



**INSTITUTIONAL ASSESSMENT AND ACCREDITATION
(Effective from July 2017)**

Accreditation - (Cycle - 4)

**PEER TEAM REPORT ON
INSTITUTIONAL ACCREDITATION OF
KARNATAK SCIENCE COLLEGE
C-35555**

**Dharwad
Karnataka
580001**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bengaluru - 560 072, INDIA**

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Section I: GENERAL INFORMATION

1. Name & Address of the institution:	KARNATAK SCIENCE COLLEGE Dharwad Karnataka 580001	
2. Year of Establishment	1958	
3. Current Academic Activities at the Institution (Numbers):		
Faculties/Schools:	0	
Departments/Centres:	10	
Programmes/Course offered:	8	
Permanent Faculty Members:	45	
Permanent Support Staff:	54	
Students:	1955	
4. Three major features in the institutional Context (As perceived by the Peer Team):	1. The College is housed in a spacious terrain with lots of green cover. It has enough buildings and open ground. 2. The percentage of girl students is more compared to that of boys. 3. The institution is a constituent college of the Karnatak University, Dharwad.	
5. Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	Visit Date From : 03-10-2024 Visit Date To : 04-10-2024	
6. Composition of Peer Team which undertook the on site visit:		
	Name	Designation & Organisation Name
Chairperson	DR. SUHAS PEDNEKAR	Former Vice Chancellor, UNIVERSITY OF MUMBAI
Member Co-ordinator:	DR. P MADHAVA SOMA SUNDARAM	Former Professor, Manonmaniam Sundaranar University
Member:	DR. RAJEEV MATHUR	Vice Chancellor (VC), MADHAV UNIVERSITY
NAAC Co - ordinator:	Dr. Priya N	

Section II: CRITERION WISE ANALYSIS

Observations (Strengths and/or Weaknesses) on each qualitative metrics of the key Indicator under the respective criterion (This will be a qualitative analysis of descriptive nature aimed at critical analysis presenting strength and weakness of HEI under each criteria)

Criterion I - Curricular Aspects (Key Indicator and Qualitative Metrics(QIM) in Criterion I)	
1.1	Curricular Planning and Implementation
1.1.1 QIM	The Institution ensures effective curriculum planning and delivery through a well-planned and documented process including Academic calendar and conduct of continuous internal Assessment
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	<i>Institution integrates crosscutting issues relevant to Professional Ethics, Gender, Human Values, Environment and Sustainability in transacting the Curriculum</i>
1.4	Feedback System

Qualitative analysis of Criterion 1

The college is a constituent college of Karnatak University, Dharwad, and the College abides by the curricula and syllabi prescribed by the University for all 08 programs (3 UG, 4 PG and Ph.D. Programs). For the smooth conduct of the teaching-learning process, a uniform academic calendar is prepared, which is aligned with all departments. The time-table committee prepares a master timetable and then takes the approval from the IQAC and the Principal. Semester-wise teaching plans, academic diary and syllabus completion reports are made for proper implementation of the curriculum. Different pedagogies like participative and experiential learning along with problem-solving methods are adopted by using ICT tools for effective curriculum delivery. Based on the performance of the students in the first internals, a list of slow learners is prepared and the teachers are directed to conduct remedial classes for such students to strengthen the academic standards of the students and to improve their performance. Respective departments regularly organize the study tours, industrial visits, seminars, debates, quiz competitions and workshops. Sensitizing faculty and students towards all the current issues like professional ethics, gender equality, human values and environment sustainability are well integrated through the curriculum.

Several programs are conducted for women and girl students, such as organizing folk dance competitions and hemoglobin check-up camps etc. The committee for Women's Anti-Harassment and the Internal Committee organize programs on Women's Empowerment, laws for Women and Women's day. The NSS unit of the college has been very pro-active in conducting various extension activities not only on the college premises but also in the neighborhood areas. Major gender issues are focused on and addressed through activities such as the "Save Girl Child" campaign, essay and poster exhibitions and wallpaper presentations

The Indian constitution and human rights are mandatory subjects for BSc/BCA/BSc (CS) students, where human values and the principles of professional ethics are taught. In addition to this awareness campaigns, orientation programs and seminars are conducted to sensitize future leaders to inherit human values and cope with constitutional obligations.



Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrics(QIM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Student Teacher Ratio
2.3	Teaching- Learning Process
2.3.1 QIM	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences and teachers use ICT-enabled tools including online resources for effective teaching and learning process
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1 QIM	Mechanism of internal/ external assessment is transparent and the grievance redressal system is time- bound and efficient
2.6	Student Performance and Learning Outcomes
2.6.1 QIM	Programme Outcomes (POs) and Course Outcomes (COs) for all Programmes offered by the institution are stated and displayed on website
2.6.2 QIM	Attainment of POs and COs are evaluated.
	Explain with evidence in a maximum of 500 words
2.7	Student Satisfaction Survey

Qualitative analysis of Criterion 2

The institution uses different teaching and learning methods, such as project-based, ICT enabled, power point presentations, computer-assisted, experiential, interactive teaching methods and class interaction and lectures. The college has some ICT-enabled seminar rooms, computer labs with internet access to equipped laboratories and Wi-Fi enabled smart class rooms with LCD facility. The teachers provide access to students the learning resources like Digital Library Resources like N-LIST, INFLIBNET etc.

The college provides education through invited lectures, seminars, training, workshops and orientation programs. These activities aid in achieving a set academic goals, program outcomes and course objectives. During the assessment years (from 2018-19 up to 2022-23), the college has adopted some experiential learning methods like invited lectures, seminars, training workshops and orientation programs. Participatory learning among students is facilitated through innovative components in their modular assessing panel, such as group discussions, quizzes, poster presentations, games, simulation exercises, debates and demonstrations. Students are encouraged to participate in role play activities, such as group discussion, wall papers, projects, quiz, poster presentation, one act play, mime, drama, mimicry, dance, singing, rangoli and mehndi, where they can use their specialized technical or management skills. Students take up mini research projects to apply theoretical knowledge and enhance technical skills and are guided by the concerned teaching staff.

Regarding the evaluation, college has an internal assessment procedure that ensures effective conduct of internal examinations. It has developed a meticulous process to handle complaints pertaining to internal examinations. An Internal Examination Committee is formed at the institute level to address matters pertaining to the assessment process. If students have any grievances, teacher provides them evaluated answer scripts. Teacher addresses the grievances, errors in the question paper and mark distribution.

The Faculty Mentor guides the underperformed students and slow learners. Subsequently, remedial classes are conducted for them. The program and course outcomes for all programs offered by the institution are stated, displayed on the college website and communicated to teachers and students, which is a critical component of effective educational management and student engagement.

End semester examination are conducted with the question papers from the K.U.Dharwad and monitored by a nominated Chief Superintendent at the institution level.

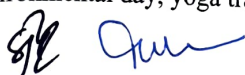
The institution communicates the POs and COs by displaying them on the institution's website, accessible to students, parents, and prospective students. 20% of students were randomly selected from each combination to calculate the programme outcome. The overall Attainment for a course is sum of 20% of Internal Assessment Test Attainment Level and 80% of University Attainment Level.

Criterion3 - Research, Innovations and Extension (Key Indicator and Qualitative Metrics(QIM) in Criterion3)	
3.1	Resource Mobilization for Research
3.2	Innovation Ecosystem
3.2.1 QIM	Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident
3.3	Research Publications and Awards
3.4	Extension Activities
3.4.1 QIM	Outcomes of Extension activities in the neighborhood community in terms of impact and sensitizing the students to social issues for their holistic development during the last five years.
3.4.2 QIM	Awards and recognitions received for extension activities from government / government recognised bodies
3.5	Collaboration

Qualitative analysis of Criterion 3

The institute facilitates the creation and transfer of knowledge for students, teachers and research scholars by giving scope and a platform to develop their ideas and network with each other as well as some experts in different fields. The institute has organized lectures and seminars on entrepreneurship development and the Intellectual Property Rights (IPR), to provide the staff members and students with the necessary knowledge and expertise to nurture creativity and innovate. To encourage young teachers to take up research work, the institute has utilized a program by the University to provide seed money to researchers and this has helped them to develop research laboratories and involve students in innovative work, thus inculcating a research culture among the students. The Science Association conducts useful extra curricular activities for students, including celebration of National Science Day, the conduct of quiz, essay competitions and exhibitions, arranging special talks and scientific deliberations with scientists and involving students in various activities to improve their scientific temper and feed their enthusiasm to pursue science. A total of 23 faculty members are recognized as research guides of Karnatak University, Dharwad and in the last 5 years 42 research students have been awarded the Ph.D. Degree under their guidance. Some of the PG and UG students are also beneficiaries of this research culture, as their project work and dissertation are supervised by these recognized Ph.D. guides. Regarding Extension work a significant number of awareness and blood donation camps have been organized with the involvement of students. The students have engaged themselves by taking part in extension programs which have been organized in neighboring villages through awareness services, interaction programs which includes door-to-door visits in villages.

Events were conducted from 2018 up to 2023 like anti-tobacco day, swachha bharat abhiyaan, voters day, world environmental day, yoga training camp, blood donation camp, awareness program on "plastic free





campus", cycle jatha and a state level seminar on occasion of "Azadi Ka Amrut Mahostava", National unity day (Ekata Divas), a program on importance of plantation, world diabetes day walkathon, world diabetes day awareness program, voters awareness jatha and covid vaccination awareness campaign. The college NSS unit has received awards in recognition for the services provided by it like wise an award for the best NSS unit by Karnatak University, Dharwad. Some of the faculty members have extended their services as reviewers (referees) for reputed journals and their services have been appreciated.

Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrics(QIM) in Criterion4)	
4.1	Physical Facilities
4.1.1 QIM	<p>The Institution has adequate infrastructure and other facilities for,</p> <ul style="list-style-type: none"> • teaching – learning, viz., classrooms, laboratories, computing equipment etc • ICT – enabled facilities such as smart class, LMS etc. <p>Facilities for Cultural and sports activities, yoga centre, games (indoor and outdoor), Gymnasium, auditorium etc (Describe the adequacy of facilities in maximum of 500 words.)</p>
4.2	Library as a Learning Resource
4.2.1 QIM	Library is automated with digital facilities using Integrated Library Management System (ILMS), adequate subscriptions to e-resources and journals are made. The library is optimally used by the faculty and students
4.3	IT Infrastructure
4.3.1 QIM	<p>Institution frequently updates its IT facilities and provides sufficient bandwidth for internet connection</p> <p>Describe IT facilities including Wi-Fi with date and nature of updation, available internet bandwidth within a maximum of 500 words</p>
4.4	Maintenance of Campus Infrastructure

Qualitative analysis of Criterion 4

Situated at the core of Dharwad city, the campus spans over 55 acres of land, graced by a captivating natural landscape. With a built-up area of 33,047.74 square meters distributed across 34 exclusive buildings from Science College. The Colleges shares the campus with the Karnatak Arts College and it has separate buildings apart from the 34 building exclusive allotted to the Science College. A few buildings are shared between the Science and Arts Colleges. The college has strategically established independent facilities, equipped with ample physical and academic resources to cater the diverse needs for undergraduate (UG), Post Graduate (PG) and Ph.D. programs. Academic Infrastructure consists of classrooms (35), seminar halls (08), 30 laboratories and 05 museums in the Botany, Geology, Zoology, Geography, and Criminology & Forensic Science. Utilization of solar energy with poles having a capacity of 100 AH, along with LED advantages. There are 04 hostels – 2 for boys and 2 for girls with a total capacity of 600. Shri V. K. Gokak Central Library facility is a storehouse of knowledge for the students. This Central Library shared between Karnatak Science College and Karnatak Arts Colleges, is housed in a two-storied building spanning 3440.52 square meters and operates 24 x 7. It Spacious two reading halls covering an area of 992 square meters, ensuring continuous access to resources. The library is equipped with 1.82 lakh books, 24 journals / magazines, 93,809 e-books and 6,237 e-journals on various disciplines. The library is open for students and teachers to access its facilities from 8 am to 8 pm and a reading room which is opened 24 x 7. The library has ILMS software, EASYLIB "ELIB" 16.2 version, Digital databases and networks Remote access facility for e –resources and webopse Archives for

student's dissertations and faculty publications, N-LIST, Shodhaganga and Shodha-sindhu, ProQuest J Gate, IEEE, McGraw Hill books, Pearson E books. The library also has Disabled friendly, special, and reprographic facilities. The institution has vast outdoor sports ground, offering a diverse range of facilities for cricket, football, basketball, volleyball, kabaddi, tennis, kho-kho, Tenikoit etc. There is some indoor sports facility, featuring table tennis, carom board, chess, badminton, and gymnasium which needs to be strengthened. The College has three computer labs consisting of 252 computers with internet facility, with access to students and teachers. Software like Java, C, C++, SQL and Tally are installed in the computer labs as per the curriculum, and they are updated and maintained by the technicians as and when required. Institute has upgraded Internet connectivity to 300 Mbps speed. There are 28 CCTV cameras installed in the entire campus area of the college, including classrooms, to monitor the activities. This number needs to be increased. The seminar halls of the college need to be well equipped. The college website is monitored and updated from time to time by the Web Coordinator in association with external agencies employed by the college. Most of the departments have computers with internet facility for the preparation of power point presentations as teaching-learning mode, and the same facility is extended to the research scholars of all the department.

Criterion5 - Student Support and Progression (Key Indicator and Qualitative Metrics(QIM) in Criterion5)	
5.1	Student Support
5.2	Student Progression
5.3	Student Participation and Activities
5.4	Alumni Engagement
5.4.1 QIM	There is a registered Alumni Association that contributes significantly to the development of the institution through financial and/or other support services

Qualitative analysis of Criterion 5

The college supports holistic student development with mentorship, grievance redressal, career guidance, anti-ragging, welfare, placement, gymkhana, and science association. There are many government and colleges established scholarships for the benefit of financially challenged students. The institution organises capacity building and skill enhancement activities along with career counselling. The competition examination guidance can be extended to students on regular basis.

07 students secured University Ranks and 07 received Gold medals in different subject during the last years. 188 students are placed in various companies and 1,017 students progressed with their higher education during the last five years. On the extra curricular front 16 students became University blue and 22 won National Level medals in the last five years.

The institution encourages student participation in various committees like IQAC, science association etc.


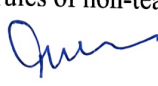
The college has a registered alumni association, namely, Karnatak Science College Alumni Association, Dharwad (KSCAAD), which needs to be strengthened.

Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrics(QIM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QIM	<i>The institutional governance and leadership are in accordance with the vision and mission of the Institution and it is visible in various institutional practices such as NEP implementation, sustained institutional growth, decentralization, participation in the institutional governance and in their short term and long term Institutional Perspective Plan.</i>
6.2	Strategy Development and Deployment
6.2.1 QIM	<i>The institutional perspective plan is effectively deployed and functioning of the institutional bodies is effective and efficient as visible from policies, administrative setup, appointment, service rules, and procedures, etc</i>
6.3	Faculty Empowerment Strategies
6.3.1 QIM	The institution has performance appraisal system, effective welfare measures for teaching and non-teaching staff and avenues for career development/progression
6.4	Financial Management and Resource Mobilization
6.4.1 QIM	Institution has strategies for mobilization and optimal utilization of resources and funds from various sources (government/ nongovernment organizations) and it conducts financial audits regularly (internal and external)
6.5	Internal Quality Assurance System
6.5.1 QIM	Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes. It reviews teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals and records the incremental improvement in various activities

Qualitative analysis of Criterion 6

The institution being a constituent college, the governing council, is chaired by the Vice Chancellor of Karnatak University, and it oversees policies and action plans. The Principal managing both administrative and academic processes, leads faculty in planning, budgeting and policy development.

University authorities, including the principal, engage in general body meetings to align policy with the institute's vision. The Principal collaborates with department heads and senior faculty to develop action plans reviewed through functional committee meetings to assess outcomes. The college now implements the State Education Policy (SEP) providing effective education, flexible curriculum, skill emphasis, technology integration, research focus, multilingualism, teacher training, equitable education and vocational promotion. The perspective plan has been prepared for the next five years which includes accreditation, innovative research, centre of excellence and collaborations for higher studies and student placement. The college promotes and practices decentralization both in administrative and academic activities establishing committees under the Principal's governance for effective institute functioning. The Governing Council ensures proper functioning of the policies, rules and action plans of the college. The management endeavors to provide the best possible and substantial independence to the teaching, non-teaching (administrative) staff and the chairpersons of various departments. The college administration supports and monitors the development and implementation of policies, programs and initiatives that are associated with the vision and mission of the college. The administrative hierarchy is headed by the Principal, followed by the HODs of various departments and non-teaching staff. Departmental hierarchy is headed by HOD, (Headship is assigned on a two-year rotation basis). The service conditions of permanent teachers, including appointments and promotions, are regulated by Karnatak University, Dharwad, as per UGC and Government of Karnataka regulations. The service rules of non-teaching staff are governed by the KCSR rules and the University's set of


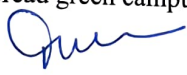
rules. The institute has its own grievance redressal committee for staff and students. The committee reviews the received grievances and resolves them, based on the severity of complaints. The institution has adopted performance management system, following two types of appraisal schemes suggested by UGC: The institution effectively implements welfare schemes for staff and makes arrangements for availing government schemes. Additionally, benefits like support for attending national-level workshops and conferences is given. Provident Fund, leave facilities for temporary staff, group insurance schemes, free healthcare services in the pharmacy for staff and their families, Reimbursement of medical expenditures are also implicated.

Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrics(QIM) in Criterion7)	
7.1	Institutional Values and Social Responsibilities
7.1.1 QIM	Institution has initiated the Gender Audit and measures for the promotion of gender equity during the last five years. <i>Describe the gender equity & sensitization in curricular and co-curricular activities, facilities for women on campus etc., within 500 words</i>
7.1.4 QIM	Describe the Institutional efforts/initiatives in providing an inclusive environment i.e., tolerance and harmony towards cultural, regional, linguistic, communal socioeconomic and Sensitization of students and employees to the constitutional obligations: values, rights, duties and responsibilities of citizens (Within 500 words)
7.2	Best Practices
7.2.1 QIM	Describe two best practices successfully implemented by the Institution as per NAAC format provided in the Manual
7.3	Institutional Distinctiveness
7.3.1 QIM	Portray the performance of the Institution in one area distinctive to its priority and thrust within 1000 words

Qualitative analysis of Criterion 7

The institution provides equal opportunity to the students to participate in all co-curricular activities. One male and two female student representatives are selected as members in all statutory bodies such as the Student Grievance Redressal Committee, Anti-Ragging Committee, Discipline Committee, Prevention of Sexual Harassment Committee, SC/ST Committee, etc. More number of girl students has been encouraged to become NCC cadets and NSS Volunteers. The Institute has 24 x 7 security guard and at least one lady security guard in the campus along with CCTV cameras in the prime areas. To address girl student's grievances, and to empower them to knowledgeable and relevant personalities from different spectra of the society, a women empowerment cell has been established with the name AKKA Association. To ensure the safety in the campus and to monitor all the activities of staff and the students in the Institution, the discipline committee is formed. In order to provide moral strength to both boys and girls students SNEHA Counselling Cell has been established which includes all the ladies teaching staff with a motive to have constant touch with all the students. The campus also possesses the state-run backward castes and minority (BCM) girl's hostel. All these facilities make girl students come forward to acquire higher education. The Institute has exclusive health centre for the students. The health centre has dedicated supporting staff viz., highly qualified doctor, staff nurse / sister, supporting staff etc. The health centre also has the provision of having visiting doctor/ specialized doctors for addressing the specific issues.

Best Practice-I: SOLID WASTE MANAGEMENT AND CREATING ECO- FRIENDLY CAMPUS: The institution has a wide spread green campus with fifty-five acres, having good green cover. To maintain



cleanliness in the campus, it has adopted solid waste management and creating eco-friendly campus. To meet the requirements of a green and clean campus, waste-generating areas have been identified and measures have been designed and implemented to maintain cleanliness on the college campus. Dustbins have been provided to segregate wet and dry solid waste at designated locations on the campus. Dry waste is collected in collaboration with the city municipal corporation, while wet waste is used for composting. The compost generated is utilized in the college's botanical garden. Waste management is achieved in a non-polluting and responsible manner.

Best Practice- II: ENCOURAGING UNDER GRADUATE STUDENTS IN RESEARCH AND DEVELOPMENT AND CREATE SCIENTIFIC TEMPER: This practice is adopted to create scientific curiosity; and encourage students to think about developing new techniques. This practice arranges a platform for students to interact with scientists who are working on cutting-edge research. It also arranges for students to visit industries and R&D centers to instill interest in science and technology through study tours. This exposes students to the advanced technologies adopted in large-scale industries and the cutting-edge research happening around the globe.

Section III: OVERALL ANALYSIS based on Institutional strengths, Weaknesses, Opportunities & Challenges (SWOC) (up to 500 words)

Overall Analysis

Strength:

1. Eco friendly large campus with green coverage.
2. Many departments have separate buildings.
3. Well equipped museums in the departments such as Botany, Geology, Zoology, Geography, and Criminology and Forensic Science.
4. Good number of Ph.D holders amongst the permanent staff.
5. Being constituent college, receiving good support from the Karnatak University, Dharwad.

Weaknesses:

1. Deficiency of permanent staff; teaching as well as non-teaching.
2. Low Research funding.
3. Lack of interaction with industries and other institutions.
4. In spite of having registered Alumni Association, lack of alumni involvement.
5. Inadequate budget allocation for various departments and library.
6. Inadequate flexibility to students to choose subjects.

Opportunities:

1. To introduce more relevant degree programmes.
2. Mobilizing resources from Alumni and other sources to enhance infrastructure facilities and placement opportunities.
3. Establishment of training unit catering to UPSC / KAS / other competitive exam aspirants.
4. Augmenting physical infrastructure as well as academic infrastructure including ICT.

Challenges:



1. Stakeholders participation in the growth and development of the college.
2. Resource mobilization.
3. Development and maintenance of the large campus with existing funds position.
4. Enhancement of research culture with temporary teaching staff.

Section IV: Recommendations for Quality Enhancement of the Institution

(Please limit to **ten major ones** and use telegraphic language) (It is not necessary to indicate all the ten bullets)

- Locally and globally relevant need based new UG and PG degree programmes with value addition be introduced.
- Vacant positions at all levels including Principal post be filled in with full time staff.
- Sports facilities (specially indoor sports) be strengthened and more number of sports and cultural events be conducted by involving more students.
- Research culture be further strengthened through collaboration with interdisciplinary approach, applying for more research funding, refurbishing research laboratories.
- All the classrooms and laboratories be strengthened with latest technology and equipment.
- More collaboration be explored with other institutions and industries and more internships be introduced for students.
- Competitive Examination Cell be instituted to provide training to students to prepare them for competitive examinations.
- Overall support systems to students be further strengthened with special attention to female hygiene.
- More communication skills and entrepreneurial skills be inculcated amongst students.
- Career Guidance Cell and Placement Cell be further strengthened.

I have gone through the observations of the Peer Team as mentioned in this report



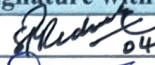


Signature of the Head of the Institution



Seal of the Institution

Principal
Karnatak Science College
Dharwad

Sl.No	Name		Signature with date
1	DR. SUHAS PEDNEKAR	Chairperson	 04/10/2024
2	DR. P MADHAVA SOMA SUNDARAM	Member Co-ordinator	 04/10/2024
3	DR. RAJEEV MATHUR	Member	 04/10/24
4	Dr. Priya N	NAAC Co - ordinator	

Place **DHARWAD**

Date **04-10-2024**