010 | 17/07/2015 | 1184000.00 | A- 17(14) |

| 5 | Roy, R. | DBT/ Newton Fund Global Research Partnership in Aquaculture | Indo-UK Global Partnership Project on Aquaculture | BT/IN/IN00-UK/BBSRC- Aqua/35/RC/2015-16 | 28/03/2016 | 4850000.00 | A- 17(17) |
|----|------------------|--|---|--|------------|-------------|--------------|
| 6 | Fernandes, J.B. | DST | Synthesis Characterisation | SR/NM/NS-86/2009 | 12/05/2015 | 221740.00 | A- 3(71) |
| 7 | Majik, M.S. | DST | Development of Nucleosides and Marine Natural Products-Based Therapeutics and Their Synthetic Studies | YSS/2014/000776 | 12/02/2016 | 1116000.00 | A- 3(85) |
| 8 | Jathavedan, Anju | DST | Analysis of persistent organic polutants (POPs) in water and sediments of mandovi and zuari rivers in Goa and the assessment of bioaccumulation of POPs | NASI/SORF-I/2015-16/11 | 20/01/2016 | 338800.00 | A- 3(86) |
| 9 | Naik, M.M. | DST | Studies on Involvement of Quorum Sensing Molecules in Development of Biofilm and Expression of Virulence Genes in Listeria monocytogenes and Staphylococcus aureus Isolated from Dairy Industry | YES/2014/000258 | 09/02/2016 | 600000.00 | A- 3(88) |
| 10 | Morajkar, P.P. | DST | Effect of Reservoir Rock Composition on Oxidation of Hydrocarbons | ECR/2015/00047 | 14/01/2016 | 3613333.00 | A- 3(89) |
| 11 | | DST-FIST | Assistance for FIST Programme Dept. of Marine Science | NO.SR/FST/LSI-571/2013[C] | 25/05/2015 | 8900000.00 | A- 3(81) |
| 12 | Pai, R.V. | DST-FIST | DST FIST Dept. of Physics | NO.SR/FST/PSI-190/2014[C] | 17/06/2015 | 7100000.00 | A- 3(82) |
| 13 | Srinivasan, B.R. | DST-FIST | DST-FIST Progarmme Dept. of Chemistry | NO.SR/FST/CS II-034/2014 [C] | 20/03/2016 | 18000000.00 | A- 3(90) |
| 14 | Santosh, G. | DST | INSPIRE Faculty Award | DST/INSPIRE FACULTY AWARD/2012/CH/71 | 28/01/2016 | 1293907.00 | A- 3(79) |
| 15 | Kerkar, Savita | DSTE, Goa | Impact of tourism on estuarine water quality and effect on mangrove & | 8-210-2014/STE/DIR/Acct/151 | 08/05/2015 | 566800.00 | B-20 |

| | | | saltpan ecosystem | | | | |
|----|------------------------------------|--------|--------------------------------------|----------------------------|------------|------------|-------------|
| 16 | Gad, R.S. (PI); | ICAR | of Goa Development of | Aggri.Engg.27(12)/2015-AE | 20/01/2016 | 914000.00 | A-64 |
| 10 | Naik, G.M., Parab, J.S. (Co-PI) | ICAN | Coconut Plucking Robot | Aggin.Liigg.27(12)/2013-AL | 20/01/2010 | 314000.00 | A-04 |
| 17 | Shringare, A. | ICSSR | Panchayat Raj | 02/77/2014-15/RPR | 23/04/2015 | 200000.00 | A- |
| | G , | | Institutions and | | ' ' | | 49(4) |
| | | | Rural Development | | | | |
| | | | in Goa | | | | |
| 18 | Priolkar, K.R. | IFCPAR | | | | 108000.00 | C-36 |
| 19 | Menon, H.B. | INCOIS | Optical | INCOIS:F&A XIII:D:019 | 31/03/2015 | 1241939.00 | A- |
| | | | Characterization of | | | | 2(31) |
| | | | Case II: Waters and | | | | |
| | | | Retrieval of Colour | | | | |
| | | | Components from an Optical Sensor | | | | |
| 20 | Menon, H.B. | ISRO | Aerosol | SPL:GBP:ARFI:09 | 15/09/2014 | 1000000.00 | A- |
| | , | | Characterization | | ', ', ' | | 38(6) |
| | | | Along the West | | | | |
| | | | Coast of India | | | | |
| 21 | Menon, H.B. | ISRO | Establishing a | SPL/NOBLE/GU/FT/14 | 07/10/2014 | 1500000.00 | Α- |
| | | | network station at | | | | 38(7) |
| | | | Goa University for atmospheric | | | | |
| | | | boundary layer | | | | |
| | | | measurements | | | | |
| | | | under the noble | | | | |
| | | | project of ISRO- | | | | |
| | | | GBP-SPL, VSSC, | | | | |
| | | | ISRO | | 20/20/20/2 | | |
| 22 | Rodrigues, B.F. | ISRO | Bio-Physical Characterization | EPSA | 09/06/2015 | 500000.00 | A- 38(8) |
| | | | and Site Suitability | | | | 30(0) |
| | | | Analysis for Indian | | | | |
| | | | Mangroves | | | | |
| | | | (PRACRITI Phase-II | | | | |
| | | | Programme) | | | | |
| 23 | Nayak, G.N. | MES | High Resolution | MOES/36/00IS/SIBER/07 | 31/03/2016 | 200000.00 | A- |
| | | | Paleoclimatic Studies from the | | | | 2(27) |
| | | | Bay of Bengal | | | | |
| 24 | Mukhopadhyay, P. | MoEF | Linking Coastal | 21/RCO/IHR/IST/Ecosystem | 10/06/2014 | 788000.00 | A- |
| | | | Zone Management | Services/2013-14-692 | | | 7(14) |
| | | | to Ecosystem | | | | |
| | | | Services in India | | | | |
| 25 | Matta, V.M. | MOES | Atmospheric | MOES/36/00IS/SIBER/07 | 31/03/2016 | 591307.00 | A- |
| | | | Deposition and its Influence on | | | | 2(25) |
| | | | Nutrients in | | | | |
| | | | Coastal Waters of | | | | |
| | | | Goa: West Coast of | | | | |
| | | | India | | | | |
| 26 | Muraleedharan, | MOES | Biogeochemical | MOES/36/00IS/SIBER/07 | 31/03/2016 | 849174.00 | Α- |
| | U.D. | | Studies of the | | | | 2(26) |
| | | | Arabian Sea and the Effect of | | | | |
| | | | Riverine Inputs | | | | |
| | | • | | | | | |

| | | | Zuari System | | | | |
|----|--|--------|--|--------------------------|------------|-----------|-------------|
| | | | alongthe West | | | | |
| 27 | Shyama, S.K. | MoES | Coast of India Genotoxicity | MOES/11- | 11/08/2015 | 224481.00 | A- |
| 21 | Silyallia, S.N. | IVIUES | Studies on Field Populations of Commercially Important Fin | MRDF/1/38/P/10PC-III | 11/08/2013 | 224401.00 | 2(24) |
| | | | Fishes and Shellfishes of Central West Coast of India | | | | |
| 28 | D'Costa, P.M. | SERB | Fate of Diatoms During Microbially- | SB/YS/LS/319/2013 | 03/08/2015 | 250000.00 | A-61 |
| | | | mediated Decomposition Processes | | | | |
| 29 | Morajkar, P.P. | UGC | Synthesis Characterization and Photocatalytic Application of Nanocomposites | F.30-102/2015(BSR) | 30/03/2015 | 600000.00 | D- 81(1) |
| 30 | Singh, P.R. | UGC | Electrochemical Studies of Polycrystalline Gold and Platinum Electrodes in | F.30-102/2015(BSR) | 30/03/2015 | 600000.00 | D- 81(2) |
| | | | Surfactant and Ionic Liquid Media and its use for Study of some well known Redox | | | | |
| 31 | Majik, M.S. | UGC | Systems Development of Analytical Methods and their Application in Biomolecular and Environmental Research | F.30-102/2015(BSR) | 30/03/2015 | 600000.00 | D- 81(3) |
| 32 | Cherukulappurath, S. | UGC | UGC-Startup grant | F.4-5(117-FRP)/2014(BSR) | 31/03/2015 | 600000.00 | D- 82(1) |
| 33 | Pahari, B. | UGC | Structural investigations of transparent conducting oxide nanoparticles by advanced high-resolution NMR | F.4-5(117-FRP)/2014(BSR) | 31/03/2015 | 600000.00 | D- 82(2) |
| 34 | Tilve, S.G. | UGC | Green Chemistry approach for the Synthesis | 43-197/2014(SR) | 27/07/2015 | 506700.00 | D-85 |
| 35 | Hegde-Desai, P.G. (PI); Borde, N. (Co- PI) | UGC | Financing of Micro, Small and Medium Enterprises (MSMEs) in Goa (With reference to specified sectors) | F.5-241/2014(HRP) | 12/11/2015 | 378600.00 | D-87 |

| | T = 1 = 1. | 1 | | | | | |
|----|---------------------------------------|---------------|----------------------|---|-------------|-----------------|--------|
| 36 | Pai, R.V. | UGC | Quantum Phases | 43-520/2014(SR) | 16/10/2015 | 1078600.00 | D-88 |
| | | | of Spin-1 Bosonic | | | | |
| | | | Atoms in | | | | |
| | | | Bichromatic | | | | |
| | | | Superlattices | | | | |
| 37 | Singh, P.R. | UGC | Electrochemical | YSS/2014/000788 | 02/09/2015 | 1516933.00 | A- |
| | | | Studies of | | | | 3(84) |
| | | | Polycrystalline | | | | |
| | | | Gold and Platinum | | | | |
| | | | Electrodes in | | | | |
| | | | Surfactant and | | | | |
| | | | Ionic Liquid Media | | | | |
| | | | and its use for | | | | |
| | | | Study of Some | | | | |
| | | | Well Known Redox | | | | |
| | | | Systems | | | | |
| 38 | Gad, R.S. | UGC | Multimodal | 41-664/2012(SR) | 22/06/2015 | 185554.00 | D-73 |
| | , | | Biometric System | , , , | ' ' | | |
| | | | Design with | | | | |
| | | | Embedded | | | | |
| | | | Technologies | | | | |
| 39 | Nayak, G.N. | UGC | Estimation of | UAC XIII-7/UFR-55317/ | 21/07/2015 | 178757.00 | D-78 |
| | , , , | | Beryllium from the | , | , , , , , , | | |
| | | | Polar Regions and | | | | |
| | | | Lake Sediments: | | | | |
| | | | Paleo- | | | | |
| | | | Oceanographic | | | | |
| | | | Implications | | | | |
| 40 | Chachadi, A.G. | UGC-SAP | UGC SAP in the | NO.F.550/4/DRS/2013(SAP-I) | 10/01/2015 | 316927.00 | D- |
| | , | | Dept. of Geology | , | .,., | | 38(10) |
| | | | DRS II | | | | (-, |
| 41 | Rodrigues, B.F. | UGC-SAP | UGC SAP in the | NO.F.3-9/2015/DRS-III(SAP-II) | 31/08/2015 | 970000.00 | D- |
| | , , , , , , , , , , , , , , , , , , , | | Dept of Botany | , | - , , | | 38(11) |
| 42 | Srinivasan, B.R. | UGC-SAP | UGC SAP in the | NO.F.540/14/DRS- | 20/07/2015 | 1600000.00 | D- |
| | | | Dept of Chemistry | 1/2015(SAP-I) | | | 38(12) |
| 43 | Mukhopadhyay, P. | University of | Assess the impact | NA | 15.5.2015 | 376411.97 | C- |
| | | London | of the changes in | | 20.0.2020 | 37012137 | 16(45) |
| | | | the global financial | | | | (, |
| | | | and monetary | | | | |
| | | | system on | | | | |
| | | | developing | | | | |
| | | | countries with | | | | |
| | | | special reference | | | | |
| | | | to India | | | | |
| | | | | Total Rupees Major Research | <u> </u> | 6,78,57,816.97 | |
| | | | | 1 2 23. Napoes Major Nescaren | | 2,. 3,3.,010.37 | |

3.7 No. of books published

| i) With ISBN No. | 11 |
|------------------------------|----|
| ii) Chapters in Edited Books | 30 |
| iii) Without ISBN No. | 0 |

3.8 No. of University Departments receiving funds from

| UGC-SAP | 8 |
|---------|---|
|---------|---|

| CAS | 0 |
|------------------|---|
| DST-FIST | 8 |
| DPE | 0 |
| DBT Scheme/funds | 3 |

3.9 For colleges Autonomy CPE DBT Star Scheme

INSPIRE CE Any Other (specify)

3.10 Revenue generated through consultancy: Rs.188,000.00

| Name of faculty | lient Organization | Title of Consultancy of project | Amount received |
|--------------------|-------------------------------------|---------------------------------------|-----------------|
| (Chief Consultant) | | | (in Rupees) |
| | | | |
| Savita Kerkar | Eureka Forbes Ltd. Porvorim | Manufacture of water purifier | 24,000 |
| Pranab | International Centre for Integrated | The South Asian Network for | 60,000 |
| Mukhopadhyay | Mountain development. | Development & Environmental | |
| | Kathmandu | Economics | |
| Nilesh Borde | Mr. Rajesh Solanki, Proprietor, | Starting a new mineral water business | 1,04,000 |
| | New Venture | in Goa | |
| | | Total | 1,88,000 |

3.11 No. of conferences organized by the Institution

| Level | International | National | State | University |
|---------------------|--|---|---|--|
| Number | 8 | 11 | 4 | 5 |
| Sponsoring agencies | ACM India, Asian Mycological Association Centro de Lingua Portuguesa/Camoes, IBM Research, LP-Goa and Fundacao Oriente- Delegacao, India National Board for Higher Mathematics Scientific Academy for Service Technology, Xerox | 1. Centre for Internet and Society (CIS), Bangalore 2. Computer Society of India, Goa Chapter 3. Directorate of Official Language, Govt. of Goa 4. Indian Council for Social Science Research, New Delhi 5. Kendriya Hindi Nideshalay, Delhi 6. NBHM/DAE 7. National Center for Mathematics, IIT Bombay 8. Sahitya Akademi 9. Saraswat College, Mapusa 10. The Department of Electronics and Information Technology (Deity), Govt. Of India 11. World Konkani Centre, Mangalore | 1. BITS Pilani (Goa Campus) 2. Difficult Dialogues, Delhi 3. Goa State Museum 4. International Centre Goa | 1. Camões, I.P. 2. Central Library, Panaji, Goa 3. Centre for Internet and Society, Banglore, Karnataka 4. Goa State Museum 5. University of Porto |

3.12 No. of faculty served as experts, chairpersons or resource persons: 50

3.13 No. of collaborations International: 2 National: 9 Any other: 0

3.14 No. of linkages created during this year: 12

3.15 Total budget for research for current year in lakhs:

| From Funding agency | Rs.8,57,10,174.00 | |
|---------------------|-------------------|--|
| From Management of | Rs. 67,00,000.00 | |
| University | | |
| Total | Rs.9,24,10,174.00 | |

3.16 No. of patents received this year

| Type of Patent | Status | Number |
|----------------|---------|--------|
| National | Applied | 0 |
| | Granted | 0 |
| International | Applied | 0 |
| | Granted | 0 |
| Commercialized | Applied | 0 |
| | Granted | 0 |

3.17 No. of research awards/ recognitions received by faculty and research fellows of the institute in the year

| Ī | Total | International | National | State | University | District | College |
|---|-------|---------------|----------|-------|------------|----------|---------|
| | 9 | 2 | 6 | 0 | 1 | 0 | 0 |

3.18 No. of faculty from the Institution who are Ph.D. Guides and students registered under them Guides: 84 Students registered with them: 347

3.19 No. of Ph.D. awarded by faculty from the Institution: 38 (at the last convocation)

3.20 No. of Research scholars receiving the Fellowships (Newly enrolled + existing ones)

| JRF | 30 |
|--|----|
| SRF | 17 |
| Project Fellows | 0 |
| Any other | 8 |
| • INSPIRE (6) | |
| GU RES FELLLOWSHIP (1) | |
| • ICCR (1) | |

3.21 No. of students Participated in NSS events:

Revised Guidelines of IQAC and submission of AQAR

University level <u>NIL</u> State level <u>NIL</u>

National level <u>NIL</u> International level <u>NIL</u>

3.22 No. of students participated in NCC events:

University level NIL State level NIL

National level <u>NIL</u> International level <u>NIL</u>

3.23 No. of Awards won in NSS:

University level NIL State level NIL

National level <u>NIL</u> International level <u>NIL</u>

3.24 No. of Awards won in NCC:

University level <u>NIL</u> State level <u>NIL</u>

National level NIL International level NIL

3.25 No. of Extension activities organized

| University forum | 0 |
|---|---|
| College forum | 0 |
| NCC | 0 |
| NSS | 0 |
| Any other (Blood Donation & Children's Awareness) | 2 |

3.26 Major Activities during the year in the sphere of extension activities and Institutional Social Responsibility

- Public lectures by experts under Visiting Research Professors Programme (VRPP) in various areas of knowledge
- Choir and Orchestra
- Series of meetings with various stakeholders working with adolescents in Goa as a part of Goa State Convergence Project on Adolescent Health and Rights (Sanghmitra project)

Criterion - IV

4. Infrastructure and Learning Resources

4.1 Details of increase in infrastructure facilities:

| Facilities | Existing | Newly created | Source of | Total |
|------------|----------|---------------|-----------|-------|
| | | | Funding | |

| Campus area | 16,30,218/- | | Goa government | 16,30,218/- |
|------------------|--------------|------------|------------------|--------------|
| | Sq.m. | | | Sq.m. |
| Class rooms | 3477/- Sq.m. | | Goa University + | 3477/- Sq.m. |
| | | | Goa government | |
| Laboratories | 6542/- Sq.m. | | Goa University + | 6542/- Sq.m. |
| | | | UGC + Goa | |
| | | | government | |
| Seminar Halls | 8 nos. | | Goa University + | 8 nos. |
| | | | Goa government | |
| No. of important | | | | |
| equipments | | | | |
| purchased (≥ 10 | | | | |
| lakh) during the | | | | |
| current year | | | | |
| Value of the | | 387.01 (Rs | Goa University + | |
| equipment and | | Lakhs) | Goa government | |
| furniture | | | | |
| purchased | | | | |
| during the year | | | | |
| (Rs. in Lakhs) | | | | |

4.2 Computerization of administration and library

Centralised UMS is in early stages of testing. The library system is already fully computerised. Library added 18 computers and 1 server utilizing funds from Shodhsindhu

4.3 Library services:

| | Exis | ting | New | ly added | Tot | al |
|------------------|--------|---------|------|----------|--------|---------|
| | No. | Value | No. | Value | No. | Value |
| Text Books | 159101 | | 4274 | 1083839 | 163401 | |
| Reference Books | 35232 | | 25 | 260606 | 35257 | |
| e-Books | 214 | 1100000 | Nil | | 214 | |
| Journals | 305 | 7123199 | -39 | 0 | 266 | 7290577 |
| e-Journals | | | | | | |
| Digital Database | 1 | | Nil | | 1 | |
| CD & Video | 3373 | | 23 | | 3396 | |
| Others (specify) | | | | | | |

4.4 Technology up gradation (overall)

| | Total Computers | Computer Labs | Internet services | Student (laptops) | Computer Labs | Office | Depart- ments | Others (computer centre) |
|----------|--------------------|------------------|----------------------|----------------------|------------------|--------|------------------|--------------------------------|
| Existing | 1505 | 13 | 1GB and | 1000 | 13 | 100 | 305 | 1 |
| | | | 20Mbps | | | desk | desk; | |
| | | | | | | | 100 lap | |
| | | | | | | | | |
| Added | 861 | 11 | 00 | 500 | 11 | 37 | 321 | 0 |
| | | | | | | desk; | desk; (- | |
| | | | | | | 19 lap | 16) lap | |
| | | | | | | | | |
| Total | 2366 | 24 | 1GB and | 1500 | 24 | 156 | 710 | 1 |
| | | | 20Mbps | | | | | |
| | | | | | | | | |

4.5 Computer, Internet access, training to teachers and students and any other programme for technology upgradation (Networking, e-Governance etc.)

The Goa University internet facility is provided through a 1GBPS internet lease line from NKN and a redundant 20Mbps link through another service provider, which becomes active seamlessly on failure of the main link. The intranet is on 1Gbps Fibre backbone, with layer 3 switching at core and Layer 2 manageable switches at distribution. There are redundant links laid at appropriate places to avoid failure at single point. The security is maintained using a world class UTM system at the Gateway. There are wireless hotspots at appropriate places covering class rooms, corridors, hostels and guest houses, managed by a wireless controller.

4.6 Amount spent on maintenance in lakhs:

| i) ICT | - |
|--|---------|
| ii) Campus Infrastructure and facilities | 202.94 |
| iii) Equipments | 30.01 |
| iv) Others | 4530.00 |
| Total: | |
| | 4762.95 |

Criterion - V

5. Student Support and Progression

5.1 Contribution of IQAC in enhancing awareness about Student Support Services

Awareness is created through website and routine digital communication on the campus

5.2 Efforts made by the institution for tracking the progression

Goa University Alumni Association makes efforts in tracking progression of students who passed out from University

5.3 (a) Total Number of students

| UG (Integrated) | PG | Ph.D. | Others |
|-----------------|------|-------|--------|
| 90 | 1909 | 496 | 0 |

| | PG+ | PhD | Total |
|---------------------------------------|------------|-----|-------|
| | Integrated | | |
| (b) No. of students outside the state | 93 | 139 | 232 |
| (c) No. of international students | 15 | 2 | 17 |

| | Number | Percentage |
|-------|---|------------|
| Men | 54 (Integrated) + 613 (PG) + 215 (PhD) | 35.35 |
| Women | 36 (Integrated) + 1296 (PG) + 281 (PhD) | 64.65 |

| | General | SC | ST | OBC | Physically Challenged | Total |
|-----------|---------|----|-----|-----|--------------------------|-------|
| Last year | 1614 | 26 | 142 | 347 | 3 | 2132 |
| This year | 1814 | 42 | 175 | 462 | 2 | 2495 |

Demand ratio: 1.77:1.00 (975 Admitted; 751 Wait list)

Dropout%: 1-2% (approximately)

5.4 Details of student support mechanism for coaching for competitive examinations (If any)

- A Moodle page has been designed -for free online NET/SET coaching http://goalnet.unigoa.ac.in:8090/course/view.php?id=855
- Training students for UGC-NET in French

No. of students beneficiaries: 15

5.5 No. of students qualified in these examinations

| NET: <u>9</u> | SET/SLET: <u>0</u> | GATE: 2 | CAT: 0 |
|-----------------------|--------------------|----------------|-----------------|
| IAS/IPS etc: 0 | State PSC: 1 | UPSC: 5 | Other: 0 |

5.6 Details of student counselling and career guidance

Continuous counselling & Career guidance; Display of notices on notice board; Personal discussion on interview techniques; Sending details of job vacancies by email; A MOODLE page- MARGDARSHANhas been designed for Students

No. of students benefited: 15

5.7 Details of campus placement

| On campus | | Off campus | |
|-----------------------|--------------------|--------------------|--------------------|
| Number of | Number of Students | Number of Students | Number of Students |
| Organizations Visited | Participated | Placed | Placed |
| 29 | 128 | 80 | 51 |

5.8 Details of gender sensitization programmes

- Compiled Rights awareness and sensitization handout for GU students on the Sexual Harassment of Women at the Workplace (Prevention, Prohibition and Redressal) Act
- Workshop on Gender Sensitization and Perspective Building for school counselors and mental health volunteers from Keri, Valpoi, Mapusa, Siolim and Thane (17 May 2015)
- Making Equality a Reality (MEAR 2016): Inter-Collegiate and Inter-Departmental festival of Competitions (8 Mar 2016)

5.9 Students Activities:

5.9.1 No. of students participated in

| Level: | State/Univ | National | International |
|------------------|------------|----------|---------------|
| Sports and Games | 51 | 2 | 0 |
| cultural events | NA | NA | NA |

5.9.2 No. of medals /awards won by students in

| Level: | State/Univ | National | International |
|------------------|------------|----------|---------------|
| Sports and Games | 2 | 0 | 0 |
| cultural events | NA | NA | NA |

5.10 Scholarships and Financial Support

| | Number of | Amount (Rs. In |
|--------------------------------------|-----------|----------------|
| | students | Lakhs) |
| Financial support from institution | | 67 |
| Financial support from government | | |
| Financial support from other sources | | |
| Number of students who received | | |
| International/ National recognitions | | |

5.11 Student organised / initiatives

| Level | Fairs | Exhibitions |
|-------------------|-------|-------------|
| State/ University | 1 | |
| National | | |
| International | | |

- 5.12 No. of social initiatives undertaken by the students :
- 5.13 Major grievances of students (if any) redressed:

| - | | • | | | |
|-----|-----|-----|----|-----|----|
| Cri | ıte | ric | ın | _ \ | VI |

6. Governance, Leadership and Management

6.1 State the Vision and Mission of the institution

Vision: To meet the relevant and required tertiary level knowledge aspirations and associated employment needs of the State and to strive to attain global levels of excellence in teaching and research.

Mission: To effectively and efficiently impart fundamental, appropriate and socioeconomically relevant knowledge at the tertiary level of education to those seeking depth of understanding and employment-driven technical competence in their chosen areas of study.

- 6.2 Does the Institution has a Management Information System
 - After the series of deliberations with the MIS vendor the system is likely to be in place in 2017-18.
- 6.3 Quality improvement strategies adopted by the institution for each of the following:

6.3.1 Curriculum Development

Goa University follows a systematic multi-level process in the design, development and implementation of the Post-Graduate curriculum offered on the campus.

Level-1: Based on the curriculum model of UGC/ necessary inputs from other universities, feedback from alumni, parents and industry the individual Departmental Councils

propose/suggest structure(s) of the program(s), details of courses, infrastructural and allied requirements.

Level-2: The Board of Studies (BOS) comprising of external experts and members of the Faculty from the teaching department concerned and affiliated colleges, reviews the program and courses and makes suitable recommendations for the approval of the Academic Council of the University for implementation.

Level-3: Finally, the Programs recommended are discussed and deliberated upon by the Academic Council which approves the course content for implementation preferably from the subsequent academic year. The same is placed on the University website for reference.

Level-4: Further every existing program goes through a review/revision based on the feedback from academic audit committee, students and employers.

6.3.2 Teaching and Learning

 Smart classrooms, computer laboratories for the students attached to every department, scientific laboratories to the concerned departments, Internet facility add value to the teaching and learning process

6.3.3 Examination and Evaluation

- Internal Assessment of PG courses.
- Transparency: Students shown answer scripts after evaluation before the announcement of results.
- Grievance Committee addresses issues of disagreement.

6.3.4 Research and Development

- Research in the areas of current interest by the faculty and Ph.D. students contribute
 to the knowledge at large. The outcome of this activity in the form of research
 publications has been highlighted in the section 3.4 Details on research publications
- Sponsored and consultancy research work is also carried out at the University. The year 2015-16 in recent past showed highest receipts of funds as indicated in sections 3.2 and 3.6 of this report
- Research publications and information about the PhD students as well as Sponsored research projects are shared over web for benefit of all those interested

6.3.5 Library, ICT and physical infrastructure / instrumentation

- A modern library with computer terminals for the students, automated housekeeping including circulation, campus wide access to e-resources make the library as essential infrastructure for the students and research community
- The Computer Centre of the University maintains the website besides providing support services to the ICT infrastructure of the organization including high-speed, state-of-the-art Internet connections
- All the faculty blocks and other buildings are interconnected with roads

6.3.6 Human Resource Management

- The two sections of the Administration provide support in managing the human resources
- The faculty are encouraged to attend programmes that benefit their professional competence
- Orientation programmes for the staff at the rank of assistant registrar in the administration are organized every alternate year

6.3.7 Faculty and Staff recruitment

- The University follows UGC norms for recruitment to maintain quality
- The University maintains roster to honour reservation policy
- In the event of shortfall of qualified staff University recruits temporary/contractual staff

6.3.8 Industry Interaction / Collaboration

- Continued interactions with industry help in placements and internship for the University students. The departments such as Management studies, Computer Science and Technology benefit at large for the placements
- Scientist-Industry Interaction at Goa Chamber of Commerce and Industries (GCCI) was organized on 10 Oct 2015 as Public outreach event of Asian Mycological congress held at Goa University

6.3.9 Admission of Students

- Online process of admissions has become a practice since past few years, that has brought transparency in the system
- While some departments offer admissions based on entrance tests, some programmes (MBA, MCA, and M.Sc. in Marine Biotechnology) are based on National level entrance tests
- Over 700 students to some programmes together were in wait-list for admissions in the year 2015

6.4 Welfare schemes

| Teaching staff | Medical Health Centre on campus, LTC | | |
|---|---|--|--|
| Non-teaching staff | Festival advances, LTC, Computer advance, Medical Health Centre on Camp | | |
| | Consumer Credit Society, Cooperative Society | | |
| Students Earn while you learn, GU Merit Scholarships, Transport, Hostel, Medi | | | |
| | Centre on Campus | | |

- 6.5 Total corpus fund generated: Rs.2,56,000.00
- 6.6 Whether annual financial audit has been done: Yes / No
- 6.7 Whether Academic and Administrative Audit (AAA) has been done?

| Audit Type | External | | Inte | rnal |
|----------------|-----------------|--------------|--------|-----------------|
| | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | Academic | Yes | Boards of Study |
| | | Audit | | |
| | | Committee | | |
| Administrative | Yes (Financial) | Chartered | Yes | Finance |
| | | Accountants, | | Committee and |
| | | Auditors | | Executive |
| | | | | Council |

6.8 Does the University/ Autonomous College declares results within 30 days?

| For UG Programmes | Yes | No |
|-------------------|-----|----|
| For PG Programmes | Yes | No |

- 6.9 What efforts are made by the University/ Autonomous College for Examination Reforms?
 - The University has adopted a system of Continuous assessment consisting of Intrasemester and semester-end assessments with 100% internal assessment. There is complete transparency in the evaluation process. Students are shown answer papers before declaration of results.
 - The University's final degree certificates are issued with photo identity.
 - The proposed University Management System will smoothen the process of submission of marks electronically to speed up the declaration of final results.
- 6.10 What efforts are made by the University to promote autonomy in the affiliated/constituent colleges?

The Ordinances necessary for grant of autonomy have been framed for colleges. Chowgule College started functioning as an autonomous institution from the 2015-16.

6.11 Activities and support from the Alumni Association

News about job openings, alumni meet

6.12 Activities and support from the Parent–Teacher Association

- Parent-Teacher Association at the University does not exist
- Other associations that exist are: Goa University Teachers Association, Goa University, Non-Teaching Staff Association and Goa University Officer's Association that take matters pertaining to University upliftment and welfare
- 6.13 Development programmes for support staff

Short-term staff training

6.14 Initiatives taken by the institution to make the campus eco-friendly

- 5 KVA hybrid (wind and solar) power plant power entire USIC electrical appliances (tube lights and fans). In addition, the University campus has 83 solar lamps for street lighting
- Two major rainwater harvesting structures on the campus are recharging the depleted groundwater reservoirs to the tune of about 40 million liters per year (about two month's water consumption volume on the campus approx. 5 lakh liters/day)
- University has ensured conservation of pre-existing seasonal pools and ponds
 wherever possible to boost aquatic biodiversity. Instead of check dams, the University
 uses diversion canals and 'jalkunds' made from plastic sheets to store water

Criterion - VII

7. Innovations and Best Practices

7.1 Innovations introduced during this academic year which have created a positive impact on the functioning of the institution. Give details.

Placing of Time tables on the website helps I better coordination for the CBSCS programme.

7.2 Provide the Action Taken Report (ATR) based on the plan of action decided upon at the beginning of the year

| Sr. | Plan as stated in 2014-15 IQAC report | Action taken |
|-----|---|---|
| No. | | |
| | | |
| 1 | Completion of institutional repository of all | Purchase of in-House high speed scanner has |
| | journal/e-publications in digitised form. | been initiated with the formation of a |
| | | committee to evaluate models and recommend |
| | | the same. This would help in the digitization |
| | | efforts of the university |
| | | - |

| 2 | Conduct training and awareness workshops related to Accreditation for affiliated colleges. | |
|---|---|--|
| 3 | Conduct a training workshop for college administrators on implementation of CAS guidelines. | |
| 4 | Updating of PG-Masters and PhD ordinances. Introduction of CBCS at the UG level. | Updation of PG and PhD ordinances is ongoing. The CBCS at the UG level was deferred to 2017-18 AY to resolve some teething issues. There is high powered committee that is overseeing the process. |
| 5 | Implementation of initial modules of UMS | User workshop and training has started. The beta version in test stage. |
| 6 | Complete Online fees payment gateway for all students. | Completed for all new applicants. |
| 7 | Have a coordinated time table across the campus to facilitate the functioning of CBCS system. | Implemented. With the new AY, all departments place their Time Tables on their homepage. |

7.3 Give two Best Practices of the institution (please see the format in the NAAC Self-study Manuals)

- Complete online admission and payment of fees system and on-line submission of PBAS by faculty
- The Visiting Research Professors programme helps bring doyens to the state for students and interested residents of Goa to interact and learn from them at no fee basis

7.4 Contribution to environmental awareness / protection

Water harvesting and social forestry project in association with the Forest department

- 7.5 Whether environmental audit was conducted? Yes No
- 7.6 Any other relevant information the institution wishes to add. (for example SWOT Analysis)

NIL

8. Plans of institution for next year

Revised Guidelines of IQAC and submission of AQAR

- The revised IQAC Statute to be implemented to conform to the NAAC guidelines
- Up-gradation of website and formulation of IT Policy of Goa University
- Student election reform process to be initiated
- Mechanism for transition of PhD students to uploading of thesis on repository to be simplified
- PhD rules to be amended in order to comply with UGC's new notified regulations
- Explore campus planning with environmental safeguards through appropriate bodies
- Create infrastructure for document digitisation on campus

Pranab Mukhopadhyay Director, IQAC Varun Sahni Vice Chancellor and Chairperson, IQAC

ACADEMIC CALENDAR 2015-2016 The arrangement for Academic Terms for M.A./M.Sc./M.Com./M.B.A. (FS)/M.C.A/M.Tech/B.Lib/M.Lib for the for the academic year 2015-16 shall be as follows: (on the campus)

| Item | Duration | No. of Days | |
|------------------------------|--------------------------|-------------|--|
| Term - I | 08/06/2015 to 24/11/2015 | | |
| Teaching begins | 15/06/2015 | | |
| Teaching ends | 28/10/2015 | 90 days | |
| Ganesh Chaturthi Break | 21/09/2015 to 23/09/2015 | 03 days | |
| Preparatory Break | 29/10/2015 to 01/11/2015 | 04 days | |
| Diwali Break | 11/11/2015 to 13/11/2015 | 03 days | |
| SEA – Sem. I/III/V & Repeat | 02/11/2015 to 23/11/2015 | 11 days | |
| Exam & assessment | | | |
| Term – II | 25/11/2015 to 05/05/2016 | | |
| Teaching begins | 25/11/2015 | | |
| Teaching ends | 13/04/2016 | 90 days | |
| Christmas Break | 28/12/2015 to 01/01/2016 | 05 days | |
| Preparatory Break | 14/04/2016 to 17/04/2016 | 04 days | |
| SEA – Sem. II/IV/VI & Repeat | 18/04/2016 to 02/05/2016 | 11 days | |
| Exam & assessment | | | |
| Summer Vacation | 06/05/2016 to 05/06/2016 | 31 days | |
| Reopening | 06/06/2016 | | |

NOTE: All breaks except the preparatory breaks shall be treated as vacation for the teachers.