

## **Report of the Peer Team on**

### **Institutional Accreditation**

**[Cycle – I (Re-Assessment), Track ID: TNUNGN11129]**

**of**

**Karunya Institute of Technology and Sciences**  
**(Deemed to-be University under Section 3 of the UGC Act 1956)**  
**Karunya Nagar, Coimbatore – 641 114, Tamil Nadu**

**Dates of Visit: May 05-07, 2016**



**National Assessment and Accreditation Council**  
**Nagarbhavi, Bengaluru - 560 072, India**



**Report of the Peer Team on Institutional Accreditation of  
Karunya Institute of Technology and Sciences  
(Deemed to-be University under Section 3 of the UGC Act 1956)  
Karunya Nagar, Coimbatore – 641 114, Tamil Nadu**

<b>Section I: General Information</b>	
1.1. Name & Address of the Institution:	Karunya Institute of Technology and Sciences (Deemed to-be University under Section 3 of the UGC Act 1956), Karunya Nagar, Coimbatore – 641 114, Tamil Nadu
1.2. Year of Establishment:	4 <sup>th</sup> October 1986 23 <sup>rd</sup> June 2004 (Deemed to-be University status by UGC)
1.3. Current Academic Activities at the Institution (Numbers) <ul style="list-style-type: none"> <li>• Faculties/Schools:</li> <li>• Departments/Centres</li> <li>• Programs/Courses offered</li> <li>• Permanent Faculty</li> <li>• Permanent Support Staff</li> <li>• Students</li> </ul>	7 Schools 19 departments (Engineering: 12, Science: 5, Management: 1 and Arts: 1) 13 Undergraduate (B.Tech.) 25 Postgraduate (M.Tech., M.Sc. and MBA) 02 Integrated M.Sc. 02 PG Diploma 04 M.Phil. 18 Ph.D. programs 450 250 7991 (UG: 6012, PG: 1174, Integrated M.Sc. 239, PG Diploma: 06, M.Phil.: 36 and Ph.D. 524)
1.4. Three major features in the institutional context (As perceived by the Peer Team)	<ul style="list-style-type: none"> <li>• Self-financed fully residential, minority and deemed to be university</li> <li>• Excellent physical infrastructure and well maintained green campus</li> <li>• Institution aspiring to enhance academic and research quality and ambience</li> </ul>
1.5. Dates of Visit of the Peer Team (A detailed visit schedule attached)	May 05-07, 2016
1.6. Composition of the Peer Team which undertook the on-site visit:	
Chairperson:	Prof. H. P. Khincha (Former VC, VTU, Belgaum) Dept. of Electrical Engineering, Indian Institute of Science, Bangalore –560012, Karnataka

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(1) **Professor H. Surya Prakash Rao**

(Member Coordinator)

Department of Chemistry and

Center Head, Bioinformatics

Pondicherry University,

**Puducherry-605 014, Puducherry**

(2) **Prof. S.P. Shukla**

Civil Engineering Department

Institute of Engineering & Technology,

Dr. APJ Abdul Kalam Technical University,

**Lucknow-226021, Uttar Pradesh.**

(3) **Prof. Nasib Singh Gill**

Head, Department of Computer Science & Applications

Maharshi Dayanand University,

**Rohtak - 124001, Haryana**

(4) **Prof. Dharmendra S. Sharma**

Head, Dept. of Mechanical Engineering,

The Maharaja Sayajirao University of Baroda, Kalabhavan,

**Vadodara - 390 001, Gujarat**

(5) **Prof. Kanika Sharma**

Head, Dept. of Botany,

Course Director,

Departments of Biotechnology and Microbiology.

University College of Science

M.L.S. University, **Udaipur-313001, Rajasthan**

(6) **Prof. Charu Lata Mahanta**

Department of Food Engineering & Technology,

School of Engineering,

Tezpur University,

**Tezpur-784028, Assam**

(7) **Prof. Karamjeet Singh**

(Finance & Strategic Management)

University Business School,

Panjab University, **Chandigarh - 160014**

**Dr. M. S. Shyamasundar,**

Adviser, NAAC,

P.O. Box 1075, Nagarbhavi,

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Members:

Coordinator at NAAC

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**Section II: CRITERION WISE ANALYSIS**

**2.1 Curricular Aspects**

2.1.1 Curricular Design and Development	<ul style="list-style-type: none"> <li>• Curricula developed as per UGC / AICTE norms</li> <li>• Syllabus revised periodically by involving stakeholders</li> <li>• One UG (B.Tech) and three PG (M.Tech) programs introduced additionally</li> </ul>
2.1.2 Academic flexibility	<ul style="list-style-type: none"> <li>• Choice Based Credit System initiated</li> <li>• Option of self-study courses available</li> <li>• Student exchange programs with universities abroad initiated</li> </ul>
2.1.3 Curriculum Enrichment	<ul style="list-style-type: none"> <li>• Good number of certificate, diploma and value added courses enrich academic experience</li> <li>• Invited lectures and extension activities enrich curricular aspects</li> <li>• Student centric soft-skill development programs available</li> <li>• Efforts towards training of students to clear national level tests yet to give results</li> </ul>
2.1.4 Feedback System	<ul style="list-style-type: none"> <li>• Feedback system comprehensive</li> <li>• Methods to evaluate course learning outcomes being developed</li> <li>• Quality enhancement of academic audit required</li> </ul>

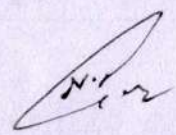
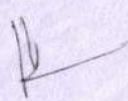
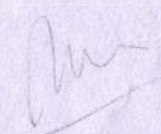
**2. 2 Teaching-Learning and Evaluation**

2.2.1 Student Enrollment and Profile	<ul style="list-style-type: none"> <li>• Admissions to UG courses are largely through national level entrance test</li> <li>• Pan-India representation with majority from Tamil Nadu and Kerala</li> <li>• Christian Minority institution with 60% reservation</li> <li>• Low GATE (in M.Tech), NET (in Ph.D) qualified students enrollment</li> <li>• University has admission quota for sports personnel</li> </ul>
2.2.2 Catering to Student Diversity	<ul style="list-style-type: none"> <li>• Orientation program, identification of slow learners helped academic growth</li> <li>• Financial support to fast learners to carry out projects</li> </ul>

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	<ul style="list-style-type: none"> <li>• Facility for differently abled students' need augmentation</li> </ul>
2.2.3 Teaching- Learning Process	<ul style="list-style-type: none"> <li>• Academic and teaching plans with course and program outcomes in place</li> <li>• Wi-Fi enabled campus, ICT enabled class rooms enhance learning process</li> <li>• Virtual lab collaborations initiated</li> </ul>
2.2.4 Teacher Quality	<ul style="list-style-type: none"> <li>• About one-third of faculty are Ph.D. degree holders</li> <li>• Limited number of faculty from reputed institutions</li> <li>• Majority of faculty are from the region</li> <li>• Cadre ratio as per norms needs to be maintained</li> </ul>
2.2.5 Evaluation Process and Reforms	<ul style="list-style-type: none"> <li>• Examinations are conducted as per schedule and results declared in time</li> <li>• Evaluation is completely internal.</li> <li>• Evaluation process need to be strengthened</li> <li>• Ph.D. thesis evaluation regulations needs relook</li> </ul>
2.2.6 Student Performance and Learning Outcome	<ul style="list-style-type: none"> <li>• High pass-percentage</li> <li>• Provision of revaluation in place</li> <li>• Communication skills and employability of students need augmentation</li> </ul>
<b>2.3 Research, Consultancy and Extension</b>	
2.3.1 Promotion of Research	<ul style="list-style-type: none"> <li>• Concerted efforts to promote research visible</li> <li>• Institutional fellowship to a few Ph.D. scholars</li> <li>• A good number of sponsored projects have been obtained by the faculty</li> <li>• University publishes its own research journal</li> </ul>
2.3.2 Resource Mobilization for Research	<ul style="list-style-type: none"> <li>• Many government funded projects</li> <li>• Industry-Academia research partnership initiated</li> <li>• Institutional support for research initiated</li> </ul>
2.3.3 Research Facilities	<ul style="list-style-type: none"> <li>• Facilities in selected subjects (Water Institute, Nano-science and Technology, Food Science, Robotics, Communication, Aerodynamics) is established.</li> <li>• Space for research laboratories in many departments is adequate, but in some (Aerospace) there is need for augmentation.</li> </ul>

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	<ul style="list-style-type: none"> <li>• More advanced and sophisticated facilities need to be procured</li> </ul>
2.3.4 Research Publications and Awards	<ul style="list-style-type: none"> <li>• Number of research publications improved in last two years.</li> <li>• Interdisciplinary and inter-departmental research activities visible</li> <li>• IPR cell established and filing of patents started</li> <li>• Quality of publications need improvement</li> </ul>
2.3.5 Consultancy	<ul style="list-style-type: none"> <li>• Consultancy policy is in place</li> <li>• Major earning is through training programs</li> <li>• Across the board consultancy services needs to be strengthened</li> </ul>
2.3.6 Extension Activity and Institutional Social Responsibility	<ul style="list-style-type: none"> <li>• Extension activities through large number of NSS units, NCC and various clubs is appreciable</li> <li>• Adoption of nearby villages (15 numbers) brought appreciable changes there</li> <li>• Structured extension work</li> </ul>
2.3.7 Collaboration	<ul style="list-style-type: none"> <li>• Faculty and student exchanges through MoUs exist</li> <li>• MoUs with MNCs and Universities initiated</li> </ul>
<b>2.4 Infrastructure and Learning Resources</b>	
2.4.1 Physical facilities	<ul style="list-style-type: none"> <li>• Excellent physical infrastructure facilities</li> <li>• Good academic infrastructures keeping pace with growth</li> <li>• Indoor/outdoor sports facilities and gymnasium facilities</li> <li>• Completely residential campus</li> <li>• Limited residential accommodation for faculty and support staff</li> </ul>
2.4.2 Library as a Learning Resource	<ul style="list-style-type: none"> <li>• Central and School/Department libraries adequately stacked with books</li> <li>• Spacious and well-furnished physical space</li> <li>• Touch kiosk at all floors</li> <li>• Number of online journals and e.books to be increased</li> <li>• Remote access to library resources need to be developed</li> </ul>
2.4.3 IT Infrastructure	<ul style="list-style-type: none"> <li>• Wi-fi enabled campus 1 GB internet connectivity through NKN</li> <li>• ICT enabled class-rooms</li> <li>• Use of open-source software to be encouraged</li> </ul>

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2.4.4 Maintenance of campus facilities	<ul style="list-style-type: none"> <li>• Building and campus well-maintained</li> <li>• In-house maintenance of computers</li> <li>• Management of e-waste initiated</li> </ul>
<b>2.5 Student Support and Progression</b>	
2.5.1 Student Mentoring and Support	<ul style="list-style-type: none"> <li>• Mentor-mentee concept in place</li> <li>• Provision of fee-waiver for economically weaker sections and government scholarships in place</li> <li>• Professional counselors need to be in place</li> </ul>
2.5.2 Student Progression	<ul style="list-style-type: none"> <li>• Dropout rate negligible</li> <li>• Progression to higher education needs strengthening</li> <li>• Support services for competitive examinations to be strengthened</li> </ul>
2.5.3 Student Participation and Activities	<ul style="list-style-type: none"> <li>• Student participation in cultural, sports and club events evident as seen in several medals, trophies and awards.</li> <li>• Alumni activities to be strengthened</li> <li>• Student participation in placement cell and other internal committees needs strengthening</li> </ul>
<b>2.6 Governance, Leadership and Management</b>	
2.6.1 Institutional Vision and Leadership	<ul style="list-style-type: none"> <li>• Vision to solve problems of humanity in socially relevant areas</li> <li>• Pro-active role and leadership of top-management</li> <li>• Second line of leadership need to be developed.</li> </ul>
2.6.2 Strategy Development and Deployment	<ul style="list-style-type: none"> <li>• Structured organizational matrix</li> <li>• Financial resource mapping to meet strategic needs to be done</li> <li>• The university needs to have short and long-term strategic and perspective plans</li> </ul>
2.6.3 Faculty Empowerment Strategies	<ul style="list-style-type: none"> <li>• Provision of professional development assistance (PDA) for faculty exists.</li> <li>• Provision of incentives for better performance exists</li> <li>• Performance appraisal and assessment policies need to be made effective</li> <li>• Seed money provision to newly inducted faculty to be enhanced</li> </ul>

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2.6.4 Financial Management and Resource Mobilization	<ul style="list-style-type: none"> <li>• Adequate financial resources for development activities</li> <li>• Accounting and auditing in place</li> <li>• University may enhance corpus to augment resources</li> <li>• To increase funds from sponsored and industry projects</li> </ul>
2.6.5 Internal Quality Assurance Cell	<ul style="list-style-type: none"> <li>• IQAC active and effective</li> <li>• Involvement of external experts in IQAC appreciable</li> <li>• External academic auditing is in place</li> </ul>
<b>2.7 Innovations and Best Practices</b>	
2.7.1 Environment Consciousness	<ul style="list-style-type: none"> <li>• Green audit conducted</li> <li>• STP exits and output water used in campus</li> <li>• Rain-water harvesting system in place</li> </ul>
2.7.2 Innovations	<ul style="list-style-type: none"> <li>• Eleven patents filing in past two years</li> <li>• Establishment of Technology development Center</li> </ul>
2.7.3 Best Practices	<ul style="list-style-type: none"> <li>• Incinerators in girl-hostel.</li> <li>• Night-soil based biogas plant</li> <li>• In-house ERP and MY KARUNYA portal</li> </ul>

**Section III: OVERALL ANALYSIS**

3.1 Institutional Strengths	<ul style="list-style-type: none"> <li>• Well laid-out environment friendly campus with adequate building space</li> <li>• Conducive academic environment</li> <li>• Pan-India enrollment of students in all UG programs</li> <li>• Residential campus</li> <li>• Committed leadership</li> </ul>
3.2 Institutional Weakness	<ul style="list-style-type: none"> <li>• Vacant teaching positions at senior level</li> <li>• Limited success of students in competitive examinations</li> <li>• Less number of Ph.D. degree holders</li> <li>• Inbreeding of faculty and poor cadre ratio</li> <li>• Placement in core disciplines limited</li> </ul>
3.3 Institutional Opportunities	<ul style="list-style-type: none"> <li>• To commercialize patents</li> <li>• To attract international students and faculty</li> </ul>

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	<ul style="list-style-type: none"> <li>• To collaborate teaching and research programs with national institutions like IITs and IISc</li> <li>• To take advantage of multi-faceted industrial establishments of nearby area</li> <li>• To translate industrial collaborations with MNCs into vibrant research outcome</li> <li>• Effective utilization of alumni for quality enhancement of University</li> </ul>
<p>3.4 Institutional Challenges</p>	<ul style="list-style-type: none"> <li>• To attract and retain highly qualified faculty</li> <li>• To develop long term strategic plan</li> <li>• To introduce flexibility, mobility and inter-disciplinary approach to academic programs</li> <li>• To realize inherent potential for offering consultancy</li> <li>• To motivate faculty to further increase quality publications</li> <li>• To place students in core companies</li> <li>• To cope up with the competition of quality institutions in the area</li> </ul>

**Section IV: Recommendations for Quality Enhancement of the Institution**

- To prepare perspective plan and vision document
- High quality faculty induction, nurturing, promotion and retention at all levels
- Improve quality and quantity of research
- Implementation of CBCS in objective manner
- Actively promote the role of Alumni in planning, placement, research and development
- Consultancy and industrial interactions in the areas of core-competency of faculty needs to be augmented
- Facilitation of student success in national level competitive examinations
- Development of student leadership as per UGC recommendations

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- Innovative ideas of students to be nurtured and promoted through institutional support.
- University may introduce post-graduate interdisciplinary programs in Chemical Biology, Material Science and Technology, Robotics etc.
- Common computer facilities and TV room to be made available in hostels

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



*Handwritten signature and date: 7/5/16*

**Signature of the Vice-Chancellor**  
**Karunya Institute of Technology and Sciences**  
 Karunya Institute of Technology and Sciences  
 (Declared as Deemed to be University)  
 Karunya Nagar, Coimbatore - 641 114.

**Signatures of the Peer Team Members**

Name		Signature with date
<b>Dr. H. P. Khincha</b>	Chairperson	<i>H. P. Khincha</i> 7/5/2016
<b>Dr. S. P. Shukla</b>	Member	<i>S. P. Shukla</i> 7/5/16
<b>Dr. Nasib Singh Gill</b>	Member	<i>N. S. Gill</i> 7/5/2016
<b>Dr. Dharmendra S Sharma</b>	Member	<i>D. S. Sharma</i> 07/05/2016
<b>Dr. Kanika Sharma</b>	Member	<i>Kanika Sharma</i> 7/5/16
<b>Dr. Charu Lata Mahanta</b>	Member	<i>Charu Lata Mahanta</i> 7/5/2016
<b>Dr. Karamjeet Singh</b>	Member	<i>K. Singh</i> 7/5/16
<b>Dr. H. Surya Prakash Rao</b>	Member -Coordinator	<i>H. S. Prakash Rao</i> 07/05/2016

Place: Coimbatore  
 Date: 07.05.2016