



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

**Accreditation - (Cycle - 3)**

**PEER TEAM REPORT ON  
INSTITUTIONAL ACCREDITATION OF  
KARNATAK SCIENCE COLLEGE**

**Dharwad  
580001**

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

**Section I: GENERAL INFORMATION**

1. Name & Address of the institution:	KARNATAK SCIENCE COLLEGE Dharwad Karnataka South Delhi	
2. Year of Establishment	1958	
3. Current Academic Activities at the Institution (Numbers):		
Faculties/Schools:	97	
Departments/Centres:	8	
Programmes/Course offered:	3	
Permanent Faculty Members:	43	
Permanent Support Staff:	14	
Students:	1475	
4. Three major features in the institutional Context (Asperceived by the Peer Team):	<ol style="list-style-type: none"> <li>1. It is a constituent college of Karnatak University Dharwad</li> <li>2. Co-educational institute offering 26 different combinations of subjects</li> <li>3. Sprawling campus spread over 55 acres of land with adequate infrastructure</li> </ol>	
5. Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	Visit Date From : 21-02-2019 Visit Date To : 22-02-2019	
6. Composition of Peer Team which undertook the on site visit:		
	Name	Designation & Organisation Name
Chairperson	DR. MADHUMITA DAS	Vice Chancellor, FAKIR MOHAN UNIVERSITY
Member Co-ordinator:	DR. DEVAKUMAR TRA	Former Registrar, Rajiv Gandhi National Institute of Youth Development
Member:	DR. SATYENDRA NATH BARMAN	Principal, B Borooah College
NAAC Co - ordinator:	DR. VINITA SAHU	

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## 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 delivery through a well planned and documented process
1.2	Academic Flexibility
1.3	Curriculum Enrichment
1.3.1 QIM	Institution integrates cross-cutting issues relevant to Gender, Environment and Sustainability, Human Values and Professional Ethics into the Curriculum
1.4	Feedback System

### Qualitative analysis of Criterion I

Karnatak Science College, Dharwad is a constituent college of Karnatak University, Dharwad. Vision and mission are clearly stated and communicated to the stakeholders.

The University prescribes the syllabus to be followed for all the programs affiliated to the University. Hence academic flexibility can't be achieved to a great extent. The college is co-educational and offers basic science education programmes to students, right from UG (03 courses) and PG (03 courses) up to Ph.D. (08) programmes in pure sciences. This institution provides sufficient academic flexibility to the students by offering 26 different combinations.

Information regarding lesson plan and schedule of the work are included in the Teachers Diary and are provided to all the teachers at the beginning of the academic year.

Two Internal theories and one internal practical test are conducted in every semester to help the students to enhance their performance in the final examination.

Special lectures from eminent scientists are organized and teaching through ICT basic techniques are followed. Special classes are conducted for slow learners. Faculty members take part in the design and development of curriculum by the University through Board of Studies meeting. There is a ladies association "Akka" that functions actively under the guidance of lady staff members to address personal problems of the girl students.

Environmental studies is included in the university syllabus. The college celebrates World Environment Day, Earth Day, Ozone Day and other important days to drive home the significance of the environment.

Anti-Sexual Harassment Cell, Anti-Ragging Cell, Grievance Redressal Cell are active in the college campus.

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Criterion2 - Teaching-learning and Evaluation (Key Indicator and Qualitative Metrics(QIM) in Criterion2)	
2.1	Student Enrollment and Profile
2.2	Catering to Student Diversity
2.2.1	The institution assesses the learning levels of the students, after admission and organises special programs for advanced learners and slow learners
QIM	
2.3	Teaching- Learning Process
2.3.1	Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
QIM	
2.3.4	Innovation and creativity in teaching-learning
QIM	
2.4	Teacher Profile and Quality
2.5	Evaluation Process and Reforms
2.5.1	Reforms in Continuous Internal Evaluation(CIE) system at the institutional level
QIM	
2.5.2	Mechanism of internal assessment is transparent and robust in terms of frequency and variety
QIM	
2.5.3	Mechanism to deal with examination related grievances is transparent, time-bound and efficient
QIM	
2.5.4	The institution adheres to the academic calendar for the conduct of CIE
QIM	
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 on website and communicated to teachers and students
QIM	
2.6.2	Attainment of program outcomes, program specific outcomes and course outcomes are evaluated by the institution
QIM	
2.7	Student Satisfaction Survey

#### Qualitative analysis of Criterion 2

The admissions to various classes/programmes are made in accordance with the procedures prescribed by the State Government and Karnatak University, Dharwad. Due publicity of the admission programme is made The college ensures 100% transparency in admissions. Even for hostel admissions, the same procedure is followed. At the beginning of every semester, wherever necessary, 'bridge course' classes are conducted There is a Science Association, in addition to departmental study circles, whose function is to arrange special lectures by experts in different fields, and organise training programmes. A 'Placement Cell' is available in the campus to look after student's interest regarding job opportunities, skill development and training programmes. Special classes are conducted for slow learners to compete with advanced learners. Advanced learners are motivated to participate in intercollegiate competitions and state/national level seminars. The institution provides facility like internet, department library and digitalized central library which helps students and staff to refer various books, magazines, and journals. The laboratories are also very well equipped with instruments. Students participate in extra-curricular activities like Sports, Fine arts, Music, Dance, Yoga and Cultural competitions. The institution encourages faculty members of all departments to adopt the latest and innovative teaching methodology with ICT tools in teaching process. There is a robust method of internal assessment. The institution adheres to the academic calendar for the conduct of CIE. The PO and PSO are obtained through internal examination, assignments, presentations, projects and university examinations. Test marks and their academic performances are displayed in the notice board and informed to the students and parents well in advance. Orientation and personality development programme, such as departmental club activities, NSS, NCC are encouraged.

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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 including incubation centre and other initiatives for creation and transfer of knowledge
3.3	Research Publications and Awards
3.4	Extension Activities
3.4.1 QIM	Extension activities in the neighbourhood community in terms of impact and sensitising students to social issues and holistic development during the last five years
3.5	Collaboration

**Qualitative analysis of Criterion 3**

The college is recognized as a research centre by the Karnatak University, Dharwad Twenty five teachers are recognized as research guides, for supervising Ph.D. scholars. Six major and twenty minor research projects, sponsored by UGC, DST and VGST have been completed. Fifty four Ph.D. students are on roll. Sophisticated research instruments like PC with Universal Testing Machine, UV-Visible spectrophotometer, electrochemical work station, flame photometers, cold centrifuging machine, autoclaves, scintillation counters, G.M. counters and nephelo-turbidity meters are available. The college has a Research Co-ordination Committee (R.C.C) to monitor and address the issues concerning research in the college. This committee is chaired by the Principal, and the heads of various departments are its members. Special lectures are delivered by the concerned faculty members in schools, colleges, villages and (private, state and central) government organizations. The facilities in Forensic Science and Criminology department of the institute are utilized for identification and authentication of various crime investigation techniques. The instruments in the Department of Geology of the institute are utilized for location of groundwater sources before drilling the bore-wells, rock identification, determination of rock quality, testing of gems and minerals. Faculty members also write popular articles in Newspapers & Magazines.

The students and faculty participate in Swachh Bharat programs in the campus, and in other places in and around Dharwad. The college plans and organizes its extension and outreach programmes through NCC and NSS units, AKKA association, Red Cross unit, Gymkhana of the College and the departmental study circles. Seminars and workshops are conducted on problems related to gender and environmental issues.

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Criterion4 - Infrastructure and Learning Resources (Key Indicator and Qualitative Metrics(QIM) in Criterion4)	
4.1	Physical Facilities
4.1.1	The institution has adequate facilities for teaching- learning. viz., classrooms, laboratories, computing equipment, etc.
4.1.2	The institution has adequate facilities for sports, games (indoor, outdoor),gymnasium, yoga centre etc., and cultural activities
4.2	Library as a Learning Resource
4.2.1	Library is automated using Integrated Library Management System (ILMS)
4.2.2	Collection of rare books, manuscripts, special reports or any other knowledge resources for library enrichment
4.3	IT Infrastructure
4.3.1	Institution frequently updates its IT facilities including Wi-Fi
4.4	Maintenance of Campus Infrastructure
4.4.2	There are established systems and procedures for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc.

#### Qualitative analysis of Criterion 4

Campus is spread over in 55 acres of land which is having natural landscape of its own. There are 21 magnificent and antique buildings in 33,000 Sq. m. built up area. Class rooms and laboratories are used effectively to run the UG and PG courses. Central Library and Departmental Libraries are kept open for the students and staff during office hours with Internet facility. 162 computers are available for use by the students and faculty. Remedial courses, Soft skill courses and Campus interviews are conducted. The Institution has adequate Infrastructure facilities, equipment and excellent playgrounds to encourage the sports activities

Library having an area of 3440.52 sq.m. has a seating capacity of 450 with 1,82,459 books, 28 Journals and 6232 e-journals through INFLIBNET.

The library committee consists of Principal as Chairman and two senior staff members as members.

There are a few rare plants like Saraca ashoca, Adansonia digitate, Guaucum officinalis, Psilotum spp, Equistum spp, Selaginalla spp. The Department of Botany, Zoology, Geology, Geography and Criminology and Forensic Science have well established museums with very rare and unique specimens. There are few Departments using the software's like GIS-2 (Geography and Botany) DELTA -I (Botany Dept.), Operating System software's are used in all the Departments and Office. Rare books are seen in Botany, Zoology, Chemistry, Geology and Geography. M.Sc. (Mathematics), BCA and B.Sc(CS) having Computer labs.

Rainwater harvesting structures are constructed in Chemistry, Botany, Zoology and BCA Departments. Solar Power 2KV is used in Office Computers and Principal Chamber for lighting.

Eight Fish culture ponds are maintained in Zoology Department. Five Gardens are maintained in different Departments and two in the main campus. There is a large Auditorium of 600 capacities and another small having 350 capacities. There is a mini Hall of 250 capacity with air-condition facilities. Out of 30 class rooms, 09 are fitted with LCD projectors, 24 Laboratories are available in the departments.

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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
5.3.2 QIM	Presence of an active Student Council & representation of students on academic & administrative bodies/committees of the institution
5.4	Alumni Engagement
5.4.1 QIM	The Alumni Association/Chapters (registered and functional) contributes significantly to the development of the institution through financial and non financial means during the last five years

#### Qualitative analysis of Criterion 5

A strong student support system existing in KSCD has enabled it to attract a large number of students. The college publishes its updated prospectus every year for the benefit of the students. In the prospectus, information about admission rules, available subjects and combination list, calendar of events, fee structure, scholarships, hostel facility, medical facility, gymkhana activities and cultural activities is provided to the students.

Various fellowships have been instituted, in addition to regular state government and central government fellowships. Some fellowships are in the form of cash prize. In admission to various courses, the reservation policy is strictly followed.

There is a 'Health Centre', with a qualified doctor, on the campus to take care of the health of students and staff. Every year, the college publishes a magazine called "Varna Saptaka". The wall magazine "Vichara Kranti" showcases the literary and artistic talents of the students. An active placement cell is established in the college. There is a 'Students Grievance Redressal Cell' in the college, which is headed by the Student Welfare Officer (SWO). The Cultural and Sports departments are encouraging students to participate in various competitions (all forms of cultural and sports events). Every year, students are selected as 'Karnatak University Blues' in various events.

This institution has well established Student Council. Principal of the college is the President of this body. Student secretaries in association with Chairpersons take care of the activities of every department.

The Alumni Association has contributed significantly to the development of the Institution through various activities.

A huge auditorium is being donated by an alumnus which is under construction. Well equipped drinking facility is installed by another alumnus.

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Criterion6 - Governance, Leadership and Management (Key Indicator and Qualitative Metrics(QIM) in Criterion6)	
6.1	Institutional Vision and Leadership
6.1.1 QIM	The governance of the institution is reflective of an effective leadership in tune with the vision and mission of the institution
6.1.2 QIM	The institution practices decentralization and participative management
6.2	Strategy Development and Deployment
6.2.1 QIM	Perspective/Strategic plan and Deployment documents are available in the institution
6.2.2 QIM	Organizational structure of the institution including governing body, administrative setup, and functions of various bodies, service rules, procedures, recruitment, promotional policies as well as grievance redressal mechanism
6.2.4 QIM	Effectiveness of various bodies/cells/committees is evident through minutes of meetings and implementation of their resolutions
6.3	Faculty Empowerment Strategies
6.3.1 QIM	The institution has effective welfare measures for teaching and non-teaching staff
6.3.5 QIM	Institution has Performance Appraisal System for teaching and non-teaching staff
6.4	Financial Management and Resource Mobilization
6.4.1 QIM	Institution conducts internal and external financial audits regularly
6.4.3 QIM	Institutional strategies for mobilisation of funds and the optimal utilisation of resources
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
6.5.2 QIM	The institution reviews its teaching learning process, structures & methodologies of operations and learning outcomes at periodic intervals through IQAC set up as per norms
6.5.5 QIM	Incremental improvements made during the preceding five years ( <i>in case of first cycle</i> )  Post accreditation quality initiatives ( <i>second and subsequent cycles</i> )

#### Qualitative analysis of Criterion 6

Governing Council (GC) is the highest decision making authority, with the Principal as its Secretary. The Governing Council of the college is headed by the Vice-Chancellor of Karnatak University, Dharwad. The Principal of the College is supported by other members of the GC and the staff-members. Two senior members of the faculty represent the staff on 'Governing Board' of the College. The Principal, the various Heads of the Departments (HODs) and the coordinators of different courses provide effective leadership. All major decisions of the college like annual budget allocation, teaching staff recruitment, non-teaching staff recruitment, and infrastructure development and student support / welfare schemes are managed by Karnatak University, Dharwad, in consultation with Principal of the college. All financial accounts of the college are audited. The external audit regarding all the government grants, non-government fund and expenditure of the College is conducted by the University from the Office of the Accountant General (AG) of the Government of Karnataka.

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Institutional strategic plans are formulated by the Principal, Co-ordinators and HODs.

Financial assistance is provided to the teaching faculties, once in a year to attend the conferences, seminars, symposia, workshops and training programmes. Newly appointed faculty are deputed to attend orientation programmes and refresher courses to achieve excellence in teaching in their respective subject. Medical leave and & reimbursement of medical bill facilities for the staff are in place.

Institutional budget is prepared every year by the Principal taking into consideration of recurring and nonrecurring expenditures.

Students are motivated and involved to maintain a Green and eco-friendly campus.

The students learn more than their syllabus gaining extra knowledge, to love and safeguard the fauna and flora. Most of the classrooms are equipped with CC TV camera.

IQAC meetings are conducted on regular basis and the initiative proposed are incorporated in minutes of the meeting. The action plan has been executed and the AQAR is sent online to the NAAC office.

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Criterion7 - Institutional Values and Best Practices (Key Indicator and Qualitative Metrics(QIM) in Criterion7)

7.1	Institutional Values and Social Responsibilities
7.1.2 QIM	<p>1. Institution shows gender sensitivity in providing facilities such as:</p> <ol style="list-style-type: none"> <li>1. Safety and Security</li> <li>2. Counselling</li> <li>3. Common Room</li> </ol>
7.1.5 QIM	<p>Waste Management steps including:</p> <ul style="list-style-type: none"> <li>• Solid waste management</li> <li>• Liquid waste management</li> <li>• E-waste management</li> </ul>
7.1.6 QIM	Rain water harvesting structures and utilization in the campus
7.1.7 QIM	<p>Green Practices</p> <ul style="list-style-type: none"> <li>• Students, staff using             <ol style="list-style-type: none"> <li>a) Bicycles</li> <li>b) Public Transport</li> <li>c) Pedestrian friendly roads</li> </ol> </li> <li>• Plastic-free campus</li> <li>• Paperless office</li> <li>• Green landscaping with trees and plants</li> </ul>
7.1.18 QIM	Institution organizes national festivals and birth / death anniversaries of the great Indian personalities
7.1.19 QIM	The institution maintains complete transparency in its financial, academic, administrative and auxiliary functions
7.2	Best Practices
7.2.1 QIM	Describe at least two institutional best practices (as per NAAC Format)
7.3	Institutional Distinctiveness
7.3.1 QIM	Describe/Explain the performance of the institution in one area distinctive to its vision, priority and thrust

Qualitative analysis of Criterion 7

The campus of KSCD is lush green, with several trees. A few of these trees are rare, unique and endangered species like Adensonia digitata and Goyacum officinales, Saraca asoca. The trees in the campus help to reduce the carbon footprint and play a role in carbon neutrality. The college successfully adopts energy conservation strategies by encouraging uses of solar panels in the campus.

The College has a Student's Welfare Officer, who looks after the grievances of the students in co-ordination

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with principal, wardens, HOD's and NSS, NCC officers. Separate counseling cell "SNEHA" is established for the girl students. The college has adequate solid waste management and liquid waste management system in place. Rainwater harvesting is in place. The College has nice bicycle stand, many of the student's use bicycles for commuting to college. Other best practices include Plastic-free campus, Green landscaping with trees and plants. All the staff and students assemble at 11.00 am every day and sing the National Anthem. Student prepares rags and quilts from old clothes and distribute it to the poor people. Another best practice is students take out the unused sheets of paper from internal examination scripts, make a new notebook and distribute it to the under privileged children. The college organizes National festivals and birth or death anniversaries of eminent personalities.

The institution maintains transparency in its financial, academic, administrative and auxiliary functions. Every expenditure is audited by the departmental auditor and through Karnatak university audit section. Academic Interest is achieved by the combination of various subjects and there are 26 subjects combination, which is one of the unique feature and distinctiveness of the college.

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

**Overall Analysis**

**Strengths:**

- Being a 'Constituent College' of Karnatak University, Dharwad enables the teachers and the students utilize many facilities available in Karnatak University.
- Maximum number of subject combinations at the entry level.
- Recognized as a research centre by the University; 27 students awarded with Ph.D.
- Departmental library facility available to students and staff, apart from access to central library.

**Weakness:**

- Delay in the appointment of permanent faculty.
- Insufficient hostel facilities for the boys and girl students.
- Lack of industry and institution tie-ups.
- Nonavailability of any add-on courses, and skill based courses.

**Opportunities:**

- Introduction of new PG, Diploma and Certificate programs.
- Organization of more extension programs in surrounding villages, to educate the rural masses.
- Digitalization of library and adopting e- governance.
- Introduction of 'Earn -while - Learn' Scheme.

**Challenges:**

- Addressing the problem of "Acute shortage of permanent teaching faculty".
- Appointment of trained laboratory assistants/ technical staff.
- To maintain the cultural traditions and student participation in sports and extra-curricular activities.
- Providing adequate facilities to students, especially in view of their increased strength.

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**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)

- • More PG Programmes in Geology, Forensic Science, Biotechnology and MCA may be introduced in a phased manner.
- • Steps may be taken for industry- academic linkages to facilitate faculties for consultancy and students for placement.
- • Functioning of IQAC be strengthened to enhance the quality of teaching and research.
- • Students need soft skill training to improve their personality.
- • College may introduce add-on courses through SWAYAM and MOOC on priority basis.
- • More symposia and conferences be organized through funding from external agencies like, UGC, DST, DBT etc.,
- • More hostels ( for Boys and Girls) be constructed.
- • Rain water harvesting structures need improvement.
- • Computer facilities in each department be enhanced.
- • Faculty members may be encouraged to apply for more research projects from various funding agencies.

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

Signature of the Head of the Institution

Principal,

Karnatak Science College,

Dharwad

Seal of the Institution



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1	MADHUMITA DAS	Chairman	<i>MD</i> 22.2.19
2	DEVAKUMAR TRA	Member Co - ordinator	<i>TRD</i> 22.2.19
3	DEVAKUMAR TRA	Member Co - ordinator	<i>TRD</i> 22.2.19
4	DEVAKUMAR TRA	Member Co - ordinator	<i>TRD</i> 22.2.19
5	SATYENDRA NATH BARMAN	Member	<i>SNB</i> 22/2/19
6	DR. VINITA SAHU	NAAC Co - ordinator	

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Place *Dhatwad*

Date *22.02.2019*