# Yearly Status Report - 2018-2019

| Part A | |
|--------|--|
| **Data of the Institution** | |
| **1. Name of the Institution** | **MANGALORE UNIVERSITY** |
| Name of the head of the Institution | **Prof. P. Subrahmanya Yadapadithaya** |
| Designation | **Vice Chancellor** |
| Does the Institution function from own campus | **Yes** |
| Phone no/Alternate Phone no. | **0824-2287347** |
| Mobile no. | **9663930777** |
| Registered Email | **vcmangaloreuniversity19@gmail.com** |
| Alternate Email | **registrarmangaloreuniversity@gmail.com** |
| Address | **Administrative Building Mangalagangothri** |
| City/Town | **Mangalore** |
| State/UT | **Karnataka** |
| Pincode | **574199** |

## 2. Institutional Status

| | |
|---|---|
| University | **State** |
| Type of Institution | **Co-education** |
| Location | **Rural** |
| Financial Status | **state** |
| Name of the IQAC co-ordinator/Director | **Prof. Kishori Nayak K** |
| Phone no/Alternate Phone no. | **08242284648** |
| Mobile no. | **9342035991** |
| Registered Email | **iqacmangaloreuniversity61@gmail.com** |
| Alternate Email | **kknayak2012@gmail.com** |

## 3. Website Address

| | |
|---|---|
| Web-link of the AQAR: (Previous Academic Year) | [https://mangaloreuniversity.ac.in/sites/default/files/2019/AQAR2017-18..pdf](https://mangaloreuniversity.ac.in/sites/default/files/2019/AQAR2017-18..pdf) |

## 4. Whether Academic Calendar prepared during the year

| | |
|---|---|
| **4. Whether Academic Calendar prepared during the year** | **Yes** |
| if yes,whether it is uploaded in the institutional website: Weblink : | [https://mangaloreuniversity.ac.in/academic-calender-year-0](https://mangaloreuniversity.ac.in/academic-calender-year-0) |

## 5. Accrediation Details

| Cycle | Grade | CGPA | Year of Accrediation | Validity | |
|---|---|---|---|---|---|
| | | | | Period From | Period To |
| **1** | **Four Star** | **70.3** | **2000** | **17-Apr-2000** | **16-Apr-2005** |
| **2** | **A** | **3.09** | **2014** | **05-May-2014** | **04-May-2019** |

## 6. Date of Establishment of IQAC

| | |
|---|---|
| **6. Date of Establishment of IQAC** | **23-Dec-2010** |

## 7. Internal Quality Assurance System

| Quality initiatives by IQAC during the year for promoting quality culture | | |
|---|---|---|
| Item /Title of the quality initiative by | Date & Duration | Number of participants/ beneficiaries |

| IQAC | | |
|---|---|---|
| Academic and Administrative Audit | 09-Oct-2018 3 | 25 |
| Constitution of the Committee for Open House Program | 15-Jun-2018 1 | 14 |
| Establishment of Environmental Audit Committee | 31-Oct-2018 1 | 18 |
| One day workshop on 'Objective Structured Clinical Examination / Objective Structured Practical Examination' | 15-Sep-2018 1 | 139 |
| Workshop on Preparation of Self Study Report | 18-Mar-2019 1 | 70 |
| Special Lecture on NAAC Accreditation for Non-teaching Staff, Guest Faculty | 08-May-2019 1 | 260 |
| [View File](#) | | |

**8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.**

| Institution/Department/Faculty | Scheme | Funding Agency | Year of award with duration | Amount |
|---|---|---|---|---|
| Biosciences | DST FIST | DST | 2015 1827 | 9500000 |
| Biosciences | UGC-SAP | UGC | 2016 1827 | 6000000 |
| Physics | DST-FIST | DST | 2018 1826 | 26400000 |
| Physics | UGC-SAP | UGC | 2012 1827 | 7000000 |
| Applied Zoology | UGC-SAP | UGC | 2015 1827 | 10550000 |
| Marine Geology | DST - FIST | DST | 2015 1827 | 10400000 |
| Division of Medical Physics, Physics | BRNS Coordinated Research Programme | DAE | 2014 1826 | 55390000 |
| Physical Education and Sports | Development of Sports infrastructure & Equipment in Universities | UGC | 2015 1096 | 24000000 |
| Kannada | UGC-SAP | UGC | 2016 1827 | 2900000 |

| A collaborative venture centered at Microtron Centre, Physics | CPEPA status to- Electron Beam Irradiation Effects on Polyscale Functional Materials Using Microtron facility | UGC | 2016 1827 | 50580000 |
| --- | --- | --- | --- | --- |
| [View File]() | | | | |

| | |
| --- | --- |
| **9. Whether composition of IQAC as per latest NAAC guidelines:** | **Yes** |
| Upload latest notification of formation of IQAC | [View File]() |
| **10. Number of IQAC meetings held during the year :** | **9** |
| The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website | **Yes** |
| Upload the minutes of meeting and action taken report | [View File]() |
| **11. Whether IQAC received funding from any of the funding agency to support its activities during the year?** | **No** |

**12. Significant contributions made by IQAC during the current year(maximum five bullets)**

- **Preparation and Submission of AQAR**

- **Applications were submitted to various ranking agencies such as KSURF, NIRF, India Today, Greenmetrics, QS BRICS and India.**

- **Collection of Stakeholders Feedback**

- **Preparation to apply for the next cycle of Accreditation**

- **Internal quality promotion**

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**13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year**

| Plan of Action | Achivements/Outcomes |
|---|---|
| NAAC Steering Committee and Working Committees to apply 3rd Cycle of Accreditation | Committees were Constituted |
| Feedback from Alumni | Successfully collected |
| Online Feedback from Students | Successfully completed collection and analysis. |
| Online Feedback from Faculty | Successfully collected and analysed |
| [View File](#) ||

| **14. Whether AQAR was placed before statutory body ?** | Yes |
|---|---|

| Name of Statutory Body | Meeting Date |
|---|---|
| Syndicate | 09-Oct-2020 |

| **15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?** | No |
|---|---|

| **16. Whether institutional data submitted to AISHE:** | Yes |
|---|---|

| Year of Submission | 2019 |
|---|---|

| Date of Submission | 28-Feb-2019 |
|---|---|

| **17. Does the Institution have Management Information System ?** | Yes |
|---|---|

| If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words) | E governance has been implemented in the admission approval process with more secured features using INFINITY software. After admission formalities are completed by the colleges/departments, the system automatically queues the applications for approval. Every approval is funneled through a series of workflow activities which are configured in the system which include, but are not limited to, verification of furnished details, validating the eligibility criteria, scrutiny of supporting documents, status setting, final review, approval and digitalization of the admission form. Upon successful completion of admission application approval process, the software will automatically assign register numbers |
|---|---|

in a prescribed format. A highly customizable register number generation engine makes the whole process automatic, transparent and free from any manual errors. Once register numbers are allocated, students will be attached to the courses they are enrolled for. The Examination management module involves three stakeholders the university, colleges and students. The preexamination module encompasses all activities from announcing examination schedules to production of electronic hall ticket. Once the examination timetable is published, colleges can enroll the students who wish to appear for the examination through the module. The INFINITY system will automatically present the colleges with all eligible students and the subjects (both regular and repeat), which those students are eligible to take, based on their course and semester of study. It automatically picks and presents the eligible students collegewise for registration. Colleges will then be able to register individual students for examination and mention the papers s/he is going to take. Once the correct papers are selected the system will automatically calculate the amount payable by the student as per the published fees structure, enabling complete transparency. Once the examination registration process is completed, the university can publish the hall tickets for all eligible candidates, which will be available online with an electronic signature for the colleges to download and distribute to students. As compared to the earlier manual process, time taken is reduced by 80 percent. Examination centre allocation and staff management module takes care of automatic assignment of examination centres for each college from a predefined set. This also helps in management of allotment of staff, invigilators and auditors to Centres. Centrewise student lists are generated from the Student Registration data for verification and to make necessary arrangements for examinations. In addition during 2018 19, the university has undertaken the digitization of old student records pertaining to the examination section, to enable

verification of documents. The examination process is made more transparent through online submission of internal assessment as also practical examination marks. The university departments and colleges are able to register the internal marks for each paper directly through the online system which is synchronized with the examination registration details. This eliminates any discrepancy in internal marks data. Since the internal marks registration is a part of the overall system, any delay or errors in announcement of results is avoided. The provision for entry of evaluation marks by the evaluator has been made to speed up and enhance accuracy in results.

## Part B

## CRITERION I – CURRICULAR ASPECTS

### 1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

| Name of Programme | Programme Code | Programme Specialization | Date of Revision |
|---|---|---|---|
| MA | KN | Kannada | 21/07/2018 |
| MSc | EL | Electronics | 11/10/2018 |
| MSc | ES | Environmental Science | 07/06/2018 |
| MSc | MT | Mathematics | 10/10/2018 |
| MSc | ZO | Zoology | 27/07/2018 |
| PG Diploma | DYS | Yogic Science | 26/09/2018 |
| MEd | ME | Master of Education | 13/08/2018 |
| MBA | TM | TTM (Tourism and Travel Management) | 07/06/2018 |
| PhD or DPhil | YSEPHD | Yogic Science | 26/09/2018 |
| MCom | CM | Master of Commerce | 18/01/2018 |
| No file uploaded. | | | |

1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

| Programme with Code | Programme Specialization | Date of Introduction | Course with Code | Date of Introduction |
|---|---|---|---|---|
| MSc | Medical Physics | 13/02/2018 | Nuclear and Radiation Physics - MPH 402 | 04/08/2018 |
| MSc | Medical Physics | 13/02/2018 | Radiological Mathematics - MPH 403 | 04/08/2018 |

| MSc | Medical Physics | 13/02/2018 | Basic Electronics and Biomedical Instrumentation - MPS 405 | 04/08/2018 |
|-----|-----------------|------------|----------------------------------------------------------|------------|
| MSc | Medical Physics | 13/02/2018 | Biophysics - MPS 406 | 04/08/2018 |
| MSc | Medical Physics | 13/02/2018 | Medical Physics Practical – I - MPP 407 | 04/08/2018 |
| MSc | Medical Physics | 13/02/2018 | Medical Physics Practical – II - MPP 408 | 04/08/2018 |
| MSc | Medical Physics | 13/02/2018 | Radiation Detection and Measurement - MPH 451 | 04/08/2018 |
| MSc | Medical Physics | 13/02/2018 | Radiation Dosimetry and Standardization - MPH 452 | 04/08/2018 |
| MSc | Medical Physics | 13/02/2018 | Biostatistics - MPS 454 | 04/08/2018 |
| MSc | Medical Physics | 13/02/2018 | Industrial Application of Radiation and Radioisotopes - MPE 455 | 04/08/2018 |
| [View File](#) | | | | |

## 1.2 – Academic Flexibility

### 1.2.1 – New programmes/courses introduced during the Academic year

| Programme/Course | Programme Specialization | Dates of Introduction |
|------------------|--------------------------|-----------------------|
| MBA | TTM (Tourism and Travel Management) | 07/06/2018 |
| MSc | Medical Physics | 13/02/2018 |
| MSc | Environmental Science | 07/06/2018 |
| MSc | Electronics | 11/10/2018 |
| MA | Kannada | 21/07/2018 |
| [View File](#) | | |

### 1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

| Name of programmes adopting CBCS | Programme Specialization | Date of implementation of CBCS/Elective Course System |
|----------------------------------|--------------------------|-------------------------------------------------------|
| MSc | Medical Physics | 04/08/2018 |

## 1.3 – Curriculum Enrichment

## 1.3.1 – Value-added courses imparting transferable and life skills offered during the year

| Value Added Courses | Date of Introduction | Number of Students Enrolled |
|---|---|---|
| Digital Payment technology for Cashless Society | 23/07/2018 | 51 |
| Enabling Technology for Organic synthesis | 17/09/2018 | 18 |
| Managing Coastal Systems, A Biogeochemical Perspective | 24/09/2018 | 34 |
| Nanostructure Based wideband Gap Materials For Sensor Applications | 11/10/2018 | 39 |
| Statistical Analysis of Big Data Using -R | 03/12/2018 | 50 |
| Multifunctional Advanced Nanomaterials and their Applications | 03/12/2018 | 23 |
| Yaksha Mangala Training Programme | 06/09/2018 | 69 |
| Global Sourcing Strategies and Applications | 11/02/2019 | 41 |
| Advanced Direct Reading Radon, Thoron Progeny Sensors | 22/04/2019 | 24 |
| Data Analysis Using Excel and SPSS | 23/04/2019 | 72 |
| [View File]() | | |

## 1.3.2 – Field Projects / Internships under taken during the year

| Project/Programme Title | Programme Specialization | No. of students enrolled for Field Projects / Internships |
|---|---|---|
| MSc | Biotechnology | 15 |
| MA | Economics | 37 |
| MA | History | 19 |
| MA | Kannada | 36 |
| MA | Journalism and Mass Communication | 24 |
| MSW | Master of Social Work | 70 |
| MA | Sociology | 9 |
| MSc | Applied Chemistry | 31 |
| MSc | Biochemistry | 36 |
| MSc | Biosciences | 14 |
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## 1.4 – Feedback System

| 1.4.1 – Whether structured feedback received from all the stakeholders. | |
| --- | --- |
| Students | Yes |
| Teachers | Yes |
| Employers | No |
| Alumni | Yes |
| Parents | No |

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained

The University collects feedback from three stakeholders - Students, Alumni, and Faculty. The student feedback form is based on the UGC format and focuses on the course/program opted for, faculty and facilities/infrastructure thereof. It consists of parameters such as depth of course content, extent of coverage, applicability/relevance, learning value, clarity and relevance of prescribed reading material/additional source material, rating of the knowledge base of the teachers/ their communication skills, sincerity/commitment, interest generation capacity, ability to integrate course content for broader perspective, accessibility, ability to design evaluation methods, regularity/punctuality etc. The analysis, based on the UGC pattern of grade points A-D is automated with weightage of 4-1 being ascribed and is therefore objective. 30 percent of the student annual feedback questionnaire relates to curriculum and the student's engagement with it, including the learning experiences and outcomes and overall deliverables of each course which helps the University to continuously recalibrate the syllabi and course contents based on relevance and desired outcomes. The BOS interacts with faculty to understand the concerns of stakeholders, scrutinizes question papers and assesses yearly performance to make curricular modifications accordingly. All laboratories are modular with state-of-the-art infrastructure such that students are upskilled in accredited laboratories and a wi-fi-campus ensures easy access to study and learning material. Our green campus enables student learning in a pleasant ambience. Contract faculty are re-recruited based on feedback received from the students. Faculty feedback that pertains mostly to teaching, research and infrastructure facilities has been used by the University to augment faculty performance through provision of ICT facilities, grants towards start-up research for young teachers, facilitation of National/International Conferences through sanction of expenditure thereof each year and providing 40 percent of Research Project Overhead Grants received for infrastructural development of the researchers' departments/spaces. Provision of wi-fi and good LAN facility has enabled faculty to access e-content across international databases for their research and teaching. The Vice-Chancellor advises teachers, whose feedback has not been quite favourable, on a one-to-one basis. Those with good scores are complimented, with such appreciation resulting in increased motivation. Best teacher awards have been instituted for University teachers with such felicitations being done each year on Teachers Day. Alumni feedback contains information on various attributes of the university such as admission process, fee structure, faculty, laboratory and equipment, classrooms, internet and wifi, project guidance, quality of support material, evaluation system, hostel facilities, library, campus training and placement, career counselling, canteen facilities, environment, student-teacher relationship, administration, rating of alumni, rating of the course studied in relation to employment, industry, life experiences, student grievance redressal, academic initiatives, etc. Opinions/suggestions given by alumni have helped to evolve strategies towards enabling students to become professionally-sound, socially-responsible and ethically-conscious. An active alumni

association has led to several student-friendly initiatives on the campus. All feedback reports are placed in the Syndicate of the University from time to time and appropriate measures, as outlined above are taken. An Action Taken Report (ATR) is then placed again before the Syndicate.

# CRITERION II – TEACHING- LEARNING AND EVALUATION

## 2.1 – Student Enrolment and Profile

### 2.1.1 – Demand Ratio during the year

| Name of the Programme | Programme Specialization | Number of seats available | Number of Application received | Students Enrolled |
|---|---|---|---|---|
| MA | Economics | 80 | 65 | 39 |
| PhD or DPhil | Economics | 20 | 88 | 20 |
| MA | English | 42 | 48 | 32 |
| PhD or DPhil | English | 17 | 20 | 35 |
| MA | History | 92 | 21 | 11 |
| PhD or DPhil | History | 11 | 35 | 15 |
| MA | Kannada | 102 | 26 | 15 |
| PhD or DPhil | Kannada | 16 | 13 | 12 |
| MA | Journalism and Mass Communication | 74 | 21 | 16 |
| PhD or DPhil | Mass Communication and Journalism | 0 | 0 | 12 |
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## 2.2 – Catering to Student Diversity

### 2.2.1 – Student - Full time teacher ratio (current year data)

| Year | Number of students enrolled in the institution (UG) | Number of students enrolled in the institution (PG) | Number of fulltime teachers available in the institution teaching only UG courses | Number of fulltime teachers available in the institution teaching only PG courses | Number of teachers teaching both UG and PG courses |
|---|---|---|---|---|---|
| 2018 | 0 | 2571 | 0 | 131 | 0 |

## 2.3 – Teaching - Learning Process

### 2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

| Number of Teachers on Roll | Number of teachers using ICT (LMS, e-Resources) | ICT Tools and resources available | Number of ICT enabled Classrooms | Numberof smart classrooms | E-resources and techniques used |
|---|---|---|---|---|---|
| 131 | 131 | 18 | 88 | 21 | 49 |
| View File of ICT Tools and resources | | | | | |
| View File of E-resources and techniques used | | | | | |

### 2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Mangalore University has been instrumental in giving the first preference to students in many of its endeavours.

In order to build a strong bond and to boost morale and self-confidence of students, there is an effective mentoring system in place in the university. In the institution, it is a usual practice that for every twenty students, a teacher is assigned as a mentor at the beginning of the academic year. The mentees are encouraged to interact with the mentor to have one to one discussion during the time slot reserved exclusively for the process of mentoring. The mentors listen to the problem and situations faced by the mentees. In addition to academic matters, stress related issues of students are efficiently solved by the mentors. Mobile obsession is found to be a major issue and mentoring process helps many students to come out of the addiction to social media and focus on their studies. In Mangalore University, participative learning too is encouraged. Outdoor classes are conducted. By taking students outside the four walls of the classroom, the concept of being with nature is reinforced in the students. This is a part of mentoring process and helps to establish a cordial relationship between the mentees and the mentor especially for the students staying in the hostels, away from the parents. Students confide many problems and feel at ease by sharing their difficulties with the mentors. If the students are not comfortable with the mentor allotted, they are given the option of changing their mentor and by doing so, it is made sure that a confidence level is built up and a sense of belongingness is felt by both the parties. In this process, a relationship of trust is established which helps the students a long way to take concrete decisions about their life, to choose a career path and manage the emotional ups and downs. By the mentoring process, the students graduating are healthy, happy and confident. The best talents in students gets identified and they will be in a position to take right decisions about their career and personal life with confidence.

| Number of students enrolled in the institution | Number of fulltime teachers | Mentor : Mentee Ratio |
| :---: | :---: | :---: |
| 2571 | 131 | 19.63 |

## 2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

| No. of sanctioned positions | No. of filled positions | Vacant positions | Positions filled during the current year | No. of faculty with Ph.D |
| :---: | :---: | :---: | :---: | :---: |
| 174 | 117 | 57 | 0 | 105 |

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year )

| Year of Award | Name of full time teachers receiving awards from state level, national level, international level | Designation | Name of the award, fellowship, received from Government or recognized bodies |
| :---: | :---: | :---: | :---: |
| 2019 | Dr. A. H. Sneha Rani | Assistant Professor | International Collaboration/Exchange Programme by INSA |
| 2018 | Dr. Karunakara N. | Professor | Sir C. V. Raman State Award for Young Scientists |
| 2018 | Dr. Kishori P Narayankar | Assistant Professor | Outstanding Scientist, Venus Institutional Foundation, Tamilnadu |
| | | [View File](#) | |

## 2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

| Programme Name | Programme Code | Semester/ year | Last date of the last semester-end/ year-end examination | Date of declaration of results of semester-end/ year- end examination |
| :---: | :---: | :---: | :---: | :---: |
| | | | | |

| MA | EC | 1 | 04/01/2019 | 05/03/2019 |
|----|----|---|------------|------------|
| MA | EC | 2 | 22/05/2019 | 22/08/2019 |
| MA | EC | 3 | 04/01/2019 | 05/03/2019 |
| MA | EC | 4 | 22/05/2019 | 13/07/2019 |
| MA | EN | 1 | 02/01/2019 | 05/03/2019 |
| MA | EN | 2 | 27/05/2019 | 19/08/2019 |
| MA | EN | 3 | 02/01/2019 | 11/02/2019 |
| MA | EN | 4 | 27/05/2019 | 26/07/2019 |
| MA | HS | 1 | 28/12/2018 | 08/03/2019 |
| MA | HS | 2 | 22/05/2019 | 29/07/2019 |
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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

| Number of complaints or grievances about evaluation | Total number of students appeared in the examination | Percentage |
|-----------------------------------------------------|------------------------------------------------------|------------|
| 92 | 2099 | 4.38 |

## 2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://mangaloreuniversity.ac.in/cbcs-pg-syllabus

2.6.2 – Pass percentage of students

| Programme Code | Programme Name | Programme Specialization | Number of students appeared in the final year examination | Number of students passed in final year examination | Pass Percentage |
|----------------|----------------|--------------------------|-----------------------------------------------------------|-----------------------------------------------------|-----------------|
| BC | MSc | Biochemistry | 24 | 24 | 100 |
| AC | MSc | Applied Chemistry | 31 | 28 | 90.32 |
| SY | MA | Sociology | 9 | 9 | 100 |
| SW | MSW | Master of Social Work | 50 | 50 | 100 |
| PS | MA | Political Science | 29 | 29 | 100 |
| JM | MA | Journalism and Mass Communication | 25 | 24 | 96 |
| KN | MA | Kannada | 19 | 19 | 100 |
| HS | MA | History | 12 | 12 | 100 |
| EN | MA | English | 25 | 25 | 100 |
| EC | MA | Economics | 37 | 37 | 100 |
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## 2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

https://mangaloreuniversity.ac.in/students-feedback-analysis-report-0

## CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

### 3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

| Type | Name of the teacher awarded the fellowship | Name of the award | Date of award | Awarding agency |
|---|---|---|---|---|
| International | Dr. Sneharani A. H. | INSA bilateral exchange program | 08/02/2019 | INSA |

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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

| Name of Research fellowship | Duration of the fellowship | Funding Agency |
|---|---|---|
| UGC JRF (Name of the Fellow: Akshatha Pai) | 1825 | UGC, New Delhi |
| UGC-JRF (Name of the Fellow: Akshaya Pai) | 1825 | UGC, New Delhi |
| Director of Minorities Fellowship (Name of the Fellow: Josline Neetha D'Souza) | 1095 | Directorate of Minorities, Govt. of Karnataka |
| Director of Minorities Fellowship (Name of the Fellow: Sabia Kausar) | 1095 | Directorate of Minorities, Govt. of Karnataka |
| KSTEPS fellowship (Name of the Fellow: Vinuta Kamat) | 1825 | DST-through Govt. of Karnataka |
| Ethiopian Embassy Fellowship (Name of the Fellow: Tadesse Bassie Gelaw) | 1095 | Ministry of Education Federal Democratic Republic of Ethiopia |
| Research Training Fellowship (Name of the Fellow: Ella Fils Armand) | 180 | DST – FICCI |
| CPEPA-JRF (Name of the Fellow: Shailesh B) | 1460 | UGC-CPEPA |
| SERB-ECR Project Fellowship (Name of the Fellow: Nijil S. ) | 1095 | DST-SERB-ECR |
| DST-SERB JRF (Name of the Fellow: Y. Karthik) | 1460 | DST-SERB |

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### 3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

| Nature of the Project | Duration | Name of the funding agency | Total grant sanctioned | Amount received during the year |
|---|---|---|---|---|
| Major Projects | 1095 | BRNS | 31.35 | 6.77 |
| Major Projects | 1095 | DAE, BRNS | 22.4 | 7.25 |
| Major Projects | 1460 | DST-SERB | 29.13 | 6 |
| Major Projects | 1825 | UGC-SAP | 105 | 63.72 |
| Major Projects | 1825 | DBT-Ramalinga-swami Re-entry Fellowship | 88 | 15.67 |
| Major Projects | 1460 | DST-SERB Govt. of India | 46.71 | 4.4 |
| Major Projects | 1095 | DST-SERB Govt. of India | 43.23 | 26.16 |
| Major Projects | 365 | VGST | 5 | 5 |
| Major Projects | 1825 | UGC-SAP | 60 | 1.8 |
| Major Projects | 1825 | DST - INSPIRE | 35 | 13.65 |
| View File | | | | |

## 3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

| Title of workshop/seminar | Name of the Dept. | Date |
|---|---|---|
| A talk on Prospective Entrepreneurship in the Biotechnology / Healthcare Sectors about Various Funding and Support Options Available | Biosciences | 02/08/2018 |
| Two day National Level Conference on Corporate Social Responsibility(CSR): Challenges and New Initiatives" | Commerce | 14/09/2018 |
| International Workshop on Yoga Therapy | Human Consciousness and Yogic Science | 28/01/2019 |
| Two day International Level Conference on "Contemporary Innovations in Industry and Commerce" | Commerce | 22/02/2019 |
| No file uploaded. | | |

3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

| Title of the innovation | Name of Awardee | Awarding Agency | Date of award | Category |
|---|---|---|---|---|
| Gopalan Prize for Best Research Paper | Mr. Sathyanarayana | XXXVII Annual convention of Indian Society for Probability and Statistics | 27/12/2018 | Research Scholar |

| | | (ISPS) held at Department of Statistics ,Maharshi Dayanand University ,Rohtak ,Haryana | | |
|---|---|---|---|---|
| Prof. Kaza Somasekhara Rao Award of ICC | Prof. Vishalakshi B. | Indian Council of Chemists | 12/12/2018 | Teacher |
| Adarsh Vidya Saraswati Rashtriya Puraskar | Prof. Krishna Sharma | Global Management Council | 22/07/2018 | Teacher |
| Protective Effect of Gallic Acid against Cyclophosphamide Induced Testicular aDamage in Swiss Albine Mice (Best Paper Award) | Ms. Shruthi S | Department of Biotechnology, in association with Karnataka State Pollution Control Board, Mangalore. | 23/02/2019 | Research Scholar |
| Best Paper Presentation in Physical Chemistry Section | Mr. B. R. Kaushik | Indian Council of Chemists | 12/12/2018 | Research Scholar |
| Anti-Inflammatory and Anti-Microbial Activity Studies of Some Novel Derivatives (Best Paper Award) | Ms. P Nafisath | SRM Institute of Science and Technology, Chennai | 27/12/2018 | Research Scholar |
| Best Oral Presentaion Physical Chemistry Section | Ms. B.K. Preetha | Indian Council of Chemists | 12/12/2018 | Research Scholar |
| Best Oral Presentation in International Coference on Material and Spectroscopy(ICMS-2018) | Ms. Likhitha U | Savitha Engineering College, Chennai | 11/12/2018 | Research Scholar |
| Predicting the Survival of ICU | Mr. Sathyanarayana | International conference on | 15/11/2018 | Research Scholar |

| patients through Structural Equation Model (Best Paper Award) | | Advanced IT, Engineering and Management" organized IT department of AIMIT and School of Information Technology in association with Computer Society of India , Indian society for Technical education, Iconic IT Profession | | | |
|---|---|---|---|---|---|

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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

| Incubation Center | Name | Sponsored By | Name of the Start-up | Nature of Start-up | Date of Commencement |
|---|---|---|---|---|---|
| No Data Entered/Not Applicable !!! | | | | | |
| No file uploaded. | | | | | |

## 3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

| Name of the Department | Number of PhD's Awarded |
|---|---|
| Business Administration | 12 |
| Commerce | 3 |
| Physical Education | 2 |
| Economics | 6 |
| English | 1 |
| History | 3 |
| Journalism and Mass Communication | 1 |
| Kannada | 3 |
| Political Science | 2 |
| Sociology | 3 |
| Applied Botany | 2 |
| Applied Zoology | 3 |
| Biosciences | 6 |
| Chemistry | 9 |
| Computer Science | 5 |
| Human Consciousness and Yogic Sciences | 3 |
| Library and Information Science | 5 |
| Marine Geology | 1 |

| | |
|---|---|
| **Materials Science** | 2 |
| **Mathematics** | 1 |
| **Physics** | 16 |
| **Statistics** | 4 |

3.4.2 – Research Publications in the Journals notified on UGC website during the year

| Type | Department | Number of Publication | Average Impact Factor (if any) |
|---|---|---|---|
| **International** | **Applied Botany** | **14** | **2.35** |
| **International** | **Applied Zoology** | **15** | **1.65** |
| **International** | **Biosciences** | **32** | **3.85** |
| **International** | **Physics** | **71** | **1.96** |
| **International** | **Electronics** | **13** | **2.99** |
| **International** | **Chemistry** | **66** | **2.39** |
| **International** | **Industrial Chemistry** | **22** | **2.07** |
| **International** | **Materials Science** | **7** | **2.31** |
| **International** | **Mathematics** | **4** | **0.63** |
| **International** | **Marine Geology** | **9** | **1.99** |
| [View File](#) | | | |

3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

| Department | Number of Publication |
|---|---|
| **Economics** | 2 |
| **English** | 1 |
| **Kannada** | 3 |
| **Sociology** | 3 |
| **Social Work** | 3 |
| **Applied Zoology** | 2 |
| **Biosciences** | 5 |
| **Biochemistry** | 1 |
| **Chemistry** | 1 |
| **Computer Science** | 22 |
| [View File](#) | |

3.4.4 – Patents published/awarded/applied during the year

| Patent Details | Patent status | Patent Number | Date of Award |
|---|---|---|---|
| **No Data Entered/Not Applicable !!!** | | | |
| **No file uploaded.** | | | |

3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

| Title of the Paper | Name of Author | Title of journal | Year of publication | Citation Index | Institutional affiliation as | Number of citations |
|---|---|---|---|---|---|---|

| | | | | | mentioned in the publication | excluding self citation |
|---|---|---|---|---|---|---|
| Heterocyclic modification of chitosan for the adsorption of Cu (II) and Cr (VI) ions | Anush, S. M. Vishalakshi, B. Chandan, H. R. Geetha, B. R. | SEPARATION SCIENCE AND TECHNOLOGY | 2018 | 9 | Mangalore University | 6 |
| 5-(1-Aryl-3-(thiophen-2-yl)-1H-pyrazol-4-yl)-1H-tetrazoles: Synthesis, structural characterization, Hirshfeld analysis, anti-inflammatory and anti-bacterial studies | Kumbar, Mahadev N. Kamble, Ravindra R. Dasappa, Jagadeesh Prasad Bayannavar, Praveen K. Khamees, Hussien Ahmed Mahendra, M. Joshi, Shrinivas D. Dodamani, Suneel Rasal, V. P. Jalalpure, Sunil | JOURNAL OF MOLECULAR STRUCTURE | 2018 | 9 | Mangalore University | 9 |
| Fabrication of poly (Solid Red A) modified carbon nano tube paste electrode and its application for simultaneous determination of epinephrine, uric acid and ascorbic acid | Manjunatha, J. G. Deraman, M. Basri, N. H. Talib, I. A. | ARABIAN JOURNAL OF CHEMISTRY | 2018 | 10 | Mangalore University | 9 |
| A novel poly (glycine) biosensor | Manjunatha, Jamballi Gangadharappa Gowda | JOURNAL OF FOOD AND DRUG ANALYSIS | 2018 | 13 | Mangalore University | 13 |

| | | | | | | |
|---|---|---|---|---|---|---|
| towards the detection of indigo carmine: A voltammetr ic study | | | | | | |
| Electrical conducting Xanthan Gum-graft-po lyaniline as corrosion inhibitor for aluminum in hydroch loric acid environmen t | Babaladima th, Gangadhar Badalamool e, Vishala kshi Nandi bewoor, S. T. | MATERIALS CHEMISTRY AND PHYSICS | 2018 | 13 | Mangalore University | 12 |
| Tetrandrin e and cancer - An overview on the molecular approach | Bhagya, N. Chandrashe kar, K. R. | BIOMEDICIN E PHARMACO THERAPY | 2018 | 14 | Mangalore University | 12 |
| Design, Synthesis, DNA Binding, and Docking Studies of Thiazoles and Thiazo le-Contain ing Triazoles as Antibac terials | Santosh, Rangappa Selvam, Mukunthan K. Kanekar, Saptami U. Nagaraja, Gundibasap pa K. Kumar, Madan | CHEMISTRYS ELECT | 2018 | 14 | Mangalore University | 12 |
| Synthesis of pyrazol e-based Schiff bases of Chitosan: Evaluation of antimic robial activity | Anush, S. M. Vishala kshi, B. Kalluraya, B. Manju, N. | INTERNATIO NAL JOURNAL OF BIOLOGICAL MACROMOLEC ULES | 2018 | 15 | Mangalore University | 13 |
| A global analysis of terrest | Datry, T. Foulquier, A. Corti, | NATURE GEOSCIENCE | 2018 | 16 | Mangalore University | 15 |

| rial plant litter dynamics in non-perennial waterways | R. von Schiller, D. Tockner, K. Mendoza-Lera, C. Clement, J. C. Gessner, M. O. Moleon, M. Stubbington, R. Gucker, B. Albarino, R. Allen, D. C. Altermatt, F. Arce, M., I Arnon, S. Banas, D. Banegas-Medin | | | | | |
|---|---|---|---|---|---|---|
| A study on adsorption behavior of newly synthesized banana pseudo-stem derived superabsorbent hydrogels for cationic and anionic dye removal from effluents | Bello, Kabiru Sarojini, Balladka Kunhanna Narayana, Badiadka Rao, Anjali Byrappa, Kullaiah | CARBOHYDRATE POLYMERS | 2018 | 18 | Mangalore University | 17 |
| | | | View File | | | |

3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

| Title of the Paper | Name of Author | Title of journal | Year of publication | h-index | Number of citations excluding self citation | Institutional affiliation as mentioned in the publication |
|---|---|---|---|---|---|---|
| 5-(1-Aryl-3-(thiophen-2-yl)-1H-pyrazol-4-yl)-1H-tetrazoles: Synthesis, | Kumbar, Mahadev N. Kamble, Ravindra R. Dasappa, Jagadeesh | JOURNAL OF MOLECULAR STRUCTURE | 2018 | 9 | 9 | Mangalore University |

| | | | | | | |
|---|---|---|---|---|---|---|
| structural characterization, Hirshfeld analysis, anti-inflammatory and anti-bacterial studies | Prasad Bayannavar, Praveen K. Khamees, Hussien Ahmed Mahendra, M. Joshi, Shrinivas D Dodamani, Suneel Rasal, V. P. Jalalpure, Sunil | | | | | |
| Fabrication of poly (Solid Red A) modified carbon nano tube paste electrode and its application for simultaneous determination of epinephrine, uric acid and ascorbic acid | Manjunatha, J. G. Deraman, M. Basri, N. H. Talib, I. A. | ARABIAN JOURNAL OF CHEMISTRY | 2018 | 9 | 9 | Mangalore University |
| A novel poly (glycine) biosensor towards the detection of indigo carmine: A voltammetric study | Manjunatha, Jamballi Gangadharappa Gowda | JOURNAL OF FOOD AND DRUG ANALYSIS | 2018 | 9 | 13 | Mangalore University |
| Electrical conducting Xanthan Gum-graft-polyaniline as corrosion inhibitor for aluminum in hydroch | Babaladimath, Gangadhar Badalamoole,VishalakshiNandibewoor, S. T. | MATERIALS CHEMISTRY AND PHYSICS | 2018 | 9 | 12 | Mangalore University |

| | | | | | | |
|---|---|---|---|---|---|---|
| loric acid environmen t | | | | | | |
| Tetrandrin e and cancer - An overview on the molecular approach | Bhagya, N. Chandrashe kar, K. R. | BIOMEDICIN E PHARMACO THERAPY | 2018 | 9 | 12 | Mangalore University |
| Design, Synthesis, DNA Binding, and Docking Studies of Thiazoles and Thiazo le-Contain ing Triazoles as Antibac terials | Santosh, Rangappa Selvam, Mukunthan K. Kanekar, Saptami U. Nagaraja, Gundibasap pa K. Kumar, Madan | CHEMISTRYS ELECT | 2018 | 9 | 12 | Mangalore University |
| Synthesis of pyrazol e-based Schiff bases of Chitosan: Evaluation of antimic robial activity | Anush, S. M. Vishala kshi, B. Kalluraya, B. Manju, N | INTERNATIO NAL JOURNAL OF BIOLOGICAL MACROMOLEC ULES | 2018 | 9 | 13 | Mangalore University |
| A global analysis of terrest rial plant litter dynamics in non- perennial waterways | Datry, T. Foulquier, A. Corti, R. von Schiller, D. Tockner, K .Mendoza- Lera, C. Clement, J .C.Gessner , M. O. Moleon, M. Stubbingto n,R. Gucker, B. Albarino, R. Allen, D. C.Alter matt, F. Arce, M.,I | NATURE GEOSCIENCE | 2018 | 9 | 15 | Mangalore University |

| A study on adsorption behavior of newly synthesized banana pseudo-stem derived superabsorbent hydrogels for cationic and anionic dye removal from effluents | Bello, Kabiru Sarojini, Balladka Kunhanna Narayana, Badiadka Rao, Anjali Byrappa, Kullaiah | CARBOHYDRATE POLYMERS | 2018 | 9 | 17 | Mangalore University |
|---|---|---|---|---|---|---|

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3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

| Number of Faculty | International | National | State | Local |
|---|---|---|---|---|
| Attended/Seminars/Workshops | 79 | 106 | 61 | 21 |
| Presented papers | 163 | 152 | 19 | 4 |
| Resource persons | 10 | 29 | 0 | 7 |

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## 3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

| Name of the Consultan(s) department | Name of consultancy project | Consulting/Sponsoring Agency | Revenue generated (amount in rupees) |
|---|---|---|---|
| Centre for Advanced Research in Environmental Radioactivity (CARER) | Analysis of samples from various institutions | Different Institutions of the Country | 376000 |
| Promotion of University Research and Scientific Excellence (PURSE) | Processing and Analysis of samples from various institutions | Different Institutions of the Country | 484000 |
| Centre for Application of Radioisotopes and Radiation Technology (CARRT) | Analysis/Radiation Processing of samples from various institutions | Different Institutions of the Country | 181000 |

3.5.2 – Revenue generated from Corporate Training by the institution during the year

| Name of the Consultan(s) department | Title of the programme | Agency seeking / training | Revenue generated (amount in rupees) | Number of trainees |
|---|---|---|---|---|
| Centre for Advanced Research in Environmental Radioactivity (CARER) | Measurement of gross alpha and gross beta in packaged drinking water | M/s. VIMTA LABS LIMITED, Jagadeesh Kodali Vice President - Food Division 5, MN Park (Formerly Alexandria Knowledge Park), Genome Valley, Shamirpet, Mechal-Malkajigiri Dist., Hyderabad - 500101, INDIA | 100000 | 2 |

## 3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

| Title of the activities | Organising unit/agency/ collaborating agency | Number of teachers participated in such activities | Number of students participated in such activities |
|---|---|---|---|
| Registration and issue of Senior Citizen Cards, under MangalaYojane – A Village Adoption Programme | N.S.S. Unit of Dr.P.Dayananda Pai P.and Sathish Pai government First Grade College, Mangalore and Junior Chamber International (JCI), Mangalagangothri | 2 | 20 |
| Workshop on Inland and Ornamental Fish Culture | Fishery Department – Dakshina Kannada ZillaPanchayat and Naringana GramaPanchayat, at Govt. High-school, Montepadavu, Naringana. | 2 | 32 |
| A special talk on `Health for All' and free health check up in the context of the celebration of | Yenepoya Ayurveda Medical College and Hospital, Mangaluru | 3 | 60 |

| | | | |
|---|---|---|---|
| World Health Day | | | |
| Street play to create awareness about the Ozone Hole and minimization of atmospheric pollutions to conserve ozone layer by the students of M.Sc. Environmental Science | Mangalore University | 2 | 15 |
| Summer Research Project Work for BSc students | University College | 1 | 5 |
| Election Voting Awareness Programme | Department of Political Science, Mangalore University Systematic Voters Education and Electoral Participation (SVEEP) | 4 | 50 |
| Seminar on Narayana Guru Principles Past-Present-Future | Organised by Brahmashri Narayana Guru Adhyayana Peetha in collaboration with Yuvavahini ® Central Unit, Mangalore and N.S.S unit of Mangalore University | 10 | 600 |
| A lecture workshop on Importance of Wildlife | Vishwamangala High School, Mangalagangothri (07.02.2019) | 1 | 70 |
| Book Release Program | Extension programme was held at F.M.K.M.C College, Madikeri | 25 | 100 |
| NSS | NSS unit, Jnana Kaveri, Mangalore University | 4 | 75 |
| [View File](#) | | | |

3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

| Name of the activity | Award/Recognition | Awarding Bodies | Number of students Benefited |
|---|---|---|---|
| NIL | NIL | NIL | 0 |

3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

| Name of the scheme | Organising unit/Agency/collaborating agency | Name of the activity | Number of teachers participated in such activites | Number of students participated in such activites |
|---|---|---|---|---|
| Mangala Yojane – A Village Adoption Programme | N.S.S. Unit of Dr.P.Dayananda Pai P. and Sathish Pai government First Grade College, Mangalore and Junior Chamber International (JCI), Mangalagangotri | Registration and Distribution of Senior Citizen Cards to local people, under MangalaYojane – A Village Adoption Programme | 2 | 50 |
| Mangala Yojane – A Village Adoption Programme | Fishery Department – Dakshina Kannada Zilla Panchayat and Naringana Grama Panchayat, at Govt. High-school, Montepadavu, Naringana. | Workshop on Inland and Ornamental Fish Culture | 3 | 90 |
| World Health Day | Yenepoya Ayurveda Medical College and Hospital, Mangaluru | Free health check-up and health awareness programme | 5 | 30 |
| World Ozone Day | Mangalore University | Street play to create awareness about the Ozone Hole and minimization of atmospheric pollutions to conserve ozone layer by the students of M.Sc. Environmental Science | 5 | 90 |
| Gender equality in learning spaces | SDM College, Ujire | Lecture and interaction on composition and functioning of the ICC | 1 | 100 |
| Swachch Bharat | Mangalore University | Cleaning and maintaining | 1 | 77 |

| | | hygiene in surroundings | | |
|---|---|---|---|---|
| GIAN | MHRD | GIAN programme on 'Visual Object Recognition' | 5 | 80 |
| GIAN | MHRD | GIAN programme on 'Digital Payments: Technology for Cashless Society' | 5 | 96 |
| Awareness Programme | Department of Political Science, Mangalore University Systematic Voters Education and Electoral Participation (SVEEP) | Election Voting Awareness Programme | 4 | 50 |
| Swachh Bharat | Mangalore University | Swachh Bharat, Campus cleaning | 106 | 1075 |

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**3.7 – Collaborations**

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

| Nature of activity | Participant | Source of financial support | Duration |
|---|---|---|---|
| Collaborative Research Project | Dr. Mohammed S Mustak | Konkani Adhyayana Peeta, Mangalore University | 1460 |
| Summer fellowship/training | Nisha | Indian Academy of Science, Bangalore | 60 |
| Collaborative Research | Dr. Monika Sadananda | Father Muller Homoeopathic Medical College, Deralakatte, Mangalore | 1825 |
| DST-JSPS Collaborative Research Works | Dr. Masaki Ito, Japan C. Krishna Mohan, IIT Hyderabad | DST, Govt. of India | 730 |
| Research | Dr. Mohammed S Mustak | Tata Institute for Genetics and Society (TIGS) Bangalore | 365 |

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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

| Nature of linkage | Title of the linkage | Name of the partnering institution/ industry /research lab with contact details | Duration From | Duration To | Participant |
|---|---|---|---|---|---|
| Training program | Industrial Training | Advinus therapeautics, Bangalore | 11/06/2018 | 20/07/2018 | Sowjanya C Shetty |
| Training program | Industrial Training | Advinus therapeautics, Bangalore | 11/06/2018 | 20/07/2018 | Ranjita Mahadev Naik |
| Training program | Industrial Training | Advinus therapeautics, Bangalore | 11/06/2018 | 20/07/2018 | Anvitha K S |
| Training program | Industrial Training | Petropath Fluids India, Bangalore | 14/06/2018 | 14/07/2018 | Ishwara Sharma P |
| Training program | Industrial Training | Institute of Drilling Fluids Research and Development, Gujarat | 14/06/2018 | 14/07/2018 | Anupa A R |
| Training program | Industrial Training | RL Fine, Bangalore | 11/06/2018 | 11/07/2018 | Mamatha Venktayya Naik |
| Training program | Industrial Training | RL Fine, Bangalore | 11/05/2018 | 11/07/2018 | Annapoorna S Bhat |
| Training program | Training | DAE-Board of Radiation and Isotope Technology, Mumbai | 26/06/2018 | 10/09/2018 | Manupriya BR |
| Training program | Training | DAE-Board of Radiation and Isotope Technology, Mumbai | 26/06/2018 | 26/12/2018 | Lathika |
| Training program | Training | DAE-Board of Radiation and Isotope Technology, Mumbai | 04/07/2018 | 16/09/2018 | Tanhaji Ghodke |
| [View File](#) | | | | | |

 3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

| Organisation | Date of MoU signed | Purpose/Activities | Number of students/teachers participated under MoUs |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Birbal Sahni Institute of Palaeosciences, Lucknow | 10/05/2018 | Research | 1 |
| Father Muller Homoeopathic Medical College, Deralakatte, Mangalore | 04/10/2018 | Collaborative research | 1 |
| National Institute of Radiological Sciences, National Institutes for Quantum and Radiological Science and Technology, Anagawa, Inage-ku,Chiba-shi,Chiba 263-8555,Japan | 30/07/2018 | Promote cooperation in academic education and research | 12 |
| world Konkani Centre | 27/04/2018 | Project Title: The Konkani People of Karnataka: A study of their Origin, Migration Settlement Patterns. During 2018-19: Collection of reports, review of literature, collection of blood samples was done/carried out. | 2 |
| No file uploaded. | | | |

## CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

**4.1 – Physical Facilities**

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

| Budget allocated for infrastructure augmentation | Budget utilized for infrastructure development |
|---|---|
| 17929 | 2042.44 |

4.1.2 – Details of augmentation in infrastructure facilities during the year

| Facilities | Existing or Newly Added |
|---|---|
| Value of the equipment purchased during the year (rs. in lakhs) | Newly Added |
| Number of important equipments purchased (Greater than 1-0 lakh) during the current year | Newly Added |
| Video Centre | Existing |
| Seminar halls with ICT facilities | Newly Added |
| Classrooms with Wi-Fi OR LAN | Newly Added |

| Classrooms with LCD facilities | Existing |
|---|---|
| Seminar Halls | Existing |
| Laboratories | Newly Added |
| Class rooms | Existing |
| Campus Area | Existing |

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## 4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

| Name of the ILMS software | Nature of automation (fully or patially) | Version | Year of automation |
|---|---|---|---|
| KOHA | Fully | 17.11.00.001 | 2018 |

4.2.2 – Library Services

| Library Service Type | Existing | | Newly Added | | Total | |
|---|---|---|---|---|---|---|
| Text Books | 136265 | 32168668 | 1820 | 2144388 | 138085 | 34313056 |
| Reference Books | 14331 | 1133000 | 54 | 63612 | 14385 | 1196612 |
| Journals | 24181 | 38123142 | 247 | 1434966 | 24428 | 39558108 |
| e-Journals | 46042 | 113393 | 0 | 0 | 46042 | 113393 |
| Digital Database | 3 | 1364930 | 0 | 0 | 3 | 1364930 |
| CD & Video | 371 | 33050 | 0 | 0 | 371 | 33050 |
| Others(specify) | 3876 | 2567614 | 444 | 464090 | 4320 | 3031704 |
| Others(specify) | 1484 | 263464 | 0 | 0 | 1484 | 263464 |
| Others(specify) | 19137 | 0 | 180 | 0 | 19317 | 0 |

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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

| Name of the Teacher | Name of the Module | Platform on which module is developed | Date of launching e-content |
|---|---|---|---|
| Dr. Joseph P D | Categorization of Tourists According to their Motive of Travel | E-PG Pathshala | 09/05/2018 |

No file uploaded.

## 4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

| Type | Total Computers | Computer Lab | Internet | Browsing centers | Computer Centers | Office | Departments | Available Bandwidth (MBPS/ | Others |
|---|---|---|---|---|---|---|---|---|---|

| | | | | | | | | | GBPS) | |
|---|---|---|---|---|---|---|---|---|---|---|
| Existing | 1148 | 24 | 1000 | 4 | 1 | 2 | 1 | 1 | 0 |
| Added | 25 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | 1173 | 25 | 1000 | 4 | 1 | 2 | 1 | 1 | 0 |

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

**1 MBPS/ GBPS**

4.3.3 – Facility for e-content

| Name of the e-content development facility | Provide the link of the videos and media centre and recording facility |
|---|---|
| Media Centre, Audio Visual centre, Lecture Capturing System(LCS), Mixing equipments and softwares for editing | https://mangaloreuniversity.ac.in/sites/default/files/NAAC%20-%202020/Criterion4/3.%20Kannada%20Home%20theater%20(LCD%20&%20LAN).mp4 |

## 4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

| Assigned Budget on academic facilities | Expenditure incurred on maintenance of academic facilities | Assigned budget on physical facilities | Expenditure incurredon maintenance of physical facilites |
|---|---|---|---|
| 1081.18 | 872.91 | 100 | 45.71 |

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The University has a dedicated maintenance section in the Engineering Division which is responsible for overseeing the maintenance of all the properties of the University, including classrooms and laboratories. The estate section maintains the records pertaining to the properties of the University. Maintenance of the horticulture facilities including landscaping works, planting of saplings, clearing of grass and vegetation, are outsourced under the supervision of a horticulture supervisor and Estate Officer. The green initiatives of the University are overseen by the estate officer and University Green Audit Committee. The routine daily cleaning of central offices, departments, hostels and other facilities and 24×7 security service on the campus are done through contract staff with private agencies as per the procedure laid down by the university under the supervision of the Estate Officer. There are separate divisions in the engineering section for repair and maintenance of water supply, sanitation, fitting, water cooler, water purifiers, geysers, blockages and leakage clearing, overhead roof tanks, drains, round the clock electricity services and civil maintenance works of buildings, hostels and residential complexes. The maintenance of equipment/instruments is undertaken by the Head, USIC for the equipment placed at the central facility and also in other centres. The maintenance/repair of specific equipment in the departments is undertaken by the concerned head of the department as per the procedures laid down by the university. Maintenance of IT infrastructure takes place through execution of AMCs under the control of the Director, University Computer Centre. Every year this process is done through e-tender portal, following the norms set by the University. The same procedure is followed in the case of Annual Maintenance Contract for Network, Wi-Fi facility and CCTV Surveillance System. Sports facilities are maintained by the Directorate of Physical Education from its allocated budget. Outside

institutions, agencies and individuals are required to pay for use of facilities and therefore a small portion of funds generated is paid to the university. The University endeavors to ensure optimal utilization of its physical facilities, i.e., classrooms, laboratories, computer labs, and sports facilities through the concerned Heads. Scientific equipments are accessible and made available to the faculty, students and researchers both in-house and outstation, on nominal charges. Some facilities like library, sports, auditorium, conference halls and sports complex are available beyond working hours on holidays also. Apart from bonafide students of the university, scholars from other institutions and the wards of university employees also use the service. Labs are utilised by staff and students through the departments and the heads of the concerned departments are responsible for the optimal use of the labs. Computing facilities are provided by the Computer Centre. The Director of the Computer Centre ensures the best use of the computing facility by setting up the guidelines. The Director of Sports guides the utilization of sport facilities. A day-to-day logbook is maintained facility-wise, whereby the utilisation level is well-monitored.

https://mangaloreuniversity.ac.in/sites/default/files/2020/4.4.2-Procedures-and-policies-for-maintaining-and-utilizing-physical-academic-and-support-facilities.pdf

## CRITERION V – STUDENT SUPPORT AND PROGRESSION

**5.1 – Student Support**

5.1.1 – Scholarships and Financial Support

|  | Name/Title of the scheme | Number of students | Amount in Rupees |
| --- | --- | --- | --- |
| Financial Support from institution | Sports kits to M.P.Ed/B.P.Ed./ Dissertation /Project work to P.G. students, Extra Boarding Lodging Expenses to Hostels, Ph.D Fellowship/ Contigency/Conference through SC/ST Cell, Jindal | 588 | 23045719 |
| Financial Support from Other Sources |  |  |  |
| a) National | SC/ST Scholarship, RTF-DCS Fellowship, CSIR, JRF/SRF, DOM Fellowship, DST KSTePS, DST SERB, UGC CPEPA Fellowship, UGC National Fellowship, ICCR Fellowship | 342 | 16606753 |
| b)International | Embassy of the Fedaral Democratic Republic of Ethiopia | 19 | 1274040 |
| View File |  |  |  |

5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

| Name of the capability enhancement scheme | Date of implemetation | Number of students enrolled | Agencies involved |
|---|---|---|---|
| Statistical Modelling of self-reported and proxy observations in longitudinal studies | 12/01/2018 | 50 | Prof. Nagaraj K Neerchal, University of Maryland, Baltimore County, USA |
| Invited talk on testing equality of variances of normal population | 15/03/2019 | 50 | Prof. Aruna Rao K Rtd. Professor, Mangalore University |
| Lecture on Prospective entrepreneurship in Biotechnology | 07/08/2018 | 70 | Mr. P Somarajan, IIT, Delhi |
| SPSS for Market Research | 04/05/2019 | 50 | Chethan A Data Analyst, Blue ocean Market Intelligence, Bangalore |
| Data Analysis using advanced MS Excel | 23/04/2019 | 87 | Department of Business Administration, Mangalore university |
| Introduction to Phyton | 13/04/2019 | 50 | Mr. Vadiraj Acharya Data analyst GE money, Bangalore |
| Invited Talk on Research, Job and Entrepreneurship Opportunities in India and Abroad | 17/01/2019 | 197 | Prof. Balakrishna S Maddodi, Manipal Institute of Technology, Manipal |
| **No file uploaded.** | | | |

5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

| Year | Name of the scheme | Number of benefited students for competitive examination | Number of benefited students by career counseling activities | Number of students who have passedin the comp. exam | Number of studentsp placed |
|---|---|---|---|---|---|
| 2018 | NET-KSET Coaching Classes | 12 | 0 | 9 | 0 |
| 2018 | Pre - Exam training | 180 | 0 | 0 | 0 |
| 2018 | Carrer Guidance | 0 | 1402 | 0 | 0 |

| Program |
|---|

| No file uploaded. |
|---|

5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

| Total grievances received | Number of grievances redressed | Avg. number of days for grievance redressal |
|---|---|---|
| 1 | 1 | 2 |

**5.2 – Student Progression**

5.2.1 – Details of campus placement during the year

| On campus | | | Off campus | | |
|---|---|---|---|---|---|
| Nameof organizations visited | Number of students participated | Number of stduents placed | Nameof organizations visited | Number of students participated | Number of stduents placed |
| 10 | 139 | 65 | 24 | 115 | 54 |

| No file uploaded. |
|---|

5.2.2 – Student progression to higher education in percentage during the year

| Year | Number of students enrolling into higher education | Programme graduated from | Depratment graduated from | Name of institution joined | Name of programme admitted to |
|---|---|---|---|---|---|
| 2018 | 1 | MSc | Applied Zoology | Manipal School of Life Sciences, Manipal | PhD |
| 2018 | 1 | MSc | Applied Zoology | Yenepoya Research Center, Mangalore | PhD |
| 2018 | 1 | MSc | Applied Zoology | JNCSR, Bangalore | PhD |
| 2018 | 1 | MSc | Applied Zoology | NITTE, Mangalore | PhD |
| 2018 | 1 | PhD | Applied Zoology | University of Washington, USA | Post-Doctoral Fellow |
| 2018 | 3 | MA | History | Mangalore University | PhD |
| 2018 | 2 | MSc | Physics | MIT Manipal | PhD |
| 2018 | 1 | MSc | Marine Geology | MIT Manipal | PhD |
| 2018 | 1 | MSc | Biosciences | Nitte Deemed to be University | PhD |
| 2018 | 1 | MLISc | Library And Information | Tumkur University | PhD |

| | Science | | |
| --- | --- | --- | --- |
| View File | | | |

## 5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

| Items | Number of students selected/ qualifying |
| --- | --- |
| NET | 36 |
| SLET | 42 |
| GATE | 14 |
| Any Other | 1 |
| View File | |

## 5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year

| Activity | Level | Number of Participants |
| --- | --- | --- |
| Swimming (men and women) | Institution level | 87 |
| Yogasana (men and women) | College Level | 20 |
| Wrestling | University level | 42 |
| Badminton (Men and women) | University level | 258 |
| Chess | University level | 303 |
| Biosynergy | UG and PG level | 198 |
| Kabaddi (men) | Institution level | 180 |
| Powerlifting (men and women) | Institution level | 172 |
| Cross country (men and women) | University level | 275 |
| Athletics | Institution level | 826 |
| View File | | |

## 5.3 – Student Participation and Activities

### 5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

| Year | Name of the award/medal | National/ Internaional | Number of awards for Sports | Number of awards for Cultural | Student ID number | Name of the student |
| --- | --- | --- | --- | --- | --- | --- |
| 2018 | Silver medal in Weightlifting Women (category 49 kg) | National | 1 | 0 | DBM18536 | Gursale Dipali Dattatraya |
| 2018 | Bronze medal in Weightlifting women (category 71 kg) | National | 1 | 0 | 171061949 | Lavanya R.Rai |
| 2018 | silver medal in W | National | 1 | 0 | 171061944 | Bhavishya |

| | eightliftng women (category +87 kg) | | | | | |
|---|---|---|---|---|---|---|
| 2018 | Silver medal in W eightlifting Men (Category 89 kg) | National | 1 | 0 | DBM18524 | Gursale Siddharth Dattatraya |
| 2018 | Bronze medal in Weight Lifting Men (Category +109kg) | National | 1 | 0 | 171062471 | Kushal Gowda K.V. |
| 2018 | Gold medal in Best Physqiu Men (Category 85kg) | National | 1 | 0 | JMC18188 | Swaroop M. Bangera |
| 2019 | Bronze medal in P owerlifting (Category 74Kg) | National | 1 | 0 | 155870202 | Jackson Colwin D'souza |
| No file uploaded. | | | | | | |

5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Each academic year, student class representatives are selected through class level elections among the PG students. The selected class representatives are assigned duties like student-faculty communication and internal department announcements. Discussion takes place among students about proposed academic and co-curricular activities and it is reported to the faculty for needful incorporation. The student representatives interact with classmates regarding planning of events such as organising Fresher's Day, cultural activities, education tour, farewell functions, etc. Along with staff members, the class representatives are actively involved in maintenance of classroom and laboratory requirements. The representative also has a role in maintaining discipline among the students in the classroom and the department. Class representatives of the various departments elect the campus student council. This election process is carried out by a body comprising of faculty members and the student welfare officer. The student council office bearers, such as President and General Secretary as also Secretaries for various academic cultural and sports activities, are elected through voting amongst the class representatives. The student council office bearers actively engage in conducting events like student council inauguration, cultural meet, campus-fest and various sports events. Council representatives are assigned duties along with the faculty in various organising committees. During campus programmes, they are included as members and volunteers for various committees such as reception, stage, food, accommodation, transportation and publicity. During meetings of campus administrative bodies such as the Advisory committees for

sports, canteens, hostels, cultural events and national festival celebrations too, student representatives actively participate as members. Student representatives are also involved as members in student welfare bodies like the Anti-ragging Cell, SC/ST Cell, SPARSH, etc. With all these responsibilities, class representatives and student council members imbibe leadership qualities, sense of social responsibility and problem-solving capacities along with academic learning.

## 5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

The Mangala Alumni Association (MAA) came into existence in 2006 with the vision of representing the academic and professional issues of the alumni, faculty, and students of its alma mater. Presently it has a membership of more than 25000 and the number is growing year by year. The Association is a registered body and elects fresh office bearers every year. The executive council of the association meets on the third Saturday of every month to discuss future programmes and implementation. Over the years, MAA has organised a number of Teacher Competency Development Workshops, Soft Skill Training Programmes, Endowment Lectures, Student Counselling Workshops, Voters Awareness Lecture Series, Job Fairs, etc. for the benefit of the students and faculty members of the university and its affiliated colleges. A bus shelter was constructed at the Mangalagangothri campus by MAA with a contribution of INR 7 lakhs. It has, to date, organised two mega get-togethers at Mangalagangothri to reach out to larger sections of the alumni for their participation in strengthening the alumni base of Mangalore University. MAA has been making efforts to set up departmental level alumni associations. There are about 15 department level alumni associations and all of them are actively involved in their respective departmental activities in some way. Most of the department level alumni associations organise programmes relevant to their department activities in association with their respective department staff and students. The Commerce Department Alumni Association has been regularly organising endowment lectures by eminent people. They have initiated the good practice of felicitation of retiring staff members. Earlier, the Chemistry alumni from different walks of life too joined together and felicitated their Professors during their superannuation. The Chemistry Alumni Association also organises endowment lectures every year in the department for the benefit of present students and research scholars. The programmes of Human Consciousness and Yogic Sciences are conducted in different affiliated colleges and other places in association with MAA to spread awareness on Yoga and its positive effects for healthy living. Similarly, all other department associations too effectively contribute to the betterment of the University and the society.

5.4.2 – No. of registered Alumni:

1237

5.4.3 – Alumni contribution during the year (in Rupees) :

0

5.4.4 – Meetings/activities organized by Alumni Association :

17

# CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

## 6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500

A. Preparation for Implementation of Choice-based Credit System at the UG level, for upcoming Academic Year. A Core Committee consisting of several representatives from the constituent and UG College Principals and teachers, representatives of the Teacher's Union, Alumni and present students, along with academic and administrative staff was formed in early 2018. It held several meetings to put together the structure of the CBCS course taking care to keep in view the interests of all stakeholders. Discussions were held to resolve co-ordination issues. A workshop for Principals of all the colleges was then held, along with the Chairmen of all the Boards of Studies to brief them about the structure of the new programmes/courses. The various Boards of Studies met 2-3 times to finalise the new syllabus which also included Electives for the core subjects and an open Elective. Various subject associations held workshops at their stage to help update their respective syllabi. Several meetings of Deans for resolving cross-faculty issues were held with the Vice Chancellor presiding over the same. The Registrar and Deans were also invited by various colleges and some teachers' unions/staff clubs to discuss and debate about the new system. A coordination committee has been formed to look after any changeover issues that come up during its implementation during this year (2019-20). B. As a part of participative management, the University has conducted many programmes by involving the student community and faculty members including the public. Some of the envisaged, notable and useful programmes and also programmes of national importance are being conducted regularly. Mangalore University along with Mangalore University Blood Donor's Group (MUBDG) Dept. of MCJ and Students Council in association with Indian Red Cross Society Mangalore together conducted an Blood Donation Camp in the Health Centre. Similarly, the University has organized Swachh Bharat Abhiyan in every month on the last Saturday and the campus cleaning programme and environmental awareness campaigns are being made during this programme, by involving all the departments on a mandatory basis. Student Council representatives are assigned duties along with the teaching faculty in various administrative committees. During the conduct of campus programs they are made members and volunteers for various committees such as reception, food, accommodation, transportation, publicity, canteen, or stage committees. Students are included as members in bodies such as Academic Council, Sports Advisory Committee, Hostel Advisory Committee, Cultural Committees, and National Festivals Celebration Committee. Students representatives are also involved as members in student welfare bodies like Anti-ragging cell, SC/ST cell, SPARSH, Grievance cell, Womens cell, etc. With all these responsibilities alongside their academic learning the class representatives and student council members get to build up their leadership qualities and problem solving capacities, in addition to developing a keen sense of social responsibility.

6.1.2 – Does the institution have a Management Information System (MIS)?

Partial

## 6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

| Strategy Type | Details |
| --- | --- |
| Examination and Evaluation | To enable quicker announcement of results the Examination and Evaluation process has been automated: online examination application, internal assignment marks submission, admission ticket generation, coding/decoding of answer booklets, result processing and |

| | |
|---|---|
| | declaration, ledger sheet generation and finally, direct verification system of marks sheets/certificates of any candidates. Each department/college submits internal assessment and practical exam marks online. This process enables us to speed up the processing and announcement of results. To increase the security features of marks cards and degree certificates issued, characteristics such as non-tearable, water-proof, chemical-proof and fire-proof have been introduced. |
| Admission of Students | • Open House to showcase the courses, facilities, and infrastructure available in the University • Social media campaigning about the activities of the University • Several departments are organizing technical and cultural fests for UG students to provide a chance for them to visit and explore opportunities in University. • Strengthening of the Alumni association to evolve goodwill ambassadors for increased admissions |
| Human Resource Management | Mangalore University has focused its vision on cultivation of quality human resources. In order to implement the different functions of the university the following strategies are practised. Every employee has a defined job role. The recruitment and selection processes are systematic and as per the government regulations. The compensation and reward policy is followed with discipline. The performance of staff is assessed using the feedback from students and this evaluation of performance is intimated to the staff. This helps improve performance of staff from which in turn the university benefits. There is no room for discrimination of any kind. |
| Research and Development | • Establishment of several MoUs between University and Industry/Research organizations • Incentives to faculty members and research students to participate in conferences, workshops, and seminars • Motivation of faculty members to submit research proposals to various funding agencies • Motivation of faculty members to take up collaborative research with the faculty members/researchers of other Universities/Research organizations |
| Curriculum Development | • Focus on updating curriculum |

| | |
|---|---|
| | periodically – yearly, if need be • Requirement of Industries/Research organization is taken into account while framing the syllabus in departments • Several MOUs between University and Industries/Research organizations are established • As part of the MOU, faculty members and research students are encouraged to visit Industries/Research organizations to know about the latest technologies and research developments. • Several departments have included/invited at least one expert member from Industries/Research organizations in concerned BOS and have taken their suggestions into consideration while framing the syllabus • Open Electives across disciplines are offered |
| Teaching and Learning | The syllabus and time-table are made available to the students in advance every semester. Daily monitoring of conduct of classes is done by the Chairpersons. Regular faculty meetings are held to review the course delivery and student learning process. Feedback from students is used to take corrective measures to improve the teaching-learning process. The student feedback collected by IQAC is analyzed and the analysis reports of the faculty members are reviewed in person by the Vice Chancellor for evolving corrective measures. Every academic year, the University prepares the academic calendar, a schedule which is strictly adhered to. |
| Library, ICT and Physical Infrastructure / Instrumentation | The University Library has been automated using Libsys4. It has switched over to the universal and user-friendly open source automation software KOHA, enabling all libraries under the University to have a common database. It provides remote access to all E-Resources through Ez-proxy. It is in the process of creating a 24x7 reading hall for its users. It has an ambitious plan to provide preloaded E-readers like Kindle to the users. It plans to create a digital library of rare manuscripts, books, dissertations and theses. Separate information resource centres for competitive examinations and for the visually challenged are planned. |
| Industry Interaction / Collaboration | Our students are shaped to be job-ready through collaboration with industry. |

| | For instance, R and D programmes were set up with Bhabha Atomic Research Centre (BARC), Board of Research in Nuclear Sciences (BRNS), and the Board of Radiation and Isotope Technology (BRIT) in the field of radioisotope applications. This resulted in the establishment of Centre for Application of Radioisotopes and Radiation Technology (CARRT) and Centre for Advanced Research in Environmental Radioactivity (CARER). The Canara Chamber of Commerce too has been an integral part in many conferences held by the university. Many "Job fairs" have been organised for the benefit of our students. |

6.2.2 – Implementation of e-governance in areas of operations:

| E-governace area | Details |
| --- | --- |
| Planning and Development | E-governance is the primary tool to facilitate the access of students and stakeholders to various necessary and sufficient services of higher education.  Mangalore University has adopted this tool since 2014 for various activities such as notification, registration, admission, student information, attendance, library, salary and expenses, examinations, performance, grades, hostels, security and reports in order to strengthen the University's administration and management. Integration of ICT helps to enhance transparency, reduce delays, and tone up the overall administration of the University. |
| Finance and Accounts | Implementation of e-governance in Finance and Accounts are as follows: • Using Tally for day to day routine work • All Government grants (UGC, ICSSR) through PFMS. • Salaries through HRMS. • Online Tax payments and issue of Form 16. • GST/Overseas payments for Ph.D. Thesis valuation and GIAN Course |
| Student Admission and Support | The academic section is made ICT enabled through online approval of the students' admission. The colleges and various department students data is sent to the university through an interface and the data is made available to the academic section staff. The staff verifies details at various levels keeping the guidelines for admission and approval is given online. This entire process is made |

| | | |
|---|---|---|
| | | online and the links, as well as a screenshot of the online admission process, is given below: http://52.77.88.220:9090/home/authenticate?ReturnUrl2f |
| Examination | | The examination process is completely automated and the list of various e-governance activities are given below: • Online Examination Application • Online Internal Assignment Marks Submission • Computerized Examination Admission Ticket containing student photo, subject and exam date etc., • Computerized Coding Decoding of Answer Booklets using Bar Codes • Computerized Result Processing and Result Hosting on University website • Preparation of Computerized Marks Card and Ledger sheet • Preparation of computerized students' convocation eligibility list • Issuing Non tearable, Water-proof, Chemical-proof and Fire-proof Degree Certificates. The screen shots and the links are given below for various e-governance activities: http://52.77.88.220:9090/home/authenticate?ReturnUrl2f |
| Administration | | Approval of student admissions by the administration has been made online. This enables communication of quick approvals to the departments/colleges and smoothens the admission and other processes for all students. Due to the implementation of the Choice Based Credit System, the student community can opt online for their choice of open elective through online counseling. E-governance has been adopted in most sections of the administration for smooth functioning of the system. Financial transactions too have been automated to have transparency in administration. |

## 6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

| Year | Name of Teacher | Name of conference/ workshop attended for which financial support provided | Name of the professional body for which membership fee is provided | Amount of support |
|---|---|---|---|---|
| 2019 | Dr. Chandru Hegde | International Conference in Mathematics and Applications, Bangkok | Mangalore University | 60000 |
| 2019 | Dr. B.S Srinath | X International | Mangalore | 60000 |

| 2019 | Prof. Balakrishna Kalluraya | VI International Conference of Indian Council of Chemists | Mangalore University | 60000 |
| conference on Material for Advanced Tech. Singapore | University | | | |

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6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

| Year | Title of the professional development programme organised for teaching staff | Title of the administrative training programme organised for non-teaching staff | From date | To Date | Number of participants (Teaching staff) | Number of participants (non-teaching staff) |
| --- | --- | --- | --- | --- | --- | --- |
| 2018 | Workshop on Cargo and Logistics-FMKMC(Grant- INR 15000/-) | - | 09/10/2018 | 09/10/2018 | 21 | 0 |
| 2019 | International Yoga Workshop (Grant-INR 2,50,000/-) | - | 28/01/2019 | 30/01/2019 | 40 | 26 |
| 2019 | A workshop on Tulu Movie Paddayi (Grant-INR 24500/-) | - | 16/02/2019 | 16/02/2019 | 20 | 0 |
| 2019 | Advances in Commerece and Social Innovation (Grant-INR 100000/-) | - | 22/02/2019 | 23/02/2019 | 311 | 0 |
| 2019 | A Two Days workshop on Research in History (Grant- INR 15,000/-) | - | 02/03/2019 | 03/03/2019 | 40 | 3 |

| 2019 | National level Workshop on Swachh Bharath and Sustainability Development Goals (Grant-INR 150000/-) | - | 29/03/2019 | 30/03/2019 | 14 | 20 |
|------|-----|-----|------------|------------|-----|-----|

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

| Title of the professional development programme | Number of teachers who attended | From Date | To date | Duration |
|-----|-----|-----|-----|-----|
| GIAN - Global sourcing strategies and applications, Mangalore University | 1 | 11/02/2019 | 16/02/2019 | 6 |
| Refresher course in Advances in molecular biology, IISc Bangalore | 2 | 28/01/2019 | 10/02/2019 | 14 |
| UGC sponsored refresher course, University of Mysore | 2 | 03/01/2019 | 25/01/2019 | 23 |
| Workshop on Matrix analysis and game theory, Manipal academy of higher education | 1 | 10/12/2018 | 21/12/2018 | 12 |
| UGC - Sponsored Refresher Course, Kannur University | 1 | 08/11/2018 | 28/11/2018 | 21 |
| Workshop on recent trends in mathematics, Dept of mathematics, Mangalore university | 1 | 05/10/2018 | 06/10/2018 | 2 |

| | | | | |
|---|---|---|---|---|
| Orientation programme, University of Kerala | 1 | 04/09/2018 | 01/10/2018 | 28 |
| UGC – Sponsored Refresher Course, University of Kerala | 1 | 27/07/2018 | 16/08/2018 | 20 |
| Workshop on molecular phylogenetics, Centre for ecological sciences, IISc, Bengalore | 1 | 01/08/2018 | 05/08/2018 | 4 |
| National seminar on Rejuvenation of undergraduate education in india, CESS | 1 | 10/08/2018 | 11/08/2018 | 2 |
| | | View File | | |

6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

| Teaching | | Non-teaching | |
|---|---|---|---|
| Permanent | Full Time | Permanent | Full Time |
| 0 | 0 | 0 | 0 |

6.3.5 – Welfare schemes for

| Teaching | Non-teaching | Students |
|---|---|---|
| Medical Facilities. Facilities to pursue research/higher studies. Fitness centre for health. | Medical Facilities. Training programmes in administrative matters. | Online learning facilities. Counselling. Secure campus with surveillance system. Hygienic hostel and canteen facilities. |

## 6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

The internal auditing includes checks and measures of various documents starting from lower level clerical staff up to the finance officer. In this process, if there are clarifications, the documents will be sent back to the concerned department to provide additional required information. Subsequently, upon satisfactory submission of relevant documents, an approval is given to release the payment. The university external audit works are regularly conducted by government auditors. Apart from verification of documents related to recruitment process, utilization of funds obtained from government under different heads, developmental works executed by the university, etc. are looked into, by them.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

| Name of the non government funding agencies /individuals | Funds/ Grnats received in Rs. | Purpose |
|---|---|---|
| Nil | 0 | Nil |
| No file uploaded. | | |

6.4.3 – Total corpus fund generated

| 0 |
|---|

## 6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

| Audit Type | External | | Internal | |
|---|---|---|---|---|
|  | Yes/No | Agency | Yes/No | Authority |
| Academic | Yes | Committee with External members | Yes | Committee with Internal members |
| Administrative | Yes | Committee with External members | Yes | Committee with Internal members |

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

The University has in place a statute for granting autonomy to colleges which may apply for the same. There are 5 autonomous colleges at present. The University encourages colleges which perform well to prepare themselves for autonomy.

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

Nil

6.5.4 – Development programmes for support staff (at least three)

1. Fitness Program 2. Awareness camp on "maintaining a clean and hygienic workplace." 3. Yoga classes/courses throughout the year. 4. Computerization of administration. 5. Yearly cultural activities and competitions.

6.5.5 – Post Accreditation initiative(s) (mention at least three)

1. Annual Quality Assurance Report (AQAR) to NAAC 2. Academic Administrative Audit (AAA) 3. UI Green Metric World University Ranking 4. Participation in EQUAMBI

6.5.6 – Internal Quality Assurance System Details

| a) Submission of Data for AISHE portal | Yes |
|---|---|
| b)Participation in NIRF | Yes |
| c)ISO certification | No |
| d)NBA or any other quality audit | Yes |

6.5.7 – Number of Quality Initiatives undertaken during the year

| Year | Name of quality initiative by IQAC | Date of conducting IQAC | Duration From | Duration To | Number of participants |
|---|---|---|---|---|---|
| 2018 | Constitution of the Committee | 14/06/2018 | 14/06/2018 | 14/06/2018 | 14 |

| Year | | | | | |
|------|------|------|------|------|------|
| | for Open House | | | | |
| 2018 | One day workshop on Objective Structured Clinical Examination/Objective Structured Practical Examination | 15/09/2018 | 15/09/2018 | 15/09/2018 | 139 |
| 2018 | Academic and Administrative Audit | 09/10/2018 | 09/10/2018 | 11/10/2018 | 25 |
| 2018 | Establishment of Environmental Audit Committe | 12/10/2018 | 12/10/2018 | 12/10/2018 | 18 |
| 2019 | Workshop on preparation of Self Study Report | 18/03/2019 | 18/03/2019 | 18/03/2019 | 70 |
| 2019 | Special lecture on NAAC Accreditation for Non-teaching staff and Guest Faculty | 08/05/2019 | 08/05/2019 | 08/05/2019 | 260 |
| No file uploaded. | | | | | |

# CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

## 7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

| Title of the programme | Period from | Period To | Number of Participants | |
|------|------|------|------|------|
| | | | Female | Male |
| Gender Sensitization Workshop - Inequality, Patriarchy and Violence against Women | 27/11/2018 | 27/11/2018 | 16 | 19 |
| Gender and Nature Workshop | 28/11/2018 | 28/11/2018 | 97 | 41 |
| Special Lecture : Issues, Problems and Challenges of | 03/12/2018 | 03/12/2018 | 625 | 175 |

| | | | | |
|---|---|---|---|---|
| Sexual Minorities in India | | | | |
| Women and Cyber Security Workshop | 21/02/2019 | 21/02/2019 | 29 | 20 |
| Gender Sensitization Workshop | 12/03/2019 | 12/03/2019 | 31 | 21 |
| Gender and Media Workshop | 13/03/2019 | 13/03/2019 | 43 | 17 |
| Gender and Media Workshop – Gender Socialization and Social Construction of gender | 14/03/2019 | 14/03/2019 | 31 | 25 |
| Dialogue on Gender Sensitization- A Workshop | 26/03/2019 | 26/03/2019 | 27 | 23 |
| Workshop on Self-Defence | 08/03/2019 | 08/03/2019 | 428 | 234 |

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

| Percentage of power requirement of the University met by the renewable energy sources |
|---|
| 1. Solar energy 2. Biogas plant 3. LED bulbs/power-efficient equipment Percentage of the power requirement of the University met by the renewable energy sources: The university has a solar energy source generating 361290 kWh of power every year. In addition to this, there are 210 nos. of 24 watt solar street lights, 222 nos. of solar corridor lights, and 100 nos. of 20 watt designer street lights (for Double Road on the campus) generating 60.48 kWh, 13.32 kWh and 24 kWh respectively per year. A biogas plant in the hostel generates the power of 1277.4 kW per year. Altogether, 362665 kWh of power is generated (15.67 percent of the overall power consumption of the campus) every year by the renewable energy sources. |

7.1.3 – Differently abled (Divyangjan) friendliness

| Item facilities | Yes/No | Number of beneficiaries |
|---|---|---|
| Physical facilities | Yes | 8 |
| Provision for lift | Yes | 8 |
| Ramp/Rails | Yes | 8 |
| Rest Rooms | Yes | 3 |
| Scribes for examination | Yes | 3 |

7.1.4 – Inclusion and Situatedness

| Year | Number of initiatives to address locational advantages | Number of initiatives taken to engage with and | Date | Duration | Name of initiative | Issues addressed | Number of participating students and staff |
|---|---|---|---|---|---|---|---|

| and disadvantages | contribute to local community | | | | | | |
|---|---|---|---|---|---|---|---|
| 2018 | 1 | 1 | 05/12/2018 | 60 | Construction of Footpath | Proper pathway for pedestrians | 0 |
| 2018 | 1 | 1 | 02/07/2018 | 365 | Research studies on Biodiversity expecially on Medicinal plants and endangered species of flora and fauna | Endangered species of flora and fauna | 150 |

**No file uploaded.**

7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

| Title | Date of publication | Follow up(max 100 words) |
|---|---|---|
| **No Data Entered/Not Applicable !!!** | | |

7.1.6 – Activities conducted for promotion of universal Values and Ethics

| Activity | Duration From | Duration To | Number of participants |
|---|---|---|---|
| Bhakthi Parampareya Lokayana Mattu Kanakadasaru : Samakaleena Samvada (Contemporary Views on Kanakadasa and the Bhakthi tradition) | 28/11/2018 | 28/11/2018 | 150 |
| Kanaka Keerthana- Recital of Kanakadasa's Keerthanas (Lyrics/Songs) | 09/02/2019 | 09/02/2019 | 80 |
| Guru Sandeshada Sarvakalika Prastutate (The Eternal Relevance of Narayana Gurus Teachings) | 14/02/2019 | 14/02/2019 | 300 |
| Vachana Sahithyakke Ambigara Chowdaiahnavara Koduge (The Contribution of Ambigara Chowdaiah to Vachana | 22/02/2019 | 22/02/2019 | 90 |

| | | | |
|---|---|---|---|
| Literature) | | | |
| Ambigara Chowdaiahnavara Vachanagalalli Sama Samajada Ashaya (Theme of Equality in Ambigara Chowdaiahs Vachanas ) | 22/02/2019 | 22/02/2019 | 75 |
| Personality Development-Narayana Gurus Perception | 07/08/2018 | 07/08/2018 | 71 |
| Life and Literary works of Narayana Guru | 10/08/2018 | 10/08/2018 | 91 |
| Upanishathdaare (The message of the Upanishads)-Sri Narayana Guru | 18/08/2018 | 18/08/2018 | 68 |
| Nutrition Education Program | 30/10/2018 | 30/10/2018 | 24 |
| Visits to White Doves - House for Destitutes | 09/11/2018 | 09/11/2018 | 75 |

[View File](#)

7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

- Students and research scholars are encouraged to use bicycles to move around in the campus, including commuting between hostels and departments and also to move about in the campus. Some faculty members in the Departments use eco-friendly electric scooters which are pollution-free.

- Most buildings have green spaces with shrubs, trees and vegetation. The green cover extends around the building fully. A wealth of faunal biodiversity, particularly birds and insects thrive in these green pockets. This is a source of Oxygen and serves as a Carbon sink. Students therefore have the opportunity to learn in an eco-friendly ambience and in the midst of nature.

- Green practices include a plastic free campus: plastic water bottles are banned for campus programs. Plant/tree saplings are presented to distinguished guests, only materials which can be recycled and biodegradable are used. About 8000 fruit trees have been planted within the campus. 300 other plants have been planted in some locations, and individual students are allotted the care of these saplings. A lawn is maintained and flowering plants too are grown. A small garden is maintained by students in hostels. Films on various social issues are screened. A separate botanical garden of medicinal plants has been established wherein research scholars and students obtain samples for their study and research.

- In the Department, E-governance is implemented as much as possible to minimize paper wastes. Much of the communication between the University administration and Department, including notices, circulars, etc.is through E-mail only. The Department has independent email addresses (one is of the University and the other one Gmail) for speedy and paperless communication.

- The University organises 'Swacchatha Abhiyan Divas' on the first working day

of every month in the campus through the NSS unit. All the teaching, non-teaching faculties, students and research scholars are actively involved in this mission.

- Plantation and maintenance of garden: In collaboration with the Forest department of the Govt. of Karnataka, the university has planted various tree species on the occasion of Vanamahostava and Environmental Day celebrations. Apart from beautifying the campus such planting enriches quality of air and helps in destroying harmful microorganisms. Plantation lichen diversity is also increased. The Mangalagangothri Campus has many eucalyptus trees which enhance the underground replenishment of water. The rocky and infertile soil is thus made fertile to enhance the growth of other plants.

## 7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

Best Practice 1: Title of the Practice: Use of Street Play and Role Play as part of community outreach programs in Social Work. Objectives: • To give proper guidance based on Social Work practice to develop rapport with the local community and work with them. • To enhance student networking and collaboration with other NGOs or Welfare agencies. • To develop understanding of social issues and inculcate skills in students. The Context: The practice was initiated in order to give proper guidance to our PG students of social work in organization of community outreach programmes for advancing social justice through mutually transformative community-university partnerships. These outreach programmes give young people a chance to meet the community and are often the first step to access help. People in trouble can be supported and put in touch with the services they need. This practice has successfully served the community directly through organization of activities, consultation and resource mobilization at local levels. The group presenting street plays collected strong and live audiences through its gripping narratives. The role playing exposed students to different ways of thinking about a situation, expanded their ability to resolve situations and provided contextualized experience. Both these programmes have contributed to community awareness and understanding of health issues and enabled community participation. The Practice: Through the community outreach programs which include street plays, psychodrama and role-play, Social Work students make vital contact and connections with people living in the nearby villages. There has been a long history of poor living conditions, illiteracy and ill health in the neighbourhood, and this practice was initiated as part of 'civic responsibility', to give back to our communities, and help the local populace. The characterization and scope of community programs for people is vast and complicated. At the most basic level, "these programs are semi-structured processes, most often led by adults and designed to address specific goals and youth outcomes. This category incorporates a range of programs from those that are highly structured, often in the form of curriculum with step-by-step guidelines, to those that may have a looser structure". They may be called after-school programs, youth programs, youth activities, community programs, extracurricular activities, or programs during out-of school time. The field practicum gives students the opportunity to take on professional roles in order to learn skills, render services and participate in the provision and development of social work service. The hands-on experience reinforces the student's identification with the purpose, values and ethics of the profession fosters the integration of empirical and practice-based knowledge and promotes the development of professional competence. Evidence of Success: Community activities give students the chance to apply the skills they already have. Volunteer work and community activities are also great opportunities to show initiative and develop skills to get a suitable job. Being able to manage free time while balancing leisure, work and study is an important life skill. Being

part of community activities could motivate students to be more organised and manage their personal time well. Community outreach programs that focus on supportive relationships provide settings in which the community people feel a strong sense of warmth, closeness, caring, support, and get guidance from leaders. These programs provide opportunities to expose young people to caring adults who challenge and encourage them to participate in positive experiences, and respect their opinions. Youth respondents to the community impact survey indicated that they desire and require guidance from adults. The best practice also has a positive impact on academic abilities and brings about attitudinal changes among Social Work students. Problems Encountered and Resources Required While designing this practice, • Some reserved and diffident students were initially hesitant to cross their academic borders affecting the successful conduct of awareness programmes. • Organizing various programmes during working hours, sometimes, has led to dilution/less attention to classwork. • Implementation of the annual plan and its monitoring has become a tough task in view of tight academic schedules. • Lack of co-operation from locals and political undercurrents. Best Practices 2: Title of the Practice "Reaching Out: Strengthening the Life of Specially Abled Students". Objectives of the Practice: The practice aims at initiating the specially-abled students of the Mangalore University region into sports and physical education activities. These students are encouraged to perform physical activities and to participate in competitive sports. Sports programs of the Department of Physical Education help a great deal to improve the lifestyle of children with special needs: they increase competency in gross motor skills, help to control obesity, improve self-esteem and social skills, encourage an active lifestyle, and maintain motivation in various areas of life. The Context: Mangalore University has made its mark in both national and international level sportscharts. The sportspersons of Mangalore university have brought laurels to the University and their participation at international level has boosted the morale of our students. The special arrangements for differently abled students across the districts has encouraged Mangalore University to accommodate and provide an excellent sports program for specially abled students representing various special schools in the Mangalore University region. Since many individuals with disabilities are not aware of adaptive sports programs, there is a need for introductory programs that expose young individuals with disabilities to various sports activities, which can benefit them physically and emotionally, and help them understand that participating in physical activity improves their health and wellbeing. The Department of Physical Education has introduced sports activities for individuals with disabilities to foster new experience and self growth. The Practice: Over the years Mangalore University has emerged as a well-known university and has achieved several remarkable positions even in the Sports arena. It has also invested both time and resources to make its sports activities reach every student, and encourage every sportsperson to excel in both academics and sports. This practice is an attempt to make sports not as a hobby, but integral to life for students in general and differently abled students in particular. Sports is now becoming more common in medical treatment, complementary to conventional physical treatment methods. Workout methods programmed in accordance with disability and age of specially abled children contribute to their social adaptation and psychological well-being. Participation in sporting activities decreases loneliness levels of special children and so, special children should be encouraged more to take part in sports activities. Additionally, independent movement skills can be developed among special children through sports for which they should participate in sports activities more frequently. Parents of special children are also encouraged during sports programs to facilitate their children's participation in sports. Additionally, separate sports activities are organized for special children during Mangalore University inter-collegiate sports activities in order to increase their motivation and adaptation to society. Among the long-

term objectives of activities for children who need special education are developing a positive sense of self, social competence, motor skills, physical and motor fitness, free-time skills, game skills and creative expressions, and elimination of anxiety. Sports programs are organized, especially considering the disabilities of children. Sports education is thus a necessary and important educational method for special children. Evidence of Success: Sports activities are the mainstay to keep fit and for maintenance of health for all people with and without disability. Clear evidence exists on the benefits of sports/physical education among various populations with physical disabilities. However, the potential benefits of organized sports for people with physical disabilities are not as well explored. The current evidence regarding the impact of organized sports on activity, participation, and quality of life in people with physical disabilities of all ages has been notable. The facilitators of and barriers to participation in sports for this population are identified and necessary arrangements to overcome them have been made. Five hundred and seventy six (576) special students have participated in the sports activities during this academic year i.e., 2018-19. All the participants enjoyed the activities and the teachers of the concerned schools appreciated the efforts of the Department of Physical Education, Mangalore University in this respect. Problems Encountered and Resources Required: 1. Shortage of trainers specialized in dealing with the differently abled. 2. Mass support is yet to be received from all sides. 3. Peer group socialization is yet to be achieved. Quality physical activity is a must for everybody to develop and advance in today's fitness-driven world. Most of the current physical activities are oriented towards the use of total body parts. Hence, individuals, who are physically disabled, experience various challenges when acquiring the skills needed for such activity. These can be resolved by the use of technologies, materials, devices and equipment. The availability of human assistance in making them understand the concepts and partake in such activity is vital, as for instance, the challenges experienced by teachers working with visually impaired students or aurally challenged students.

| Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link |
| --- |
| https://mangaloreuniversity.ac.in/sites/default/files/2020/7.2.1-Best-Practices-of-the-institution.pdf |

### 7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

The vision of our university is to evolve as an international centre for advanced studies. To augment and strengthen this, research in frontline areas is being undertaken by the researchers of the university with the financial support of national and international funding agencies. European Studies under Erasmus Jean Monet module based in the Department of Political Science, a major research project in the Department of English and the programs organised through the Centre for Advanced Studies scheme in the S.V.P. Institute of Kannada Studies are a few instances of the research conducted in Humanities during 2018-19. The Centre for Advanced Research in Environmental Radioactivity (CARER), Centre for Application of Radioisotopes and Radiation Technology (CARRT), and Microtron Centre are the three centres on the campus which are actively involved in research activities in the field of Radiation Physics and allied sciences. These centres serve as national Centres of Excellence to cater to the needs of the researchers with funding from BRNS, BARC, DAE, DST, UGC, etc. All three centres are unique in the country in their own way and are involved in advanced research in the field of Radiation Protection, Radioecology, Radiation effects on functional materials, Radiation processing,

Radiobiology, development of new techniques for radiation measurements and some studies in Nuclear Physics. The studies are being carried out in collaboration with sister universities of the region, national laboratories and a few international research centres through established memorandums of understanding. One of the centres, CARER, has established four memoranda in the year 2018-19 with the National Institute for Radiological Sciences Japan, Horosaki University Japan and Lund University Sweden. The research publications that have emerged as a result of in-depth research programs have helped the university to get recognised under PURSE program of DST, Govt of India with funding for establishing special laboratories for researchers on and off the campus. The facility established under this program has sophisticated research equipment such as Single Crystal X-ray diffractometer, Liquid Chromatography Mass Spectrometer, Amino Acid Analyser, FESEM, Energy Dispersive Spectrometer, Simultaneous DSC-TGA, RF /DC magnetron Sputtering Unit, UV-Vis Spectrophotometer, Cryogenic Workstation, Logic Analyser and other equipment for research in Molecular Biology. The University shares its knowledge with the neighborhood community through the publication wing "Prasaranga" by arranging a series of lectures and publishing books on current issues. Workshops and training programs on issues like gender equity, women empowerment are also organised by the Centre for Women's Studies. The Yakshagana Study Centre regularly arranges lectures and workshops, and honours senior Yakshagana artists besides training students from the neighbouring schools. The emphasis on research and extension thus builds up on all fronts – science, arts and culture, to produce well-rounded personalities to contribute to nation building.

| Provide the weblink of the institution |
|---|
| https://mangaloreuniversity.ac.in/sites/default/files/2020/7.3.1-Performance-of-the-institution-in-one-area-distinctive-to-its-vision,priority-and-thrust.pdf |

## 8.Future Plans of Actions for Next Academic Year

Our vision is to create a conducive environment for inter-disciplinary learning and advanced research, address global and regional challenges and needs of the higher learning system, build additional infra-structure befitting a world class University and provide access and support to talented students from all sections of the society. The University envisions developing into a robust platform for students, researchers and teachers to pursue their academic goals and career in a beneficial ambience. Strategic plans have been developed to ensure steady growth and to strengthen our departments which have made significant achievements, and simultaneously take-up phase-wise development of other departments with additional infrastructure support, faculty and research students. The existing research centres will be taken to the next level of research, thus improving their visibility at national and international levels. We are now taking up collaborative projects with nearby institutions like Yenepoya and Nitte Universities. Our University has already introduced an innovative and comprehensive sports policy for the first time in the state, which it will pursue for preparing champions at both national and international levels through the operation of this policy. A fully automated University Administration System including students, faculty, and examination portals is being established through a Campus Management System. The University is in the process of building up a centralized Data Centre which will go a long way in furthering documentation required for Assessment, Accreditation and Ranking and other official/governmental purposes. An Incubation cell to encourage startups and a Skill Development Cell are also on the anvil. Several Skill Development Programs are being made available as short term courses of a week's / fortnight's duration. Efforts to upgrade the campus to be green and eco-friendly have been stepped up and the University has recently secured the second place in the country for The UI GreenMetric World University Ranking. The University will make

every effort to foster more national and overseas collaboration for research and attempt to attract international students from both developed and developing countries through twinning programs. The PG Centre at Chikkaluvara and the constituent colleges will be strengthened in terms of faculty, library, sports and other basic infrastructure facilities.