



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

Certificate of Accreditation

*The Executive Committee of the
National Assessment and Accreditation Council
on the recommendation of the duly appointed
Peer Team is pleased to declare the
Madhav Institute of Technology and Science
Gwalior, affiliated to Rajiv Gandhi Proudyogiki Vishwavidyalaya,
Madhya Pradesh as
Accredited
with CGPA of 2.86 on seven point scale
at B⁺⁺ grade
valid up to September 11, 2022*

Date : September 12, 2017



Alkesh
Director





राष्ट्रीय मूल्यांकन एवं प्रत्यायन परिषद

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Quality Profile

Name of the Institution : Madhav Institute of Technology and Science

Place : Gwalior, Madhya Pradesh

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	400	2.67
II. Teaching-Learning and Evaluation	300	960	3.20
III. Research, Consultancy and Extension	150	380	2.53
IV. Infrastructure and Learning Resources	100	270	2.70
V. Student Support and Progression	100	360	3.60
VI. Governance, Leadership & Management	100	260	2.60
VII. Innovations and Best Practices	100	230	2.30
Total	$\sum_{i=1}^7 w_i = 1000$	$\sum_{i=1}^7 (Cr WGP_i) = 2860$	

$$\text{Institutional CGPA} = \frac{\sum_{i=1}^7 (Cr WGP_i)}{\sum_{i=1}^7 W_i} = \frac{2860}{1000} = \boxed{2.86}$$

Grade = $\boxed{B^{++}}$

Date : September 12, 2017



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Director

- This certification is valid for a period of *Five* years with effect from September 12, 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

**Peer Team Report
on
Institutional Accreditation
of
Madhav Institute of Technology & Science**

Race Course Road, Gola ka Mandir,
Gwalior 474005

Madhya Pradesh

(Dates of visit August 21-22, 2017)

(1st Cycle)



NATIONAL ASSESSMENT AND ACCREDITATION COUNCIL

An Autonomous Institution of the University Grants Commission

P.O. Box No. 1075, Nagarbhavi, Bangalore - 560 072, INDIA

**PEER TEAM REPORT ON
Institutional Accreditation of
Madhav Institute of Technology & Science,
Gwalior-474005, Madhya Pradesh**

Section I: GENERAL	Information
1.1 Name & Address of the Institution:	Madhav Institute of Technology & Science, PO: Residency, Race Course Road, Gola ka Mandir, Gwalior 474005, Madhya Pradesh
1.2 Year of Establishment:	1957
1.3 Current Academic Activities at the Institution (Numbers):	As given by college
• Faculties / Schools:	01
• Departments / Centers:	10
• Programmes / Courses offered:	UG – 11, PG – 18, PhD - 10
• Permanent Faculty Members:	86
• Permanent Support Staff:	71 + 84 = 155
• Students:	4339 (UG-3874, PG-465)
1.4 Three major features in the institutional Context:	<ul style="list-style-type: none"> • Campus with substantial open area and tree plantation • Old institute with government aid • College is in periphery of the city.
1.5 Dates of visit of the Peer Team:	21 st August to 22 nd August 2017 1 st Cycle
1.6 Composition of the Peer Team which undertook the on- site visit:	
Chairperson	Prof. Sujit K. Biswas
Member Co-ordinator	Prof. G. Ranganath
Member	Prof. T. P. Singh
NAAC Officer:	Dr. Jagannath Patil

Subin
22/8/17

DIRECTOR
Madhav Institute of Technology & Science,
Gwalior - 474005 (M.P.)

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<p>Section II: CRITERION WISE ANALYSIS</p>	
<p>2.1 Curricular Aspects (150)</p>	
<p>2.1.1 Curriculum Design and Development (50)</p>	<ul style="list-style-type: none"> • Course content developed by BOS after autonomy. • Board of Studies should conduct more meetings at regular intervals. • Topics of advanced technology to be included.
<p>2.1.2 Academic Flexibility (50)</p>	<ul style="list-style-type: none"> • Institution follows Semester system • CBCS to be re-implemented. • Frequency of value added and enrichment program should increase.
<p>2.1.3 Curriculum Enrichment (30)</p>	<ul style="list-style-type: none"> • Evidences of expert lectures from academia, industry for skill development. • Remedial classes organized. • Skill based development programs should be initiated for better employment opportunities.
<p>2.1.4 Feedback System (20)</p>	<ul style="list-style-type: none"> • Formal Feedback system exists. • Lack of feedback visualization in curriculum development.
<p>2.2 Teaching-Learning & Evaluation (300)</p>	
<p>2.2.1 Student Enrolment and Profile. (30)</p>	<ul style="list-style-type: none"> • Admission process is transparent and follows university norms/Govt. guidelines. • Government/Affiliating University does the counseling & sends the list to College.
<p>2.2.2 Catering to Student Diversity. (40)</p>	<ul style="list-style-type: none"> • College organizes induction / orientation programs for fresher's. • Remedial coaching is given to academically weaker students. • Additional encouragement and motivation needed for advanced learners.
<p>2.2.3 Teaching-Learning Process. (100)</p>	<ul style="list-style-type: none"> • Several classes are provided with overhead projectors • Guest expert lectures, NPTEL lecture series, are used for effective teaching. • More students centered learning to be promoted.

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Surat - 394005 (M.P.)

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<p>2.2.4 Teacher Quality. 60% (60)</p>	<ul style="list-style-type: none"> Nearly 34% faculty have Ph.D, 60% have M.E/MTech/M.Phil. degrees and the remaining faculty members have BE/B.Tech./BArch degrees. Senior level faculty at Professor and Associate Professor is inadequate in number. More faculty members be encouraged and financially supported to participate Faculty Development Programs/Seminars.
<p>2.2.5 Evaluation Process and Reforms. 30% (30)</p>	<ul style="list-style-type: none"> Redressal of grievances is in place. Institute academic calendar is adhered to. Follows the evaluation process as per the affiliating university guidelines.
<p>2.2.6 Student Performance and Learning Outcomes. 40% (40)</p>	<ul style="list-style-type: none"> High Pass percentage of students. Efforts are to be made to deploy new technologies for enhanced students learning. To enhance learning outcomes, novel pedagogical tools be adopted
<p>2.3 Research, Consultancy & Extension (150)</p>	
<p>2.3.1 Promotion of Research 20% (20)</p>	<ul style="list-style-type: none"> Faculty to be encouraged to publish research papers in peer reviewed journals with good impact factor. Some external funded projects exist; however steps can be taken to get more funded projects. Laboratory infrastructure should be upgraded to facilitate research activities.
<p>2.3.2 Resource Mobilization for Research 20% (20)</p>	<ul style="list-style-type: none"> Institutional budgetary provision for research to be made available. More departments may be encouraged to apply for external funding from the funding agencies like DST, AICTE, UGC etc. Step to be taken to enter MoU with industries to have joint research activities.
<p>2.3.3 Research Facilities 20% (20)</p>	<ul style="list-style-type: none"> E-journal facility access all over campus through wi-fi. Efforts are to be made by the institution to improve its infrastructure requirement to enhance research activities. Institution should create specialized research center in the campus
<p>2.3.4 Research Publications and Awards 20% (20)</p>	<ul style="list-style-type: none"> Number of publications in refereed journals and their quality need to be enhanced. Inter disciplinary research to be undertaken. Some faculties are carrying research activities.
<p>2.3.5 Consultancy 10% (10)</p>	<ul style="list-style-type: none"> Faculty to put more effort to attract consultancy activity Some revenue generation exist need to be enhance.

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2.3.6 Extension Activities and Institutional Social Responsibility 50% = 50 (50)	<ul style="list-style-type: none"> • NSS organized blood donation camp, tree plantation drive, cleanliness drive, awareness camps etc. • Institute adopted a village from 2011 through NSS. • NCC unit exist in the campus.
2.3.7 Collaborations 10% = 10 (10)	<ul style="list-style-type: none"> • Formal academic collaborations are in place with some industries/organizations. • Joint R&D activities should be encouraged. • Initiate exchange program with industries.
2.4 Infrastructure and Learning Resources (100)	
2.4.1 Physical Facilities 30% = 30 (30)	<ul style="list-style-type: none"> • Augmentation of Teaching & learning, laboratories and Computing facilities required. • Sports facility need to be upgraded. • Medical facilities exist in the campus. • Facilities for differently-abled persons need to be improved.
2.4.2 Library as a Learning Resource 20% = 20 (20)	<ul style="list-style-type: none"> • Central Library is automated. • All Libraries have potential for improvement. • Central library facilities need to be improved in the area of reference books and journals procurement.
2.4.3 IT Infrastructure 30% = 30 (30)	<ul style="list-style-type: none"> • Campus & Library are Wi-Fi enabled. • Internet bandwidth of 100 Mbps leased line available with back-up support. • Computer system needs to be augmented.
2.4.4 Maintenance of Campus Facilities 20% = 20 (20)	<ul style="list-style-type: none"> • Campus and buildings is clean and well maintained. • Concept of green campus is there.
2.5 Student Support and Progression (100)	
2.5.1 Student Mentoring and Support 40% = 40 (40)	<ul style="list-style-type: none"> • Co-curricular and extracurricular activities exist in campus. • Institute has active Anti-ragging and Woman grievances cell. • Campus students' placement exists. However placement rate is to be improved, efforts to attract more Companies in future particularly core companies. • Scholarship be made available for economically weaker students academic support.
2.5.2 Student Progression 40% = 40 (40)	<ul style="list-style-type: none"> • Institute has very good pass percentage. • Initiated good effort to track student progression. • Good number of students qualify GATE.
2.5.3 Student Participation and Activities 20% = 20 (20)	<ul style="list-style-type: none"> • Students participate in different cultural activities.

	<ul style="list-style-type: none"> • Students are encouraged to publish paper. • Students organize and also participate in seminars, workshops, conferences.
2.6 Governance, Leadership and Management: (100)	
2.6.1 Institutional Vision and Leadership (107)	<ul style="list-style-type: none"> • Institutional vision and mission are in tune with objectives of higher education. • Emphasis is on overall students' development. • Cumulative efforts and involvement is required to achieve the institutional vision.
2.6.2 Strategy Development and Deployment (10)	<ul style="list-style-type: none"> • Development plans like civil infrastructure are deployed • Action plan and schedules for its future Development is exists. • Feedback system from all stake holders exists.
2.6.3 Faculty Empowerment Strategies (30)	<ul style="list-style-type: none"> • Faculty members encouraged to participate in professional development programs such as FDP/ Seminars, etc. • Decentralization of financial powers is required down the line to Deans/HODs. • Welfare schemes to be enhanced.
2.6.4 Financial Management and Resource Mobilization (20)	<ul style="list-style-type: none"> • Financial management and resource mobilization is centered to only the Institute Director. • Enough funds for Library should be created and shown as a part of the budget with reference to sanctioned students. • Research budget be clearly specified and more efforts be made for mobilizing external resources.
2.6.5 Internal Quality Assurance System (30)	<ul style="list-style-type: none"> • IQAC cell exists, needs to be made effective. • IQAC be encouraged to take up academic audit.
2.7 Innovations and Best Practices (100)	
2.7.1 Environment Consciousness (30)	<ul style="list-style-type: none"> • Environment consciousness is implicitly reflected from the well maintained campus. • Rain water harvesting exist. • Efforts to be made for utilizing solar energy.
2.7.2 Innovations (30)	<ul style="list-style-type: none"> • Students are involved in innovative project work • Entrepreneurship Development Centre exists in the campus. • A special cell for Innovative project guidance and execution should be established
2.7.3 Best Practices (40)	<ul style="list-style-type: none"> • Institution conducts energy audit. • Remedial Classes are in place • Mentor system is in place.

Submitted
22/8/17
Madhav Institute of Technology & Science

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Suryapet 507 106
47-4995 (M.P.)

22/8/17

<p>Section III: OVERALL ANALYSIS</p>	
<p>3.1 Institutional Strengths</p>	<ul style="list-style-type: none"> • Good physical infrastructure and a supportive management. • Ample space for future growth • Good student pass percentage • Student support system exists. • Professional bodies activities is existing. • Institute has secure TEQIP grants. • Registered Alumni association exist.
<p>3.2 Institutional Weaknesses</p>	<ul style="list-style-type: none"> • Student-Faculty ratio is poor. • Few faculty members are only B.Tech. degree holders. • Research and consultancy is to be enhanced • Latest Books, Journals, should be enhanced. • Only one programme has valid accreditation by NBA.
<p>3.3 Institutional Opportunities</p>	<ul style="list-style-type: none"> • Should build linkages with other institutions and industries. • Larger number of UG/PG programme to be targeted for NBA accreditation. • Institute can plan to open more center of excellence in future.
<p>3.4 Institutional Challenges</p>	<ul style="list-style-type: none"> • Attraction of qualified senior faculty from across the country. • Motivating for quality research publications. • Enhancing campus placements and also to invite companies for placements in core areas. • Involvement of Alumni and resourceful stakeholders to create synergies for mutual benefit.

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Submission
22/8/17

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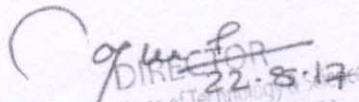
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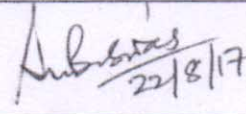
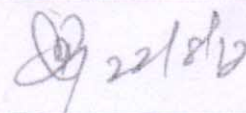
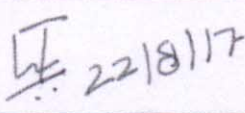
Section IV: Recommendations for Quality Enhancement of the Institution

- Student Faculty Ratio needs to be improved.
- Fund mobilization from Alumni to be pursued for the development of the institute.
- Communication and soft skills of students need improvement.
- Computers and laboratory should be enhanced and old equipment should be replaced with advance technology.
- Collaboration with Industry, other Institutions, to be taken up for all disciplines for better employability.
- Invite Professor Emeritus, Chair Professor, Adjunct Faculty, Visiting Professors and Visiting Fellow from other reputed institutions, research organizations and industries to strengthen teaching-learning process.
- Strengthen IQAC for quality enhancement.
- Should explore the possibilities of utilizing nonconventional energy resource in the campus.

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


 Signature of the Head of the Institution
 Seal of the Institution

Signatures of the Peer Team Members:

Name and Designation		Signature with date
Prof. Sujit K. Biswas	Chairperson	 22/8/17
Prof. G. Ranganath	Member Co-ordinator	 22/8/17
Prof. T. P. Singh	Member	 22/8/17
Dr. Jagannath Patil	NAAC Advisor	

Place: Gwalior

Date: 22nd August, 2017