

**INSTITUTIONAL REACCREDITATION  
OF  
KARNATAK SCIENCE COLLEGE  
DHARWAD-580001  
KARNATAKA**

**25-26 SEPTEMBER, 2009**

**NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL  
BANGALORE-560072**



**PEER TEAM REPORT  
ON  
INSTITUTIONAL REACCREDITATION  
OF  
KARNATAK SCIENCE COLLEGE  
DHARWAD, KARNATAKA**

<b><u>Section I: GENERAL</u></b>	
1.1. Name & Address of the Institution	: <b>Karnatak Science College,</b> Dharwad - 580001, Karnataka.
1.2 Year of Establishment	: 1917
1.3 Current Academic Activities at the Institution	
• Faculties	: 01
• Departments	: 14
• Courses offered	: UG – 03, PG – 01, Ph.D. –04, M.Phil. - 03
• Permanent Faculty Members	: 43+55 (Temporary)
• Permanent Support staff	: 41+ 64(Temporary)
• Students	: 888
1.4. Three major features in the Institutional context	<ul style="list-style-type: none"><li>• A constituent college of Karnataka University established in 1917.</li><li>• Sprawling campus spread over 55 acres with antique buildings and landscape.</li><li>• Good infrastructure with conducive academic and research environment.</li></ul>
1.5. Dates of visit of the Peer Team	: 25-26 September, 2009
1.6. Composition of the Peer team which undertook the on-site visit	
Chairman	: <b>Prof. S. F. Patil</b>
Member Coordinator	: <b>Dr. R. Krishnakumar</b>
Member	: <b>Prof. M. D. P. Rao</b>

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**Section II: CRITERION WISE ANALYSIS :**

**2.1 Curricular Aspects:**

**2.1.1 Curriculum Design & Development**

- Vision and mission clearly stated and communicated to the stakeholders.
- College follows the syllabus prescribed by Karnataka University.
- Based on the feedback received from stakeholders, faculty members contribute for curriculum development through boards of studies.
- Academic programmes are in line with the institution's objectives.

**2.1.2 Academic Flexibility:**

- Four new courses have been introduced after the last accreditation.
- Reasonable academic flexibility with 29 subject combinations available at UG level.
- College offers M.Phil. programme in four subjects and Ph.D. programme in three subjects.
- M.Sc. course in organic chemistry is offered on self financing basis while BCA and B.Sc. (Computer science) courses are partially self financing courses.

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<p>2.1.3 Feedback on Curriculum:</p> <p>2.1.4 Curriculum update:</p> <p>2.1.5 Best Practices in Curricular Aspects:</p> <p><b><u>2.2 Teaching – Learning &amp; Evaluation:</u></b></p> <p>2.2.1 Admission Process and Student Profile:</p>	<ul style="list-style-type: none"><li>• College obtains feedback on curriculum from <u>academic peers</u>, <u>students</u> and <u>industry</u>.</li><li>• Feedback is analyzed and utilized in curriculum development.</li><li>• College follows the semester pattern prescribed by Karnataka University.</li><li>• The syllabus of UG courses was restructured in the year 2005-06 as per UGC guidelines.</li><li>• Academic audit is conducted annually.</li><li>• Seminars, home assignments, study tours, special lectures, endowment and memorial lectures are organized for supporting the curriculum.</li><li>• Admission process is transparent.</li><li>• Admissions are done on merit for general courses and through entrance test for BCA, B.Sc. (Computer science) and M.Sc. (Organic Chemistry) courses in conformity with the rules of Karnataka University.</li><li>• 58% students admitted are from the disadvantaged and minority communities.</li></ul>
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<p>2.2.2 Catering to the Diverse Needs:</p> <p>2.2.3 Teaching – Learning Process:</p> <p>2.2.4 Teacher Quality:</p> <p>2.2.5 Evaluation Process and Reforms:</p>	<ul style="list-style-type: none"><li>• <u>Remedial courses</u> are conducted for slow learners.</li><li>• <u>Bridge courses</u> are organised.</li><li>• <u>Provision for tutorial classes</u> exists.</li><li>• <u>Academic calendar</u> and <u>teaching plan</u> are made available to students.</li><li>• Student's progress is monitored by internal tests.</li><li>• <u>Evaluation of teachers</u> by students is analysed by an <u>external agency</u> and the outcome is communicated to teachers.</li><li>• Modern teaching aids are utilised.</li><li>• Teachers are selected as per UGC and University guidelines.</li><li>• Of the 43 permanent teachers, 34 hold Ph.D. degree and 3 possess M.Phil. degree.</li><li>• Four teachers have received awards for their academic distinction.</li><li>• Evaluation methods are made available through college website and prospectus.</li><li>• Progress of students is monitored through continuous assessment and <u>communicated to the parents.</u></li></ul>
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<p>2.2.6. Best Practices in Teaching – Learning and Evaluation:</p> <p><b>2.3 <u>RESEARCH CONSULTANCY &amp; EXTENSION:</u></b></p> <p>2.3.1 Promotion of Research</p> <p>2.3.2 Research and Publications</p>	<ul style="list-style-type: none"><li>• Preparation of Well conceived lesson plans by teachers.</li><li>• Organizing study tours, industrial and field visits.</li><li>• Project work by students in association with national institutes.</li><li>• Research committee is constituted to facilitate and monitor research activities in the college.</li><li>• Research guides are provided with well equipped laboratories.</li><li>• Summer projects are undertaken by students in IISc., IIT and other research institutes.</li><li>• 20 recognized research guides of the college supervise 33 Ph.D. and 5 M.Phil. Scholars.</li><li>• 11 minor research projects have been completed during the last five years and 6 major and 16 minor research projects are presently in operation in some of the departments.</li><li>• After the last accreditation, 18 and 13 research scholars were awarded Ph.D. and M.Phil. degrees respectively.</li></ul>
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<p>2.3.3 Consultancy:</p> <p>2.3.4 Extension Activities:</p> <p>2.3.5 Collaborations:</p>	<ul style="list-style-type: none"><li>• Faculty members have published 73 and 56 research papers in international and national journals respectively.</li><li>• One of the faculty members in zoology has made significant contribution by publishing 42 research papers and another in Genetics has developed Genetic marker and is recorded in Gene bank.</li><li>• Departments of criminology and forensic science, chemistry and industrial fisheries render expert advice to rural folks and various agencies.</li><li>• Aids awareness, soil survey, fresh water conservation programmes etc are organized in villages with the help of NGOs and the Government organizations.</li><li>• Extension activities are promoted through two units of NCC and one unit of NSS volunteers.</li><li>• Some outreach programmes are integrated with academic curriculum.</li><li>• Some teachers have received recognition for extension activities.</li><li>• College has MoU with Infosys for job training and placement which is worth emulating.</li></ul>
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2.3.6 Best Practices in Research Consultancy & Extension:

- Some faculty members have research collaboration at national and international levels in the areas of their interest.
- Good number of publications in national and international journals of repute.
- Commendable socially oriented consultancy programmes at village levels in various fields.
- Praiseworthy research output in the last two years in some departments.

**2.4 INFRASTRUCTURE AND LEARNING RESOURCES:**

2.4.1 Physical facilities for Learning:

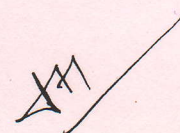
- College campus spread over 55 acres houses 21 buildings.
- Hi-tech auditorium donated by one of the alumni with a seating capacity of 650 in addition to an open air theatre and a conference hall exists.
- Playgrounds for almost all sports activities are available.
- Laboratories are well equipped. Physics laboratories deserve special mention.
- College infrastructure is optimally utilized.

2.4.2 Maintenance of Infrastructure:

- Adequate budget allocation is made for campus maintenance.
- Staff are appointed for proper maintenance.



<p>2.4.3 Library as Learning Resources:</p> <p>2.4.4 ICT as Learning Resources:</p> <p>2.4.5 Other Facilities:</p> <p>2.4.6 Best Practices in the development of Infrastructure and Learning Resources:</p>	<ul style="list-style-type: none"><li>• College infrastructure and laboratory equipments are well maintained.</li><li>• Spacious and well furnished library with open access system for staff and students.</li><li>• Library has broadband connectivity, reprographic, book binding and LAN facilities.</li><li>• Library has spacious reading rooms for boys and girls.</li><li>• College has 132 Computer systems with adequate software.</li><li>• College has its own website which is updated regularly.</li><li>• LCD projectors and OHP's are routinely used in teaching</li><li>• College has health centre, canteen, staff quarters, drinking water facility, and power backup for some departments.</li><li>• College has hostels for boys and girls.</li><li>• Good budgetary provision for IT related programmes.</li><li>• Modernization of teaching and research laboratories.</li><li>• Extensive use of modern teaching aids.</li></ul>
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2.5.4 Best Practices in Student Support and Progression:

**2.6 GOVERNANCE AND LEADERSHIP:**

2.6.1 Institutional Vision and Leadership:

2.6.2 Organizational Arrangements:

2.6.3 Strategy Development and Deployment:

- Students are encouraged to participate in extra-curricular activities.
- College gymkhana organizes number of cultural, sports and literary events throughout the year.
- Establishment of study circle in each department.
- Implementation of dress code for students.
- Felicitation of rank holders and sports and other achievers.
- Vision and mission are in tune with the objectives of higher education policy.
- The college management is committed to provide funds for creating good infrastructure.
- It encourages teachers to avail Faculty Improvement Programmes.
- Local governing body meets twice a year to discuss various aspects of teaching and administration.
- Grievances of employees are addressed through university grievance redressal cell.
- 16 staff committees help the institution to plan and execute academic, co-curricular and extra-curricular programmes.



<p>2.6.4 Human Resource Management:</p> <p>2.6.5 Financial Management and Resource Mobilization:</p> <p>2.6.6 Best Practices in Governance and Leadership:</p>	<ul style="list-style-type: none"><li>• Five year plan document for development is prepared as per UGC guidelines.</li><li>• Feedback from parents, alumni and students are placed before the local governing body.</li><li>• Teachers are encouraged to participate in seminars, conferences and symposia.</li><li>• Separate cabins are provided for faculty members.</li><li>• Loan facility, festival advance, medical advance and residential staff quarters are provided.</li><li>• College receives financial support from the State Government.</li><li>• Sufficient budgetary provisions are made for conducting different programmes.</li><li>• Resources are generated through enhanced fee structure for limited number of admissions in BCA, B.Sc. (Computer Science) and M.Sc. (Organic Chemistry) self financing courses.</li><li>• Regular audit is conducted by University auditors.</li><li>• Involvement of teachers in decision making.</li><li>• Deliberation of various issues in the governing body.</li></ul>
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**2.7 INNOVATIVE PRACTICES:**

2.7.1 Internal Quality Assurance System:

- IQAC monitors to some extent the total quality management of the institution.
- Academic, administrative and accounts committee for internal audit is in place.

2.7.2 Inclusive Practices:

- Access to socially and economically backward students for all courses exists.
- Recruitment of staff from disadvantaged communities is made as per university regulations.
- Institution records incremental academic growth.

2.7.3 Stakeholder Relationships:

- Conducive learning atmosphere exists in the campus.
- College makes efforts to bring in community orientation in its activities.
- Academic programmes are planned considering the needs of students.

**SECTION III: OVERALL ANALYSIS**

3.1 Institutional Strengths:

- Sprawling campus with antique buildings and landscape.
- Qualified and competent staff.
- Involvement of alumni for the infrastructural development of the college.
- Low drop-out rate and good progression for higher studies.
- Good performance in University examinations with ranks and gold medals.

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3.2 Institutional Weaknesses:

- Limited representation of students in sports at state and national levels.
- Partial computerization of library and the office.
- No add-on, diploma and certificate courses.
- Functioning of IQAC needs to be further strengthened.

3.3 Institutional Opportunities:

- Promotion of more sports and games activities at state and national levels.
- Total computerization of library besides finance and administration units.
- Enhancing institution – industry interaction at research level.
- Strengthening of the placement cell.
- Improving soft skills and communication skills of students.

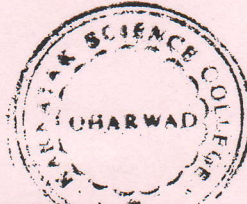
**SECTION IV : RECOMMENDATIONS FOR QUALITY ENHANCEMENT OF THE INSTITUTION**

- PG programmes in Physics, Biotechnology, Forensic Science and MCA may be introduced in a phased manner.
- Faculty may be encouraged to publicise their expertise in consultancy especially to industries to generate resources.
- Separate central computer facility may be established.
- Library, finance and administration units need to be fully computerized.
- Functioning of IQAC may be further strengthened.
- Faculty members may be encouraged to apply for more major research projects from various funding agencies.



- College may introduce value based add-on courses.
- 'Earn-while you learn' scheme may be introduced.
- Language laboratory to augment communication skills of students may be established on priority basis.
- Participation of more students in sports at National level and cultural activities may be encouraged.
- Teacher-ward system may be introduced
- More symposia and conferences may be organized by procuring grants from UGC and other funding agencies.
- Establishment of multi Gym and Wi – Fi facilities may be considered.
- Training programme for non-teaching staff may be organized.

I agree with the observations of the Peer Team as mentioned in this report



*Dr. V. H. Arali*  
(Dr. V. H. Arali) 26/09/09  
Principal,  
Karnatak Science College,  
Dharwad.

Signature of the Peer Team members:

Prof. S. F. Patil  
Chairman

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*R. Krishnakumar*  
26/09/09  
Dr. R. Krishnakumar  
Member Coordinator

Prof. M. D. P. Rao  
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