

PEER TEAM REPORT

ON

**Institutional Assessment & Accreditation
(Cycle-1)
of**

**YMCA UNIVERSITY OF
SCIENCE AND TECHNOLOGY
FARIDABAD, HARYANA (INDIA)
(Track ID- HRUNGN11528)**

VISIT DATES: OCTOBER 13-15, 2016

Submitted to



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P.O. Box. No. 1075, Nagarbhavi, Bengaluru – 560 072, Karnataka, India

PEER TEAM REPORT ON
Institutional Accreditation of
YMCA UNIVERSITY OF SCIENCE AND TECHNOLOGY
FARIDABAD, HARYANA (INDIA)

Section I: GENERAL	Information
1.1 Name & Address of the Institution	YMCA University of Science and Technology Sector-6, Mathura Road, NH-2, Faridabad, Haryana (INDIA)
1.2 Year of establishment:	2009
1.3 Current Academic Activities at the institution (Numbers):	
• Faculties:	03
• Departments/Centres/Institutes:	11 (Arts-01, Science-04, Engineering -05, Management -01)
• Programmes/Courses offered:	29 (UG-06, PG-15, Ph.D-08)
• Permanent Faculty Members:	116 (Male -57, Female- 59)
• Permanent Support Staff:	123 (84 NT + 39 Technical)
• Students:	2779 (Male-1775 + Female-1004)
1.4 Three major features in the institutional Context	<ol style="list-style-type: none"> 1. Well recognised brand name established in the state of Haryana 2. Contributed to the industrial growth in the vicinity by imparting skill based education 3. Shortage of Land/Space for future expansion
1.5 Dates of visit of the Peer Team	13-15 October, 2016 [A detailed visit schedule is appended]
1.6 Composition of the Peer Team which undertook the on-site visit:	
1. Prof. (Dr.) Avinash C. Pandey <i>Former Vice Chancellor, Bundelkhand University Allahabad, Uttar Pradesh</i>	2. Prof. (Dr.) A.M. Shah <i>The Business School, University of Kashmir, Srinagar, Jammu & Kashmir</i>
3. Prof. Karmeshu Professor, School of Computer and Systems Science, Jawaharlal Nehru University, New Delhi	4. Dr. A.K.D.Dwivedi Executive Director (Scientist 'G'), National Institute of Electronics and Information Technology (An Autonomous Establishment of MCIT, Govt Of India), Gorakhpur, Uttar Pradesh
5. Prof. Brajabandhu Pradhan <i>Former Professor, Department of Mechanical Engg., IIT Kharagpur Bhubaneswar, Odisha (INDIA)</i>	6. Prof. Khedkar Mohan Krishnarao <i>Former Vice Chancellor, Sant Gadge Baba Amravati University Professor, Dept. of Electrical Engineering, Visvesvaraya National Institute of Technology, Nagpur, Maharashtra</i>
7. Prof. C. Umashankar Registrar, Rashtriya Sanskrit Vidyapeeth, Tirupati, Andhra Pradesh	
NAAC Officer	
Dr. (Mrs.) K. Rama Adviser, National Assessment and Accreditation Council (NAAC), P.O. Box No. 1075, Nagarbhavi, Bangalore, Karnataka	

Section II: CRITERION WISE ANALYSIS

<p>2.1 Curricular Aspects:</p> <p>2.1.1 Curriculum Design & Development</p>	<ul style="list-style-type: none"> • Curriculum designed/ developed in consonance with University vision/ as per UGC guidelines. • Curriculum focuses on blending of theoretical and practical knowledge of the subjects. • Inputs obtained from some stakeholders for designing curriculum.
<p>2.1.2 Academic flexibility</p>	<ul style="list-style-type: none"> • Semester system followed with a choice of electives. • Credit system adopted in all courses. • Supernumerary lateral entry admission permitted in MCA and B. Tech programs as 20% of sanctioned strength.
<p>2.1.3 Curriculum Enrichment</p>	<ul style="list-style-type: none"> • Syllabi of most of the subjects have a field based and/or internship based training. • Curriculum needs revision to include recent developments in the concerned subjects. • MOU signed with Edubotix Innovations Pvt. Ltd for providing enrichment courses. • Value added courses yet to be offered.
<p>2.1.4 Feedback System</p>	<ul style="list-style-type: none"> • University has 360° feedback portal on the website apart from feedback taken in the classrooms/ departments. • Mechanism of obtaining feedback on curriculum from subject experts and industry exists.
<p>2.2 Teaching- Learning & Evaluation:</p> <p>2.2.1 Student Enrolment and Profile</p>	<ul style="list-style-type: none"> • Admission process well defined, its publicity through website, prospectus, print and electronic media. • Admissions to professional courses made through JEE/GATE/CMAT and others through entrance tests. • Reservation policy as stipulated by the state government followed. • Demand for courses is high.
<p>2.2.2 Catering to Student Diversity</p>	<ul style="list-style-type: none"> • Orientation/induction programs are conducted for freshers. • Assessment of learning levels of students after admissions done/ programs designed for slow learners.

	<ul style="list-style-type: none"> • Community college is being run as a part of 'skill India Mission' initiative by Govt. of India.
2.2.3 Teaching-Learning Process	<ul style="list-style-type: none"> • Academic calendar is prepared well in advance and strictly followed. • Participatory learning based on student presentations/ case studies/ seminars/ field works/ projects etc. • Experts from reputed Institutions/ Industries/ social organizations invited for delivering lectures.
2.2.4 Teacher Quality	<ul style="list-style-type: none"> • Out of 116 permanent faculty members, 60 are Ph.D and 04 are M Phil degree holders. • Most of the teachers have obtained Ph.D from well established institutions. • Faculty encouraged to attend FDPs/ Refresher courses/ Workshops regularly for improving their academic capabilities.
2.2.5 Evaluation Process and Reforms	<ul style="list-style-type: none"> • Evaluation process is carried out through well defined evaluation system ensuring transparency and security. • Results are declared within 10-15 days from the last date of examination. • Grievance redressal mechanism exists.
2.2.6 Student Performance and Learning Outcomes	<ul style="list-style-type: none"> • Graduate attributes defined and outcome monitored. • Pass percentage is very good in all programs. • Data on students learning outcomes needs to be utilized for planning the learning processes.
2.3 Research, Consultancy & Extension:	
2.3.1 Promotion of Research	<ul style="list-style-type: none"> • Research degree committee oversees research activities and monitors quality of research. • Collaborations with national/ international institutions for carrying out inter-disciplinary research promoted. • Faculty encouraged/ sponsored to attend national/ international conferences/ seminars.
2.3.2 Resource Mobilization for Research	<ul style="list-style-type: none"> • About Rs. 4 cr. received out of Rs. 10 cr. sanctioned by different funding agencies/ Industries. • Four Departments awarded projects under UGC SAP/ CAS/ DST/ FIST etc.

2.3.3 Research Facilities	<ul style="list-style-type: none"> • Special laboratories established with the support of the industries. • Infrastructural facilities need improvement for conducting quality research.
2.3.4 Research Publications and Awards	<ul style="list-style-type: none"> • Brings out a news letter-YMCA Bulletin, and a Journal-YMCAUST International Journal of Research. • Faculty has published 1634 research papers, most of them not in SCI/SSCI journals. • Some teachers have received awards for excellence in teaching/research.
2.3.5 Consultancy	<ul style="list-style-type: none"> • Faculty members are encouraged to engage in consultancy work and Rs. 0.5 cr. generated through consultancy/CSR/Industry linkages etc. • University-Industry Cell has been established for developing linkages with the industry.
2.3.6 Extension Activities and Institutional Social Responsibility	<ul style="list-style-type: none"> • NCC and NSS engage in various extension activities on regular basis. • Students frequently conduct programs in the form of “Nukkad Nataka” to spread awareness on various social issues.
2.3.7 Collaborations	<ul style="list-style-type: none"> • University has signed MOU with national/international institutions for research collaborations. • University/ Industry interaction has resulted in creation of two Centres of Excellence in the form of Laboratories.
2.4 Infrastructure and Learning Resources: 2.4.1 Physical Facilities	<ul style="list-style-type: none"> • University is spread over an area of 20 acres of land with a built up area of 38444 sq. Mts. • Excellent Workshop facilities exist. • Well equipped class rooms, labs, computer center, Auditorium/seminar halls, Cafeteria, sports facilities, Health Centre, etc. • Inadequate facilities for Physically challenged persons.
2.4.2 Library as a Learning Resource	<ul style="list-style-type: none"> • Library has 7200 sq ft area with seating capacity for 155 students. • Library has 67000 books, 105 printed national/international journals and 5990 e-journals.

	<ul style="list-style-type: none"> • Inadequate number of standard reference books. • Library is partially computerized and is OPAC enabled/obtained membership of DELNET.
2.4.3 IT Infrastructure	<ul style="list-style-type: none"> • Teachers are provided with laptops and/or desktop with other peripherals. • Systems and necessary software available. • Wi-Fi/LAN connectivity provided on the campus.
2.4.4 Maintenance of Campus facilities	<ul style="list-style-type: none"> • University Maintenance Department oversees the maintenance of campus facilities. • Waste management facility outsourced.
2.5 Student Support and Progression:	
2.5.1 Student Mentoring and Support	<ul style="list-style-type: none"> • Career and Counselling Cell provides counselling to the students. • Centralized placement cell takes care of placements and most of the students are placed through campus interviews. • Guidance/coaching to students for appearing in Civil Services, NET/SLET and other competitive examinations needs to be provided.
2.5.2 Student Progression	<ul style="list-style-type: none"> • Most of the students complete their degrees within stipulated time span. • Number of students appearing/ qualifying national level examinations is impressive. • Good number of students qualified GATE/ CAT.
2.5.3 Student Participation and Activities	<ul style="list-style-type: none"> • Participation of students in sports, co-curricular and extra-curricular activities is encouraged. • Different activities of sports, cultural, literary education etc. are regularly organized. • Student Council Cell needs to be established for promoting the extra-curricular activities more effectively.
2.6 Governance Leadership and Management:	
2.6.1 Institutional Vision and Leadership	<ul style="list-style-type: none"> • Vision and mission of institution clearly defined, reflected in academic, and other activities. • Participative management practices are promoted. • Efforts directed towards nurturing and reinforcing the culture of excellence.
2.6.2 Strategy development and deployment	<ul style="list-style-type: none"> • Comprehensive organizational structure and decision-making system is in place. • Mechanism to maintain quality, monitor performance /continuous improvement in place.

	<ul style="list-style-type: none"> • Administrative and academic audit is conducted to review functioning of the Departments.
2.6.3 Faculty Empowerment Strategies	<ul style="list-style-type: none"> • Performance appraisal of staff is done as per the UGC guidelines. • Participation of faculty in FDPs, workshops and conferences is encouraged. • Gender sensitization and women's empowerment Cell needs to be further strengthened.
2.6.4 Financial Management and Resource Mobilization	<ul style="list-style-type: none"> • Resource mobilization is mainly through Govt. funding, tuition fees, research projects etc. • Adequate budgetary provision for academic and administrative activities. • Alumni contribution to fund raising including installation of some equipments impressive. • Both internal and external audit is carried out annually.
2.6.5 Internal Quality Assurance System	<ul style="list-style-type: none"> • IQAC devised appropriate methodology to facilitate quality assessment and performance improvement. • Quality assurance is promoted through continuous monitoring of teaching and learning process. • IQAC has three external experts as members.
2.7 Innovations and Best Practices:	
2.7.1 Environmental Consciousness	<ul style="list-style-type: none"> • Special emphasis is on development and preservation of an eco-friendly environment. • Rain water harvesting and energy conservation practices are in place. • e-waste management policy as per government norms.
2.7.2 Innovations	<ul style="list-style-type: none"> • Innovative projects designed and developed by students. • Established Robotics Laboratory in the Dept. of Computer Engineering in collaboration with Edubotix Innovations Ltd, DAIKIN and DANFOSS Labs for innovative purposes.
2.7.3 Best Practices	<ul style="list-style-type: none"> • One semester/ six months student's training in industry for 4th year engineering students (7th/8th semester). • Sizeable number of students are engaged in innovative projects. • Started grievance portal on the university website

	<p>for obtaining feedback/ grievances from students/ alumni.</p> <ul style="list-style-type: none"> • Development of Apps by the students, especially for Training & Placement works. • Very good Skill Development programs for employability enhancement of the students.
Section III: OVERALL ANALYSIS	
3.1 Institutional Strengths	<ul style="list-style-type: none"> • Established a brand name, as most preferred higher education destination for the students in Haryana state. • Good infrastructural facilities for teaching-learning, sports and extra-curricular activities. • Use of ICT in teaching-learning process. • Two Labs established as centres of excellence in collaboration with the industry. • Harmonious relationship among all the stakeholders of the institution.
3.2 Institutional Weaknesses	<ul style="list-style-type: none"> • Space crunch is coming in the way of future expansion. • Shortage of staff quarters for making the university a residential campus. • Shortage of funds for renovation and architectural facelift to buildings.
3.3 Institutional Challenges	<ul style="list-style-type: none"> • Higher salaries in IT sector leading to reduced attraction of potentially competent faculty and staff towards teaching profession. • Future expansion of the campus. • Industry oriented curriculum and implementation. • Establishing well-stocked digital library.
3.4 Institutional Opportunities	<ul style="list-style-type: none"> • Offering consultancy in advanced technological solutions in solving community problems especially energy, ecology & environmental issues. • Attracting students from different countries and cultures. • Strengthening M.Sc/M.A programmes launched recently. • Signing MOUs with leading academic institutions/ industries. • Corporate training, consultancy and placement.

Section IV: Recommendations for Quality Enhancement of the Institution

- The courses offered recently like M.Sc-Physics, Chemistry, Environmental Sciences, Mathematics and M.A- Mass Communication be strengthened and established in separate Departments.
- Faculty may be motivated to submit research projects to different funding agencies and engage in consultancy work for mobilization of more funds.
- Library resources need to be augmented by adding standard and latest reference books in all courses, and additional efforts made for digital library needed.
- Student support services such as extended hours of library, drinking water, reprographic facility, tutorials, adequate furniture in class rooms be provided.
- Innovation hub along with fabrication lab and monetary support for innovative projects and proper place for cafeteria must be arranged.
- Proper grooming/ additional support need to be provided to students coming from humble backgrounds/ slow learners.
- University should look for second campus for future expansion and evolve as a modern University.
- Synergy be developed between basic science and engineering Departments for interdisciplinary interaction.
- Elective courses on statistical methods, mathematical modeling and optimisation be offered to enhance analytical skills of the students.
- Communication lab be strengthened for improving communication skills of the students.

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

Signature of the Head of the Institution
with date & Seal

Signatures of the Peer Team Members:

SI No.	Name	Designation	Signature with Date
1.	Prof. (Dr.) Avinash C. Pandey	Chairperson	
2.	Prof. (Dr.) A.M. Shah	Member Coordinator	
3.	Prof. Karmeshu	Member	
4.	Prof. A.K.D. Dwivedi	Member	
5.	Prof. Brajabandhu Pradhan	Member	
6.	Prof. Khedkar Mohan Krishnarao	Member	
7.	Prof. C. Umashankar	Member	
	Dr. K. Rama	NAAC Officer	



राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद
विश्वविद्यालय अनुदान आयोग का स्वायत्त संस्थान
NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL
An Autonomous Institution of the University Grants Commission

Quality Profile

Name of the Institution : YMCA University of Science and Technology

Place : Sector-6, Faridabad, 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	650	3.25
III. Research, Consultancy and Extension	250	740	2.96
IV. Infrastructure and Learning Resources	100	300	3.00
V. Student Support and Progression	100	340	3.40
VI. Governance, Leadership & Management	100	300	3.00
VII. Innovations and Best Practices	100	300	3.00
Total	$\sum_{i=1}^7 W_i = 1000$	$\sum_{i=1}^7 (Cr\ WGP_i) = 3080$	

$$\text{Institutional CGPA} = \frac{\sum_{i=1}^7 (Cr\ WGP_i)}{\sum_{i=1}^7 W_i} = \frac{3080}{1000} = \boxed{3.08}$$

Grade = A

Date : November 05, 2016



Al Singh
Director

- This certification is valid for a period of Five years with effect from November 05, 2016
- 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