

Peer Team Report on Institutional Assessment

of

**DEENBANDHU CHHOTU RAM
UNIVERSITY OF SCIENCE & TECHNOLOGY
MURTHAL, SONEPAT, HARYANA – 131039**
(first cycle)

13th – 15th February, 2017



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission
P.O. Box No. 1075, Nagarbhavi, Bangalore - 560072

PEER TEAM REPORT ON Institutional Accreditation of DEENBANDHU CHHOTU RAM UNIVERSITY OF SCIENCE & TECHNOLOGY, MURTHAL (SONEPAT) HARYANA - 131039	
Section I: GENERAL	Information
1.1 Name & Address of the Institution:	Deenbandhu Chhotu Ram University of Science and Technology, Murthal, Sonapat, Haryana-131039
1.2 Year of Establishment:	2006
1.3 Current Academic Activities at the Institution (Numbers):	
• Faculties/ Schools:	06
• Departments:	16
• Centers:	0
• Programs/ Courses offered:	38
• Permanent Faculty Members:	170
• Permanent Support Staff:	185
• Students:	4094
1.4 Three major features in the institutional Context (As perceived by the Peer Team):	<ul style="list-style-type: none"> • Good physical infrastructural facilities • Sound financial support from the state Government • Preferred institution in the state
1.5 Dates of visit of the Peer Team (A detailed visit schedule may be included as Annexure):	13 th -15 th Feb 2017
1.6 Composition of the Peer Team which undertook the on- site visit:	
Chairman:	Prof. H. P. Khincha (Former VC, VTU, Belgaum) (Professor, Dept. of Electrical Engineering, Indian Institute of Science, Bangalore) Resi: No. 11, 4 th Main Road Chamrajpet, Bengaluru-560012, Karnataka
Member Co-ordinator:	Prof. Alok Kumar Rai Dept. of Management Studies Banaras Hindu University Varanasi-221005, Uttar Pradesh

Member:	Prof. D. N. Reddy (Former Vice Chancellor Jawaharlal Nehru Technological University) Resi: Plot No. 379, Swami Ayyappa Society, Madhapur, Hyderabad-500081, Telangana
Member:	Prof. K. Muthuchelian (Former Vice Chancellor, Periyar University, Salem) 2/133, Sakthi kudil, Palkalai Nagar Madurai – 625021, Tamil Nadu
Member:	Prof. S. P. Singh Professor & Head School of Energy & Environmental Studies Devi Ahilya Vishwavidyalaya Khandwa Road, Indore-4520001, Madhya Pradesh
Member:	Dr. J. B. Naik Professor University Institute of Chemical Technology, North Maharashtra University, Jalgaon – 425001, Maharashtra
Member:	Prof. Venkatesh V. Kamat Professor & Head Department of Computer Science Goa University, Taleigao Plateau - 403206, Goa
Member:	Prof. V. S. Adane Professor & Head Department of Architecture & Planning V. National Institute of Technology, Nagpur - 440010 Maharashtra
NAAC Coodinator:	Dr. Ganesh Hegde Deputy Advisor NAAC, Bengaluru - 560072 Karnataka

Section II: CRITERION WISE ANALYSIS	Observations (Strengths and/or Weaknesses) on Key-Aspects (Please limit to three major ones for each and use telephonic language (It is not necessary to indicate all the three bullets each time; write only the relevant ones))
2.1 CURRICULAR ASPECTS:	
Section II: CRITERION WISE ANALYSIS	
2.1 Curricular Aspects:	
2.1.1 Curriculum Design & Development:	<ul style="list-style-type: none"> • Curriculum aligned with the objectives of the University through respective BOS • Inputs from affiliated colleges in new curricula design and offering to be facilitated • Inputs from industry and organizations in curricula development • Curricula updating in all departments to be undertaken regularly
2.1.2 Academic Flexibility:	<ul style="list-style-type: none"> • Credit based Semester system implemented in all courses with limited horizontal mobility • Choice based Credit system to be introduced • To provide leadership to affiliated colleges for academic excellence • Few departments arrange for off campus learning through field visits
2.1.3 Curriculum Enrichment	<ul style="list-style-type: none"> • A good number of new courses introduced since inception of University • Curriculum gaps need to be identified to bridge education-employment gap • Value-added/Soft skills courses may be strengthened
2.1.4 Feedback System	<ul style="list-style-type: none"> • Proforma based feedback obtained from students in place • Informal feedback from alumni, parents and industry personnel • Feedback analysis and follow up needs structured system

2.2 Teaching-Learning & Evaluation:	
2.2.1 Student Enrolment and Profile	<ul style="list-style-type: none"> • Admission to UG programs done through Haryana state directed process • PG Admission based on own entrance examination or GATE score • Haryana Government reservation policy adhered to
2.2.2 Catering to student Diversity:	<ul style="list-style-type: none"> • Orientation programs and student counseling provided to diverse group of students. • Need based extra classes conducted for weak students • Book bank scheme in practice exclusively for SC/ST students • Special coaching for GATE/NET/SLET is required.
2.2.3 Teaching-Learning Process:	<ul style="list-style-type: none"> • University provides and follows academic calendar • Conventional pedagogy practiced • Limited use of modern teaching aids, smart class rooms etc. • NMEICT, NPTEL, QEEE resources utilized for initiating Blended learning
2.2.4 Teacher Quality:	<ul style="list-style-type: none"> • About 60% faculty members Ph.D holders • Selection of faculty based on UGC guidelines • Faculty cadre ratio needs improvement
2.2.5 Evaluation Process and Reforms:	<ul style="list-style-type: none"> • Evaluation process well defined, transparent and secure • Semester system of examination consisting of internal and terminal examination in practice. • In house developed software for end to end examination system • Final year result is declared within three weeks
2.2.6 Student Performance and Learning Outcomes :	<ul style="list-style-type: none"> • Good pass percentage in both UG & PG • Departments conduct tutorials, class tests, group discussions and projects. • Graduate attributes and learning outcome to be strengthened
2.3 Research, Consultancy & Extension:	
2.3.1 Promotion of Research:	<ul style="list-style-type: none"> • Research Advisory committee in place • No seed funding for young faculty to initiate research

	<ul style="list-style-type: none"> • Workshops/seminars and training programmes are conducted to promote research • Funding available to faculty members for participation in conferences • Affiliated Colleges need to be provided with access to university research facilities as well as processes for recognition as research centre
2.3.2. Resource Mobilization for Research:	<ul style="list-style-type: none"> • Some of the departments are recognized as UGC-DRS departments • Research grants from outside agencies can be improved • Industry support for research and development needs strengthening
2.3.3 Research facilities:	<ul style="list-style-type: none"> • Central instrumentation lab with a few facilities exists • Solar thermal test centre established with Haryana Government support • Knowledge resources and computational facilities adequate • More funds to be allocated for upgradation / maintenance of research facilities
2.3.4 Research Publication and Awards:	<ul style="list-style-type: none"> • University has published a reasonable number of publications in national and international journals • High impact factor publications need attention • Patent submissions recently initiated • Reasonable rewards and recognitions for faculty
2.3.5 Consultancy:	<ul style="list-style-type: none"> • Consultancy policy in place • Reasonable consultancy income by few departments like management studies, Civil Engineering and Architecture • Culture of consultancy is to be nurtured
2.3.6 Extension Activities and Institutional Social responsibilities:	<ul style="list-style-type: none"> • Extension programs organized through NSS • Promotes university-neighborhood network through community oriented programs • Mini-Marathon event conducted every year with regional participation • Deprived Child education initiative 'SAVERA' run by the students

2.3.6 Collaboration:	<ul style="list-style-type: none"> • Some departments have established collaborative programs for research • Formal MOUs for collaborative activities restricted to few departments. • MoUs with international agencies yet to mature.
2.4 Infrastructure and Learning Resources:	
2.4.1 Physical Facilities:	<ul style="list-style-type: none"> • University has a well planned and executed physical infrastructure • University takes initiative for augmentation of infrastructure to keep pace with the academic growth • University has adequate houses and quarters and hostels • Other facilities like indoor and outdoor sports, power backup, clean drinking water, shopping complex etc. available
2.4.2 Library as Learning Resources:	<ul style="list-style-type: none"> • Library Advisory Committee in place • Library has adequate number of books and e-resources with internet facilities • Library partially computerized and has INFLIBNET/ IUC facilities • Indigenous platform developed for e-resource utilization • Learning resource augmentation across disciplines requires attention • Adequate funding provided for Library
2.4.3 IT Infrastructure	<ul style="list-style-type: none"> • University has a central computing facility • Propriety license software while use of open source is limited. • 1GBPS NKN connectivity available • University Wi-Fi facilities needs strengthening • Smart classrooms need to be provided
2.4.4 Maintenance of Campus Facilities :	<ul style="list-style-type: none"> • Maintenance and upkeep of the infrastructure is organized and structured • Provision exists in annual budget for maintenance of campus facilities. • Maintenance of computers and other electronic equipment carried out through AMC.

2.5 Student Support and Progression:	
2.5.1 Student mentoring and Support:	<ul style="list-style-type: none"> • Student Mentoring System exists • Government Scholarship available for reserved category students • Accident Insurance Scheme for students available • Student welfare system including students grievances system, counselling, mentoring, career guidance need strengthening • More efforts needed for Training and Placement activities
2.5.2 Student Progression:	<ul style="list-style-type: none"> • Few students migrate from UG to PG. • Structured tracking system for graduated students to be implemented • Few students have cleared examinations such as NET, GATE, CAT etc.
2.5.3 Student Participation and Activities:	<ul style="list-style-type: none"> • University encourages students to participate in co-curricular and extra-curricular activities. • Limited participation in inter-institutional and national level sports and cultural events • More funding to be provided for participation and promotion of extra-curricular activities
2.6 Governance, Leadership And Management:	
2.6.1 Institutional Vision and Leadership:	<ul style="list-style-type: none"> • Vision, Mission Statements in Place • Meetings of statutory bodies held regularly • Efforts to be made to develop second rung of leadership
2.6.2 Strategy Development and Deployment:	<ul style="list-style-type: none"> • Long term Institutional strategy to be developed and mapped with finance resources • Some of the departments have NBA accreditation. • Grievance Redressal Mechanism to be more effective • Need to strengthen permanent affiliation and autonomy procedures for affiliated institutions
2.6.3 Faculty Empowerment Strategy:	<ul style="list-style-type: none"> • Recruitment processes for faculty follow Government guidelines • Skill upgradation through computer literacy for lower level staff,

	<ul style="list-style-type: none"> • University promotes professional development for teachers • University has structured service rules and regulations • To work towards retention policies for faculty
2.6.4 Financial management and Resource Mobilization:	<ul style="list-style-type: none"> • Effective use of financial resources using laid down financial code of state universities • External Audits by State AG in place • Resource mobilization through project overhead, consulting activities and CSR to be strengthened • Computerisation of Finance and Accounts needs attention
2.6.5 Internal Quality Assurance System:	<ul style="list-style-type: none"> • IQAC constituted recently • IQAC functional approach needs to be evolved • Documentation activities of IQAC needs to be automated
2.7 Innovations And Best Practices:	
2.7.1 Environmental Consciousness:	<ul style="list-style-type: none"> • Statutory requirement of environmental impact assessment conducted • Well maintained eco-friendly and energy efficient campus • Emphasis required for recycling and reuse of natural resources
2.7.2 Innovations:	<ul style="list-style-type: none"> • Cooling system installed in new buildings through earth air tunnel system • Indigenous development software for end to end examination process
2.7.3 Best Practices:	<ul style="list-style-type: none"> • Sharing university resources with neighborhood community • Restricted access to student's motorized vehicles

Section III: OVERALL ANALYSIS	
3.1 Institutional Strengths:	<ul style="list-style-type: none"> • Spacious, green and well laid out campus. • Good physical infrastructure. • Competent and dedicated faculty. • Good teaching to non-teaching staff ratio. • Legacy of an old engineering college. • Geographical locational advantage
3.2 Institutional Weaknesses:	<ul style="list-style-type: none"> • Vacant Teaching / Non Teaching Positions in University • Preparedness for future and competition • Relatively weak industrial linkages • Inadequate productive collaborative activities • Inadequate research and development funding from extra mural resources
3.3 Institutional Opportunities:	<ul style="list-style-type: none"> • Implementing ICT-based teaching-learning through blended learning • Increasing employability of outgoing students • Enhancing university image and visibility by active research Collaborations • Diversification of courses with inter disciplinary approach to provide greater flexibility and choice • Development of a futuristic strategic vision document with laudable goals and objectives
3.4 Institutional Challenges:	<ul style="list-style-type: none"> • Attracting international-quality teaching faculty. • Promotion of Autonomous college system thereby disburdening the university system from the load of affiliated colleges. • Achieving excellence in research and consultancy • Proactive administrative and financial autonomy to university departments and Principal investigators. • Ensure development of affiliating college along with the university • Evolving a structural quality assurance system to facilitate holistic quality initiatives

IV: Recommendations for Quality Enhancement of the Institution

- Faculty vacancies needs to be addressed on priority
- CBCS system to be introduced
- Architecture and Planning programme to be provided more space and facilities to meet the CoA requirements
- Increase funding research projects and consulting services
- Strengthen Training and placement activities along with career guidance initiatives
- Incubation and entrepreneurship initiatives to be started
- Increase international exposure and networking
- Initiate new quality and academic audit initiatives through IQAC
- Structured mechanism and implementation of faculty addressing grievances
- E-governance initiatives required to be strengthened
- Long term strategic vision plan to be prepared
- Facilitation for physically challenged persons required on the campus
- Anti-Plagiarism Software to be put in place
- Better exchange of information and sharing of knowledge between constituent units
- More capacity building programmes to be undertaken at regional and state level

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

Seal of the Institution

Signature of the Head of the Institution

Signature of the Peer Team Members:

Name	Designation	Signature with Date
Prof. H. P. Khincha (Former VC, VTU, Belgaum) (Professor (Retd) Dept. of Electrical Engineering, Indian Institute of Science, Bangalore) Resi: No. 11, 4 th Main Road Chamarajpet, Bengaluru-560012, Karnataka	Chairman	
Prof. Alok Kumar Rai Professor, Department of Management Studies, Banaras Hindu University, Varanasi – 221005,	Member Coordinator	

Uttar Pradesh		
Prof. D. N. Reddy (Former Vice Chancellor Jawaharlal Nehru Technological University) Resi: Plot No. 379, Swami Ayyappa Society, Madhapur, Hyderabad-500081, Telangana	Member	
Prof. K. Muthuchelian (Former Vice Chancellor, Periyar University, Salem) 2/133, Sakthi kudil, Palkalai Nagar Madurai – 625021, Tamil Nadu	Member	
Prof. S. P. Singh Professor & Head School of Energy & Environmental Studies Devi Ahilya Vishwavidyalaya Khandwa Road, Indore-4520001, Madhya Pradesh	Member	
Dr. J. B. Naik Professor University Institute of Chemical Technology, North Maharashtra University, Jalgaon – 425001, Maharashtra	Member	
Prof. Venkatesh V. Kamat Professor & Head Department of Computer Science Goa University, Taleigao Plateau Goa-403206	Member	
Prof. V. S. Adane Professor & Head Department of Architecture & Planning V. National Institute of Technology, Nagpur-440010 Maharashtra	Member	
Dr. Ganesh Hegde Deputy Adviser, NAAC Opposite to National Law School of India University Nagarbhavi, Bangalore-560072,	NAAC Coordinator	

Karnataka.		
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राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
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Quality Profile

Name of the Institution : Deenbandhu Chhotu Ram University of Science and Technology

Place : Murthal, Sonapat, Haryana

Criteria	Weightage (W_i)	Criterion-wise Weighted Grade Point ($Cr\ WGP_i$)	Criterion-wise Grade Point Averages ($Cr\ WGP_i / W_i$)
I. Curricular Aspects	150	450	3.00
II. Teaching-Learning and Evaluation	200	640	3.20
III. Research, Consultancy and Extension	250	690	2.76
IV. Infrastructure and Learning Resources	100	380	3.80
V. Student Support and Progression	100	340	3.40
VI. Governance, Leadership & Management	100	260	2.60
VII. Innovations and Best Practices	100	260	2.60
Total	$\sum_{i=1}^7 W_i = 1000$	$\sum_{i=1}^7 (Cr\ WGP_i) = 3020$	

$$\text{Institutional CGPA} = \frac{\sum_{i=1}^7 (Cr\ WGP_i)}{\sum_{i=1}^7 W_i} = \frac{3020}{1000} = \boxed{3.02}$$

$$\text{Grade} = \boxed{A}$$

Date : February 22, 2017



D. Singh
Director

- This certification is valid for a period of *Five* years with effect from February 22, 2017
- An institutional CGPA on seven point scale in the range of 3.76 - 4.00 denotes A⁺⁺ grade, 3.51 - 3.75 denotes A⁺ grade, 3.01 - 3.50 denotes A grade, 2.76 - 3.00 denotes B⁺⁺ grade, 2.51 - 2.75 denotes B⁺ grade, 2.01 - 2.50 denotes B grade, 1.51 - 2.00 denotes C grade
- Scores rounded off to the nearest integer