Yearly Status Report - 2018-2019

Part A	
Data of the Institution	
1. Name of the Institution	**MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES**
Name of the head of the Institution	**Dr. Sanjay Srivastava**
Designation	**Vice Chancellor**
Does the Institution function from own campus	**Yes**
Phone no/Alternate Phone no.	**01294198375**
Mobile no.	**9560299099**
Registered Email	**vc@mriu.edu.in**
Alternate Email	**dss@mrei.ac.in**
Address	**Sector 43 Aravalli Hills Delhi Surajkund Road, Faridabad**
City/Town	**Faridabad**
State/UT	**Haryana**
Pincode	**121004**

2. Institutional Status

University	**Deemed**
Type of Institution	**Co-education**
Location	**Urban**
Financial Status	**private**
Name of the IQAC co-ordinator/Director	**Dr. Dipali Bansal (during AQAR) - Now Dr. Rashima Mahajan**
Phone no/Alternate Phone no.	**01294198304**
Mobile no.	**9910105725**
Registered Email	**director.qa@mriu.edu.in**
Alternate Email	**pvc@mriu.edu.in**

3. Website Address

Web-link of the AQAR: (Previous Academic Year)	https://manavrachna.edu.in/international-institute-of-research-and-studies/aqar/

4. Whether Academic Calendar prepared during the year

4. Whether Academic Calendar prepared during the year	**Yes**
if yes,whether it is uploaded in the institutional website: Weblink :	https://manavrachna.edu.in/wp-content/uploads/2019/12/MRIIRS_Academic_Calendar_208-19.pdf

5. Accrediation Details

Cycle	Grade	CGPA	Year of Accrediation	Validity	
				Period From	Period To
1	**A**	**3.05**	**2015**	**16-Nov-2015**	**15-Nov-2020**

6. Date of Establishment of IQAC

31-Jul-2009

7. Internal Quality Assurance System

Quality initiatives by IQAC during the year for promoting quality culture

Item /Title of the quality initiative by IQAC	Date & Duration	Number of participants/ beneficiaries
Awareness Training Programme on ISO 9001	21-Jul-2018 1	28
Faculty Induction Program	04-Aug-2018 1	26
One week workshop for Teaching Methodology	26-Nov-2018 5	80
Training Program on Quality Management and ISO 9001:2015	10-Dec-2018 5	44
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8. Provide the list of Special Status conferred by Central/ State Government-UGC/CSIR/DST/DBT/ICMR/TEQIP/World Bank/CPE of UGC etc.

Institution/Department/Faculty	Scheme	Funding Agency	Year of award with duration	Amount
Centre of Advance Water Technology Management, MRIIRS	Innovation Hub for Urban WASH	National Institute of Urban Affairs (NIUA)	2017 730	2300000
Commerce/ Faculty of Commerce and Business Studies	NewGen	NSTEBD, DST, Govt. of India	2017 1825	28700000
Civil Engineering / Faculty of Engineering and Technology	Delhi Air Quality Experiment: A Paradigm Shift in Source Apportionment	Central Pollution Control Board, Govt. of India	2019 730	52730983
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9. Whether composition of IQAC as per latest NAAC guidelines:	**Yes**
Upload latest notification of formation of IQAC	View File
10. Number of IQAC meetings held during the year :	**4**
The minutes of IQAC meeting and compliances to the decisions have been uploaded on the institutional website	**Yes**
Upload the minutes of meeting and action taken report	View File

11. Whether IQAC received funding from any of the funding agency to support its activities during the year?	Yes
If yes, mention the amount	1030000
Year	2018

12. Significant contributions made by IQAC during the current year(maximum five bullets)

• Regular quarterly meetings of Internal Quality Assurance Cell (IQAC) held during the year and timely submission of AQAR to NAAC. • Process of online collation of Feedback on Curricula and Generic Facilities through icloud EMS was institutionalized. Feedback from various stakeholders collected in the form of Student Feedback, Alumni Feedback, Employer Feedback, Parents Feedback, and Faculty Feedback. Response from various stakeholder were analysed, recommendations on Curricula were approved in IQAC for due deliberations in BoS and Academic Council for subsequent introduction of new courses, new programmes, value added courses and modifications in existing courses. • Four B.Tech progrmmmes were Accredited by MBA for three years in October 2018: B.Tech Biotechnology, B.Tech Computer Science Engineering, B.Tech Electronics Communication Engineering, B.Tech Mechanical Engineering under Tier 1. • Participated in NIRF under the category of Engineering, Management, and Overall and Ranked 164 for Engineering and 151200 for Overall Category. • Following Policies along with their SoPs were institutionalized: 1. Revised Policy on Teaching, Learning and Evaluation 2. Revised Policy on Student Mentorship: Vertical Mentorship System to be incorporated from the coming AY201920 3. Policy on Research, Innovation and Incubation 4. Revised Policy on Scholarship • ICT integration for Examination Processes: 1. Digitalization of Internal/Sessional Results: Internal marks were put on ERP and thus digitalized internal. 2. Program Outcome/Program Specific Outcome and Course outcome attainment are computed by using both Direct and Indirect Tools through icloud EMS itself. Course exit, Program exit and Alumni surveys are conducted for computation of attainment through indirect tools. 3. Admit cards to be issued to students for End semester examination are generated through EMS. A total of 1306 degrees and transcripts were uploaded at National Academic Depository (NAD) under Digital initiatives taken by Examination Cell. • Quality initiatives taken by Examination Cell during AY201819: i) Improvement in the quality of question papers was done by introduction of the Bloom's Taxonomy and mapping of COs in the format of question paper. ii) Improvement in the design of transcript was done by making it compact on a single sheet/page. iii) Improvement in the Infrastructure by creating a confidential room for moderation of question papers was done. iv) Improvement in the infrastructure to improve the security of Exam Branch by Installation of CCTV and Biometric entry for office and strong room was done. v) Time taken to declare the result was reduced from previous academic year average of 12.30 days to 12.01 days this academic year. vi) Grievance percentage was reduced from 4.79 of the previous academic year to 4.13 this academic year, thereby corroborating the improving efficacy of our system. • Formats of departmental Academic Administration Audit (AAA) has been revised as per NAAC guidelines. Academic and Administrative Audit (AAA) got conducted for all the departments of the University by involving members from IQAC, External member and one representative from the concerned Department. • Initiated the process of ISO Certification for the following units/departments of the University: Library, Examination, Training and Placement Cell. • Initiated the preparation of Handbooks for different Stakeholders (Student, Alumni, Recruiters).

13. Plan of action chalked out by the IQAC in the beginning of the academic year towards Quality Enhancement and outcome achieved by the end of the academic year

Plan of Action	Achivements/Outcomes
FDP on Bloom's Taxonomy Resource Person: Ms. Amrita Sachdeva-Corporate Training Expert)	FDP on Bloom's Taxonomy was attended by 26 participants on 16th Feb 2019. Faculty members would be able to draft the course outcomes which will be measurable as per the Bloom's Levels.
FDP on Improving the Quality of Teaching Methodology (Resource Person: Dr. Sandeep Grover-YMCA, Prof Etinder Singh-Apeejay School of Management, Dr. Madhvi Vij-University of Delhi and Mr. Ciby James-American Society of Quality, India)	FDP on Improving the Quality of Teaching Methodology was conducted from 26th-30th Nov 2018. It was attended by more than 50 participants.
Awareness Training Programme on ISO:9001 (Resource Person: Dr. Sunil Thaman, Global Principal Consultant on Management System Accreditation, IRCA-Approved Lead Trainer 9001/14001/45001.)	Awareness Training Programme on ISO:9001 was organized on 21st July 2018 for all the Deans, Directors, HoDs and representatives of central units.
Preparation for sending the AQAR (NAAC format) for the year 2017-2018.	AQAR for the year 2017-18 prepared and submitted to the NAAC well on time

14. Whether AQAR was placed before statutory body ?	**Yes**

Name of Statutory Body	Meeting Date
Board of Management	27-Sep-2019

15. Whether NAAC/or any other accredited body(s) visited IQAC or interacted with it to assess the functioning ?	**Yes**
Date of Visit	24-Aug-2018
16. Whether institutional data submitted to AISHE:	**Yes**
Year of Submission	2019
Date of Submission	06-Feb-2019

17. Does the Institution have Management Information System ?	Yes
If yes, give a brief descripiton and a list of modules currently operational (maximum 500 words)	Manav Rachna International Institute of Research and Studies (MRIIRS) has subscribed to a comprehensive icloud EMS (Education Management System) which provides integrated solution to enhance and digitize the processes like Admissions, Fee, Student's academic life cycle, Employee's Profile, Transport, Hostel, Feedback, Grievance, Recruitment HR processes and other administrative operations in the university through its web mobile based applications. Salient features of all the modules are listed below: 1. Admission and Student Module • Online Application form • Merit list preparation • Verification of eligibility criteria, Data scrutiny, uploading/verification of required documents, Temporary batch allocation, Payment of fees, Final seat allocation, Temporary roll no. CLAN, Generation of Admission letter ID card and allocation of Hostel/Transport facility. • Generation of Login ID and Password of students to access EMS • Batch/Institute transfer, Withdrawal and editing etc. • Generation of student Permanent ID cards. 2. Student Course registration Module and course approval: • Registration of courses by students under various academic baskets within the set credit limits according to the course prerequisites, anti requisites and other requirements. • Approval of courses' registration by the department. 3. Faculty course allocation, Time table, Lesson Plan and Attendance Module: • Allocation of courses to Faculty members according to specific batch/Section/Practical or Tutorial groups. • Generation/preparation of Time table. Tagging of alternate arrangement, extra lecture. •Visibility of Date wise Time table to Students and Faculty members. • Uploading of lecture session plan by faculty for students • Marking of Student attendance by selecting the topic taught in the lecture within 24 hrs of the lecture conducted. •Attendance of students engaged in cocurricular and extra circular activities are marked from "Event

Attendance Module" separately. • Generating of attendance reports and its availability to students and parents 3. Assignments and Academic Content Module: • Uploading of course contents, lecture notes: PPT's, Links and videos, assignments for students. • Online submission of assignments and its evaluation by faculty. • Sharing of important information/Circulars with all the stake holders through online circular 4. Examination Module: • Creation of Question Paper by mapping each question with the Cognitive Level of Bloom's Taxonomy and Course Outcome, Entering Question wise marks scored by the student for measuring the student's attainment level of Course outcome. • Attendance and Assignment marks are automatically picked from the respective module. • Students can view marks scored by them for every parameter for transparency of their academic performance. • Program and course outcome attainment through direct and indirect tools. Course exit, Program exit and Alumni surveys are conducted for attainment computation through indirect tools. 5. Feedback Module: • Course Faculty Feedback by the students taken against the defined parameters twice within a semester. • Feedback on Curricula and Student Satisfaction Survey: Feedback is taken from stakeholders including Faculty, Students, Employers, Alumni and Parents for overall analysis and further necessary action 6. Grievance Module: Student/ Staff members can raise Grievance's from the portal and depending upon the nature of grievance, system allocates

Part B

CRITERION I – CURRICULAR ASPECTS

1.1 – Curriculum Design and Development

1.1.1 – Programmes for which syllabus revision was carried out during the Academic year

Name of Programme	Programme Code	Programme Specialization	Date of Revision
BTech	BAEE - 001	Aeronautical Engineering	09/03/2018
BTech	BMEE - 013	Mechanical Engineering	09/03/2018
BTech	BAUE - 002	Automobile Engineering	09/03/2018

BTech	BCSE - 005	Computer Science and Engineering	09/03/2018
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1.1.2 – Programmes/ courses focussed on employability/ entrepreneurship/ skill development during the Academic year

Programme with Code	Programme Specialization	Date of Introduction	Course with Code	Date of Introduction
BTech	Biotechnology BBIT-003	07/01/2019	Bioinformatics Computer Applications BT-406	07/01/2019
BTech	Biotechnology BBIT-003	07/01/2019	Bioinformatics Computer Applications Lab BT-415	07/01/2019
BTech	Biotechnology BBIT-003	07/01/2019	Basics of Chemical Engineering Lab BT-414B	07/01/2019
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1.2 – Academic Flexibility

1.2.1 – New programmes/courses introduced during the Academic year

Programme/Course	Programme Specialization	Dates of Introduction
Mtech	Civil Engineering	16/07/2018
Mtech	Power Electronics and Electrical Drives	16/07/2018
Mtech	Computer Engineering and Networking	16/07/2018
MSW	Master of Social Work	16/07/2018
PG Diploma	Advertising and Public Relation	16/07/2018
BA	Liberal Arts	11/07/2018
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1.2.2 – Programmes in which Choice Based Credit System (CBCS)/Elective Course System implemented at the University level during the Academic year.

Name of programmes adopting CBCS	Programme Specialization	Date of implementation of CBCS/Elective Course System
PG Diploma	Advertising and Public Relation	16/07/2018
BA	Liberal Arts	11/07/2018
MSW	Nill	16/07/2018
Mtech	Power Electronics and Electrical Drives	16/07/2018
Mtech	Computer Engineering	16/07/2018

	and Networking	

1.3 – Curriculum Enrichment

1.3.1 – Value-added courses imparting transferable and life skills offered during the year

Value Added Courses	Date of Introduction	Number of Students Enrolled
Developing Entrepreneurial Minds and Skills	07/01/2019	24
Social Media Marketing	08/08/2018	22
Aptitude Training	09/08/2018	22
Pre Placement Preparation	08/01/2019	20
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1.3.2 – Field Projects / Internships under taken during the year

Project/Programme Title	Programme Specialization	No. of students enrolled for Field Projects / Internships
BTech	Automobile Engineering	51
BTech	Aeronautical Engineering	7
BTech	Civil Engineering	72
BTech	Electrical & Electronics Engineering	11
BTech	Computer Science Engineering	277
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1.4 – Feedback System

1.4.1 – Whether structured feedback received from all the stakeholders.

Students	Yes
Teachers	Yes
Employers	Yes
Alumni	Yes
Parents	Yes

1.4.2 – How the feedback obtained is being analyzed and utilized for overall development of the institution? (maximum 500 words)

Feedback Obtained
Curriculum is an essential and most important foundation of an academic institute or university. The curriculum revision and introduction of new courses/ programs is done on the basis of feedback of all stakeholders in ManavRachna International Institute of Research Studies (MRIIRS). All stakeholders viz students, faculty members, employers, alumni and parents participate and contribute with enthusiasm in feedback process on curricula. Feedback of all the stakeholders on curricula provides a roadmap about revision of different courses and introduction of new course in any program and the outcome of the program undertaken by the students. A Standard Operating Procedure (SOP) on "Feedback on Curricula" has been formulated with an aim to bring the analysis report of feedback and assessment of present courses in any

program which is synonymous with the needs of the Institution under its ambit. Combination of Feedback of faculty members, parents, employer, alumni along with the Student feedback constitutes the comprehensive and robust system which help Department to develop quality curricula which meets market demand. After receiving feedback through EMS including Student Satisfaction Survey about curriculum, pedagogy delivery, student support, common utilities like hostel, library services, transport, internship and placements, extra-curricular activities, personality enhancement measures from the current students and other stakeholders like parents, alumni, industry experts, recruiters, and in-house faculty alike an in-depth analysis of all issues is carried out exhaustively with an aim to factor in the emerging observations. Student Satisfaction Survey responses elicited from students is granularized into 13 items pertaining to curriculum and 12 items on common utilities besides feedback on classroom teaching effectiveness. Similarly feedback responses are obtained from other stakeholders like in-house faculty, parents, employers and alumni. The observations / criticism / endorsement / appreciation are thoroughly dissected by the committee and corrective measures initiated. In subsequent meetings, Action Taken Reports are closely monitored to ensure speedy mid-course correction. Besides the above feedback from stake holders, a feedback by students on delivery of the courses is also taken twice in every semester and the mid-course corrections as deemed appropriate are incorporated. The reports compiled by the respective Heads of the Departments on suggestion and recommendations given by the stake holders with regards to start of new courses including value added courses, revision in course and other curricular aspects are sent to a committee on "Feedback on Curricula" for its further recommendations with course of action to be taken up by the respective department in its BoS and for final approval by Academic Council. In order to arrive at the optimal solutions, benchmarking is carried out with the best practices engaged in the institutions of excellence in the country and abroad. Periodic meetings are held by Deans of the Departments to review the Action Taken Report by HODs and a final Report is submitted to the "Feedback committee on Curricula". HODs also garner viewpoints from Student Representatives about the efficacious implementation of solutions to their observations received in the earlier feedbacks.

CRITERION II – TEACHING- LEARNING AND EVALUATION

2.1 – Student Enrolment and Profile

2.1.1 – Demand Ratio during the year

Name of the Programme	Programme Specialization	Number of seats available	Number of Application received	Students Enrolled
BTech	Aeronautical Engineering	30	78	20
BTech	Automobile Engineering	30	42	15
BTech	Biotechnology	30	147	27
BTech	Civil Engineering	60	64	19
BTech	Computer Science and Engineering	240	662	222
BTech	Electronics and Communication Engineering	60	67	21

BTech	Electrical and Electronics Engineering	30	53	12
BTech	Mechanical Engineering	120	120	44
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2.2 – Catering to Student Diversity

2.2.1 – Student - Full time teacher ratio (current year data)

Year	Number of students enrolled in the institution (UG)	Number of students enrolled in the institution (PG)	Number of fulltime teachers available in the institution teaching only UG courses	Number of fulltime teachers available in the institution teaching only PG courses	Number of teachers teaching both UG and PG courses
2018	5178	666	315	18	124

2.3 – Teaching - Learning Process

2.3.1 – Percentage of teachers using ICT for effective teaching with Learning Management Systems (LMS), E-learning resources etc. (current year data)

Number of Teachers on Roll	Number of teachers using ICT (LMS, e-Resources)	ICT Tools and resources available	Number of ICT enabled Classrooms	Numberof smart classrooms	E-resources and techniques used
457	457	21	142	5	15
[View File of ICT Tools and resources](#)					
[View File of E-resources and techniques used](#)					

2.3.2 – Students mentoring system available in the institution? Give details. (maximum 500 words)

Student mentoring, counseling and guidance are important pillars of student support services. The students need this support to overcome their personal, social and academic problems which may affect their progress. An independent well-coordinated student mentoring system is in place in the university. It provides mentoring and motivational support for overall development of the students including career counseling, Stress-busting, eclectic progress, soft skill development, career-path-identification, and orientation to well-being: • Mentors at Department level: Each department has a well entrenched student mentoring mechanism. Mentor to Mentee Ratio for all programmes is 1:20-30 and is 1:15 for Dental College, now constituent Institute of MRIIRS. Mentors regularly meet students to solve their problems, completely track their progress in academics, co-curricular activities, personality development, communication skills, career counseling, holistic development, life skills and interpersonal relationships. - Faculty Mentors conduct a meeting with the students every week to discuss their Academic progress, participation in other activities or any other issue. - A complete track of the student activities like Academic, Co-curricular, Extra Curricular achievements, Social activities and the details of Parents Meetings are registered in the system. - Any discrepancy in the student behavior like short attendance, poor performance in academics etc is analyzed and the student is counseled with care. - Students have an easy access to the Teachers, Course-coordinators, Head of departments, Dean of faculty, Dean-Academics and other concerned functionaries of the University. • Manav Rachna Strategic Mentoring Board under the Chairmanship of Padamshri Prof. Pritam Singh is in place to prepare students for opportunities available at National and International level. Under this, the students are provided with the life time opportunity of interacting, learning and conducting projects and research work, under the guidance of top corporate leaders of the country. • Corporate Relations and Career Management Centre (CRCMC) with its two outfits Career Development Centre (CDC) and Corporate Resource Centre (CRC) is helping students to equip themselves with market-relevant skills to become more employable. CDC is the training arm of the university taking care of the skill enhancement requirements. To achieve this objective, it provides coaching on not only basic Employability Skills and Business Communication but also on Personal Productivity Skills (Time Management, Problem solving, Decision making), Quality (Lean, Six Sigma) and Managerial Skills (Performance Management, Effective Coaching, Team Building etc.) which are rated very highly by the corporate world. CRC is the facilitating unit of MRIIRS which engages with the industry,

constantly strives for expanding the industry-academia interface and provides a platform to students for their campus placement. • MRIIRS has tied-up with Career Launcher and Chankaya IAS Academy to provide in-house training to the students for different competitive exams including Civil Services, Engineering Services, Public Services, GATE etc. • Apart from this, a dedicated team of Dean of student welfare, Department of Sports and Women Cell provide mentoring and motivational support for overall development of the students. Anti-ragging committee functions at University and Faculty level under Proctor of the University. Various Grievances Committees operate under senior functionaries of the University.

Number of students enrolled in the institution	Number of fulltime teachers	Mentor : Mentee Ratio
5844	457	1:25

2.4 – Teacher Profile and Quality

2.4.1 – Number of full time teachers appointed during the year

No. of sanctioned positions	No. of filled positions	Vacant positions	Positions filled during the current year	No. of faculty with Ph.D
463	457	6	77	148

2.4.2 – Honours and recognition received by teachers (received awards, recognition, fellowships at State, National, International level from Government, recognised bodies during the year)

Year of Award	Name of full time teachers receiving awards from state level, national level, international level	Designation	Name of the award, fellowship, received from Government or recognized bodies
2018	Dr Rajat Gera	Professor	Teaching and Research Excellence award for achievements in Teaching, Research and Publications 2019 by Innovative Research Developers and Publishers (IRDP), Chennai, India (01-01-201)
2018	Dr. Farhat Mohsin	Associate Professor	Best Paper Award in International Conference on International Conference on VUCA World-Issues and challenges, Asian Business School. (09-03-2019)
2018	Dr. Bhavesh Prakash Joshi	Associate Professor	Expert talk on Fund flow analysis. (29-05-2019) and Expert talk on Public Finance (31-05-2019)
2018	Dr. Stuti Sahni	Assistant Professor	Guest lecture on Law of Contract at HIPA on 25 June 2019

| 2018 | Dr. Deepti Dabas Hazarika | Associate Professor | Expert Lecture on Experience Economy, Gurugram University. 22-10-2018 |

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2.5 – Evaluation Process and Reforms

2.5.1 – Number of days from the date of semester-end/ year- end examination till the declaration of results during the year

Programme Name	Programme Code	Semester/ year	Last date of the last semester-end/ year- end examination	Date of declaration of results of semester- end/ year- end examination
BTech	BCIE-004	1, 3, 5, 7 / 2018	11/01/2019	24/01/2019
BTech	BCSE-005	1, 3, 5, 7 / 2018	11/01/2019	24/01/2019
BTech	BEPO-012	1, 3, 5, 7 / 2018	11/01/2019	24/01/2019
BTech	BECE-010	1, 3, 5, 7 / 2018	11/01/2019	24/01/2019

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2.5.2 – Average percentage of Student complaints/grievances about evaluation against total number appeared in the examinations during the year

Number of complaints or grievances about evaluation	Total number of students appeared in the examination	Percentage
6	5449	0.1

2.6 – Student Performance and Learning Outcomes

2.6.1 – Program outcomes, program specific outcomes and course outcomes for all programs offered by the institution are stated and displayed in website of the institution (to provide the weblink)

https://manavrachna.edu.in/wp-content/uploads/2021/03/Prgram-Outcomes-Program-Sprcific-Outcomes-and-Course-Outcome-Statements.pdf

2.6.2 – Pass percentage of students

Programme Code	Programme Name	Programme Specialization	Number of students appeared in the final year examination	Number of students passed in final year examination	Pass Percentage
BAEE-001	BTech	Aeronautical Engineering	11	9	82
BAUE-002	BTech	Automobile Engineering	15	14	93
BBIT-003	BTech	Biotechnology	43	42	98

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2.7 – Student Satisfaction Survey

2.7.1 – Student Satisfaction Survey (SSS) on overall institutional performance (Institution may design the questionnaire) (results and details be provided as weblink)

CRITERION III – RESEARCH, INNOVATIONS AND EXTENSION

3.1 – Promotion of Research and Facilities

3.1.1 – Teachers awarded National/International fellowship for advanced studies/ research during the year

Type	Name of the teacher awarded the fellowship	Name of the award	Date of award	Awarding agency
National	Dr. Nidhi Didwania	IOCL Start-Up under IOSUS	Nill	Nill

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3.1.2 – Number of JRFs, SRFs, Post Doctoral Fellows, Research Associates and other fellows in the Institution enrolled during the year

Name of Research fellowship	Duration of the fellowship	Funding Agency
Research Associate-IPR	365	MRIIRS, Faridabad
Research Associates-Physiotherapy	180	MRIIRS, Faridabad
Research Associate-MRIIRC	365	MRIIRS, Faridabad

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3.2 – Resource Mobilization for Research

3.2.1 – Research funds sanctioned and received from various agencies, industry and other organisations

Nature of the Project	Duration	Name of the funding agency	Total grant sanctioned	Amount received during the year
Major Projects	365	Indian Oil Startup Scheme (IOSUS), Ministry of Petroleum, GOI	172	40.63
Major Projects	1825	NIMAT, DST, GOI, NSTEDB	267	47.5
Minor Projects	45	Kapsa Wellness Pvt. Ltd.	0.46	0.46

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3.3 – Innovation Ecosystem

3.3.1 – Workshops/Seminars Conducted on Intellectual Property Rights (IPR) and Industry-Academia Innovative practices during the year

Title of workshop/seminar	Name of the Dept.	Date
Expert lecture on how to join IAF after B Tech by Air Veteran Sqn Ldr Rajpal Singh	Aeronautical Engineering	26/12/2018

Aeromodelling and piloting of Drones as a career option	Aeronautical Engineering	15/01/2019	
Workshop on Biotechnological Products: Innovation for Healthcare	Biotechnology	07/06/2018	
Gut microbiome in human health	Biotechnology	25/07/2018	
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3.3.2 – Awards for Innovation won by Institution/Teachers/Research scholars/Students during the year

Title of the innovation	Name of Awardee	Awarding Agency	Date of award	Category
AI-powered anti-pollution mask -Team Caeli	Aakash Bhadana ,Vasu Kaushik, Bharat Sundal, Rahul Gupta, Shubham Sharma, Siddharth Srivastava, Dhruv Rohtagi, Simran Choudhary, Mayur	2019 Imagine Cup World Championship	07/05/2019	Students
Certificate of Special Achievement, Naari Shakti Ko Pranaam, in recognition of outstanding accomplishments towards organic agriculture and wellness.	Dr. Nidhi Didwania	Brijbhoomi Foundation	30/06/2019	Teacher
Accessibild	Amrit Kaur Chaudhary, Ishlok Vashisht	MIT Media Lab Boston	30/06/2019	Student
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3.3.3 – No. of Incubation centre created, start-ups incubated on campus during the year

Incubation Center	Name	Sponsored By	Name of the Start-up	Nature of Start-up	Date of Commencement
NewGen IEDC	Chaitanya Singh Rana, Saurabh Singh	DST	Vagabond Brains	Digital Marketing Service	11/07/2018
NewGen IEDC	Aman Nishchal, Vansh Mittal	DST	TFT (coating Vala)	Surface Protector	22/02/2019
NewGen IEDC	Sunash Malik,	DST	Synsalus technoMed	Medical Data	08/11/2019

	Vaibhav Dagar, Yash Kaushik			Management	
NewGen IEDC	Mandeep Gulati	DST	Naturoplast	Biodegradable Plastic	27/07/2018
		View File			

3.4 – Research Publications and Awards

3.4.1 – Ph. Ds awarded during the year

Name of the Department	Number of PhD's Awarded
Management Studies	1
Biotechnology	1
Computer Science and Engineering	2
Chemistry	1
Physiotherapy	2
Nutrition and Dietetics	2
Electrical and Electronics Engineering	2
Electronics and Communication Engineering	2
Mathematics	2
Psychology	2
Media Studies	1

3.4.2 – Research Publications in the Journals notified on UGC website during the year

Type	Department	Number of Publication	Average Impact Factor (if any)
International	Aeronautical Engineering	2	2.8
International	Automobile Engineering	1	8.87
National	Automobile Engineering	5	0.85
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3.4.3 – Books and Chapters in edited Volumes / Books published, and papers in National/International Conference Proceedings per Teacher during the year

Department	Number of Publication
Aeronautical Engg	1
View File	

3.4.4 – Patents published/awarded/applied during the year

Patent Details	Patent status	Patent Number	Date of Award
Novel medium for enhanced production of phytochemicals in plant tissue cultures	Published	201711035092	07/06/2019

Fulcrum Link Steering Mechanism By Devendra Vashist, Mandeep Singh, Ashutosh Chadha, Shubham Tyagi, Mayank Handa, Giriraj Kumar, Rahul Taneja(Auto)	Published	201711002844	27/07/2018

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3.4.5 – Bibliometrics of the publications during the last academic year based on average citation index in Scopus/ Web of Science or PubMed/ Indian Citation Index

Title of the Paper	Name of Author	Title of journal	Year of publication	Citation Index	Institutional affiliation as mentioned in the publication	Number of citations excluding self citation
Measurement of initial displacement of canine and molar in human maxilla under different canine retraction methods using digital holographic interferometry	Manoj Kumar Anshu Singh Birhman Sridhar Kannan Chandra Shakher	Optical Engineering, eISSN:1560-2303	2018	16	MRIIRS	7
Comparative Evaluation of Haemodynamic, Vasoconstrictive And SPO2 Variability During Different Stages Of Periodontal Surgery Performed Using 0.5 Ropivacaine Or 2 Lignocaine HCL: A Randomised	Mishra A,Pandey R	Journal of indian society of periodontology	2018	19	MRIIRS	19

Double-Blind Split Mouth Pilot Study.						

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3.4.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science)

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
EEG Based Cognitive Brain Mapping in Time Domain to Analyze EM Radiation Effect on Human Brain.	Mahajan R., Bansal D., Khatter A	Advanced Informatics for Computing Research	2018	4	1	MRIIRS
Amperometric Enzyme-free Glucose Sensor Based on Electrodeposition of Au Particles on Polyaniline Film Modified Pt Electrode	Yijun Tang, Shveta Malhotra, Pradeep K Varshney	Acta Chimica Slovenica	2018	44	2	MRIIRS

[View File](#)

3.4.7 – Faculty participation in Seminars/Conferences and Symposia during the year

Number of Faculty	International	National	State	Local
Attended/Seminars/Workshops	26	88	70	1387
Presented papers	67	78	1	2
Resource persons	16	85	16	16

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3.5 – Consultancy

3.5.1 – Revenue generated from Consultancy during the year

Name of the Consultan(s) department	Name of consultancy project	Consulting/Sponsoring Agency	Revenue generated (amount in rupees)
Dr D K Chadha, Dr Sarita Sachdeva, Dr A Mukherjee-Biotechnology	In-Situ De-Salination using ISP system Installation in saline Aquifer	Maharani Innovative Paints, Prithla, Palwal	808000
Sarita Sachdeva, Abhilasha Shouri, Sadiqa Abbas-Bitotechnology, Civil	Solid Waste Management at Rakhigarhi	Indian Trust for Rural Heritage and Development (ITRHD)	920000
Dr D K Chadha, Dr Sarita Sachdeva, Dr A Mukherjee-Biotechnology	Hydrogeological Survey Aquifer Monitoring in Barmer, Rajasthan of Cairn Oil and Gas Vedanta Ltd	Vedanta Cairns Oil and Gas Company, Barmer, Rajasthan	2438014
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3.5.2 – Revenue generated from Corporate Training by the institution during the year

Name of the Consultan(s) department	Title of the programme	Agency seeking / training	Revenue generated (amount in rupees)	Number of trainees
Dr. Anita Khosla-Electrical and Electronics Engineering	Industrial Training on Advanced iQ-R Setup	Mitsubishi Electric India	48000	12
Dr. Anita Khosla-Electrical and Electronics Engineering	AMIE Section-B Practical Training Evaluation-Summer Session	Associate Member of Institution of Engineers.(AMIE) by Institution of Engineers(INDIA)	313200	87
Dr. Anita Khosla-Electrical and Electronics Engineering	AMIE Section-B Practical Training Evaluation-Winter Session	Associate Member of Institution of Engineers.(AMIE) by Institution of Engineers(INDIA)	284400	79
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3.6 – Extension Activities

3.6.1 – Number of extension and outreach programmes conducted in collaboration with industry, community and Non- Government Organisations through NSS/NCC/Red cross/Youth Red Cross (YRC) etc., during the year

Title of the activities	Organising unit/agency/ collaborating agency	Number of teachers participated in such activities	Number of students participated in such activities

Ek Mutthi Daan, No one Sleeps Hungry	Voice of Voiceless, SHEOWS, Feeding India	250	100
Swacch Bharat Abhiyaan	Dr O P Bhalla Foundation	4	410
Free Employability Skill classes	Dr O P Bhalla Foundation	2	62

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3.6.2 – Awards and recognition received for extension activities from Government and other recognized bodies during the year

Name of the activity	Award/Recognition	Awarding Bodies	Number of students Benefited
Promoting Education through Innovation	EduShine Excellence Award 2019	ASSOCHAM	5844
International Human Rights Awards 2018	Most Innovative University in Research and Studies' during the 8th International Human Rights Awards 2018	All India Council of Human Rights, Liberties and Social Justice (AICHLS)	5844

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3.6.3 – Students participating in extension activities with Government Organisations, Non-Government Organisations and programmes such as Swachh Bharat, Aids Awareness, Gender Issue, etc. during the year

Name of the scheme	Organising unit/Agency/collaborating agency	Name of the activity	Number of teachers participated in such activites	Number of students participated in such activites
Ek Mutthi Daan, No one Sleeps Hungry	Voice of Voiceless, SHEOWS, Feeding India	Voice of Voiceless, SHEOWS, Feeding India	250	1000
Swacch Bharat Abhiyaan	Dr O P Bhalla Foundation	Swaach Bharat	15	410
Free Employability Skill classes	Dr O P Bhalla Foundation	Education Support	2	62

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3.7 – Collaborations

3.7.1 – Number of Collaborative activities for research, faculty exchange, student exchange during the year

Nature of activity	Participant	Source of financial support	Duration
Tsukuba Summer Intstitute, Student Exchange Programme	Tanu Gupta	Tsukuba Summer Intstitute	7
Tsukuba Summer Intstitute, Student Exchange Programme	Ridhi Narang	Own Resources	7

Tsukuba Summer Intstitute, Student Exchange Programme	Chandrika Khanna	Own Resources	7

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3.7.2 – Linkages with institutions/industries for internship, on-the- job training, project work, sharing of research facilities etc. during the year

Nature of linkage	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration From	Duration To	Participant
Internship	Clinical internship	Hospital name: Maharaja Agrasen Hospital, West Punjabi Bagh, New Delhi -110026	20/08/2018	19/02/2019	ANITA Student of P hysiotheraph y
Internship	Clinical internship	St. Stephents Hospital	09/01/2018	03/06/2019	AMRITA MISHRA Student of P hysiotheraph y
Internship	Clinical internship	QRG Health City	17/07/2018	17/01/2019	ABHILASHA Student of P hysiotherapy

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3.7.3 – MoUs signed with institutions of national, international importance, other universities, industries, corporate houses etc. during the year

Organisation	Date of MoU signed	Purpose/Activities	Number of students/teachers participated under MoUs
Advancells:Stem Cell Therapies	01/06/2019	Joint Research, Consultancy, Curriculum Development	3
CAWTM, MRIIRS with NIUA and MCF	05/03/2019	Establishing WIL	2

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CRITERION IV – INFRASTRUCTURE AND LEARNING RESOURCES

4.1 – Physical Facilities

4.1.1 – Budget allocation, excluding salary for infrastructure augmentation during the year

Budget allocated for infrastructure augmentation	Budget utilized for infrastructure development
450.5	667.17

4.1.2 – Details of augmentation in infrastructure facilities during the year

Facilities	Existing or Newly Added
Classrooms with LCD facilities	Newly Added
Seminar halls with ICT facilities	Newly Added
Value of the equipment purchased during the year (rs. in lakhs)	Newly Added
Number of important equipments purchased (Greater than 1-0 lakh) during the current year	Newly Added
Classrooms with Wi-Fi OR LAN	Newly Added
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4.2 – Library as a Learning Resource

4.2.1 – Library is automated {Integrated Library Management System (ILMS)}

Name of the ILMS software	Nature of automation (fully or patially)	Version	Year of automation
Libsys 7	Fully	Libsys Web-7.0	2002

4.2.2 – Library Services

Library Service Type	Existing		Newly Added		Total	
e-Books	184237	1986000	230	998431	184467	2984431
Journals	216	2346293	52	1996296	268	4342589
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4.2.3 – E-content developed by teachers such as: e-PG- Pathshala, CEC (under e-PG- Pathshala CEC (Under Graduate) SWAYAM other MOOCs platform NPTEL/NMEICT/any other Government initiatives & institutional (Learning Management System (LMS) etc

Name of the Teacher	Name of the Module	Platform on which module is developed	Date of launching e-content
Abhiruchi Passi	B.Tech. ECE (IOT) Sem 1: SEC-J : internet of things-i-EC-1001	MRIIRS- IMS (ERP)	01/08/2018
Abhiruchi Passi	M.Tech ECE(Comm System) Sem 1: none : wireless sensor networks-PC-EC-M-121	MRIIRS- IMS (ERP)	13/08/2018
ABHISHTA SEHDEV	BPT Sem 4: A : ethics administration-BPT-405	MRIIRS- IMS (EMS)	18/01/2019
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4.3 – IT Infrastructure

4.3.1 – Technology Upgradation (overall)

Type	Total Computers	Computer Lab	Internet	Browsing centers	Computer Centers	Office	Departments	Available Bandwidth (MBPS/GBPS)	Others
Existin	1807	34	1807	1	5	45	23	155	725

g								
Added	241	1	241	0	1	25	18	20	60
Total	2048	35	2048	1	6	70	41	175	785

4.3.2 – Bandwidth available of internet connection in the Institution (Leased line)

175 MBPS/ GBPS

4.3.3 – Facility for e-content

Name of the e-content development facility	Provide the link of the videos and media centre and recording facility
Video Production Centre	https://manavrachna.edu.in/international-institute-of-research-and-studies/media-studies-humanities/tv-studio/
Audio Visual Centre	https://manavrachna.edu.in/international-institute-of-research-and-studies/audio-visual-center/

4.4 – Maintenance of Campus Infrastructure

4.4.1 – Expenditure incurred on maintenance of physical facilities and academic support facilities, excluding salary component, during the year

Assigned Budget on academic facilities	Expenditure incurred on maintenance of academic facilities	Assigned budget on physical facilities	Expenditure incurredon maintenance of physical facilites
1882.22	2052.22	2485.97	2315.97

4.4.2 – Procedures and policies for maintaining and utilizing physical, academic and support facilities - laboratory, library, sports complex, computers, classrooms etc. (maximum 500 words) (information to be available in institutional Website, provide link)

The usage and maintenance of the infrastructural resources are done as per the Infrastructure Usage and Maintenance Policy of MRIIRS. Usage policy for various facilities: Each of the laboratories, sports, library facilities and computer centre have a logbook to maintain the usage record. However, to use the central facilities like seminar hall and auditorium, the users need to send a request to central admin department through a printed form. The sports department in addition to the usage record register, also rolls out an activity calendar for various sports competitions. Physical Infrastructure (including civil/electrical/furniture/RO-Water/ACs/Firefighting): The University has a dedicated team of masons, plumbers, electricians, carpenters, painter, welder, AC technicians (reporting to GM Admin). During the lean teaching period the team takes care of the small repairs. However, for bigger assignments like white-wash and painting the job is outsourced. Housekeeping: A team of outsourced housekeeping staff, ensures that the washrooms, classrooms, laboratories, staffrooms, corridors, stairs, walkways, and common areas are dust garbage free as per terms and conditions of MoU. Computing, network, surveillance and AV facilities: A dedicated team of ICT technicians exists(reporting to GM IT) to take care of computers, video projection/Audio systems. The complaints are received through e-mails or register. The computers/laptops are repaired/ replaced/ upgraded on requirements. Laboratory/Workshop equipment: The equipment, machinery, apparatus etc. are maintained by the respective Lab In-charges under the advice of concerned HODs. Waste Disposal: Systematic disposal of waste of all types, such as bio-degradable chemical and e-waste is done in the proper way. Sports: MRIIRS has sufficient avenues to organize sports activities like play cricket, volley

ball, basketball, gymnastic, TT, chess, shooting and other indoor games etc. Sports coaches of various games, working under Director sports, are available to guide/coach the students and regularly organizing the sports event in the college campus. Transport: The transport department take care of buses, routes, their maintenance. One ambulance is available in college 24 X 7 hours for emergency purposes. Transport Manager is responsible for taking care of schedule, routes, and staff with the help of supervisors. Horticulture: A team of 13 gardeners look after the well-manicured lawns and plants in the campus. Roof-top Solar system: The institute has 308KWp roof-top solar system installed and maintained by Amplus Solar under Opex model. Maintenance of the Infrastructure Laboratory/Workshop equipment: The equipment, machinery, apparatus etc. are maintained by the respective Lab In-charges under the advice of concerned HODs. Physical Infrastructure: Maintained in-house through a team of electricians, AC mechanics, generator/ACs/ROs/STP operators, masons, carpenters and plumbers under GM admin. CCTV, AV System are under GM (ICT). Furniture: Furniture maintenance is carried out by in-house team (under GM admin) as well as an outsourced agency depending on type of work required. Horticulture: A team of 13 gardeners look after our well-manicured lawns and plants. Housekeeping/Peons: Services of 89 housekeepers and office-boys are availed through outsourced agencies. Fire Systems Installations: The institute has a qualified Fire Officer(Under GM Admin) on its rolls to monitor and maintain installations.

https://manavrachna.edu.in/infrastructure-and-support-services/

CRITERION V – STUDENT SUPPORT AND PROGRESSION

5.1 – Student Support

5.1.1 – Scholarships and Financial Support

	Name/Title of the scheme	Number of students	Amount in Rupees
Financial Support from institution	Scholarships on Basis of Marks in Qualifying Exam and others	873	28060912
Financial Support from Other Sources			
a) National	GATE and Others	12	508100
b)International	MERIT SCHOLARSHIP (EDCIL)	11	5450904
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5.1.2 – Number of capability enhancement and development schemes such as Soft skill development, Remedial coaching, Language lab, Bridge courses, Yoga, Meditation, Personal Counselling and Mentoring etc.,

Name of the capability enhancement scheme	Date of implemetation	Number of students enrolled	Agencies involved
Bridge courses_Basics of IT	01/08/2018	90	Faculty of Management Studies
Bridge courses_Basics of Accounting	01/08/2018	90	Faculty of Management Studies
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5.1.3 – Students benefited by guidance for competitive examinations and career counselling offered by the institution during the year

Year	Name of the scheme	Number of benefited students for competitive examination	Number of benefited students by career counseling activities	Number of students who have passedin the comp. exam	Number of studentsp placed
2018	Competitive Examination Preparation	955	Nill	72	Nill
2018	Career Counselling	Nill	4043	Nill	922
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5.1.4 – Institutional mechanism for transparency, timely redressal of student grievances, Prevention of sexual harassment and ragging cases during the year

Total grievances received	Number of grievances redressed	Avg. number of days for grievance redressal
44	44	5

5.2 – Student Progression

5.2.1 – Details of campus placement during the year

On campus			Off campus		
Nameof organizations visited	Number of students participated	Number of stduents placed	Nameof organizations visited	Number of students participated	Number of stduents placed
Aasaanjobs Pvt. Ltd	15	3	A2Z Consulting	5	1
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5.2.2 – Student progression to higher education in percentage during the year

Year	Number of students enrolling into higher education	Programme graduated from	Depratment graduated from	Name of institution joined	Name of programme admitted to
2018	1	B.Arch	Department of Architecture Design	Manchester Metropolitan University	Masters in Landscape Architecture
2018	1	B.Sc. ID	Department of Architecture & Design	Amity University	Master of Interior Design
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5.2.3 – Students qualifying in state/ national/ international level examinations during the year (eg:NET/SET/SLET/GATE/GMAT/CAT/GRE/TOFEL/Civil Services/State Government Services)

Items	Number of students selected/ qualifying
NET	5
GATE	4
GRE	5

5.2.4 – Sports and cultural activities / competitions organised at the institution level during the year		
Activity	Level	Number of Participants
9th M.R.Inter Faculty Staff Badminton T.T Tournament 2019	Department	283
7th MREI Girls Sports Meet 2019	Inter College	325
12th Manav Rachna Corporate Cricket Challenge 2019	Corporate	422
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5.3 – Student Participation and Activities

5.3.1 – Number of awards/medals for outstanding performance in sports/cultural activities at national/international level (award for a team event should be counted as one)

Year	Name of the award/medal	National/ Internaional	Number of awards for Sports	Number of awards for Cultural	Student ID number	Name of the student
2018	Gold Medal won at Udghosh 2018 at IIT Kanpur	National	1	Nill	1/18/FET /BES/004	Himanshi Bhardwaj
2018	Gold Medal Asian Shooting Championship 2018 at Kuwait	International	1	Nill	16/FCBS/ BBA(G)/121	Angad Vir Singh Bajwa
2018	Fine Art Society won First Prize and cash prize	National	Nill	1	1/18/FET /BCI/011	Shivam
2018	Second Position In Fashion Walk	National	Nill	1	1/15/FET /BAU/1/003	Mandeep Singh Chawla
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5.3.2 – Activity of Student Council & representation of students on academic & administrative bodies/committees of the institution (maximum 500 words)

Manav Rachna lays special emphasis on students welfare, and therefore, has a full-fledged Student Council which is a student care and supervision group that serves as a liaison between students and administration. Student Council closely works with students across all years to provide leadership, social, extracurricular and academic counseling programmes. The Council also seeks to challenge students to become responsible and productive citizens of society and to support the Universitys educational and administrative goals to enhance or address aspects of the whole gamut of student aspirations. The council main

objective is to work for the students with students and by the students which is all achieved by a group of student's representatives from each department of the University . The purpose of the Student Council is to give students an opportunity to develop leadership by organizing and carrying out different activities including extension activities. In addition to planning events that contribute to the Universitys spirit and community welfare, the Student Council is the voice and interface of the student body. They help share students ideas, interests and concerns with the University community. The function of the Student Council is based upon parliamentary procedures. Ideas are presented, voted upon and confirmed by the student coordinator. Any student/s who is/are interested in leadership, organizational behavior, event planning or becoming more involved in the University events are welcome to become involved in the Student Council . The nomination of all the members of the student's council is held as per the rules prescribed by the University every year .The Students' Council consist of the student representatives from each class having good academic merit at the examination held in the preceding year. They help to coordinate activities and suggest extra inputs in coordination with other students of their department as well as submit feedback to the department and ensure that the students adhere to the disciplinary policies of the University at all times. The student council members are also nominated from different activities showing outstanding performance in Sports and Cultural Activities. They arrange Intra-University events and ensure participation of students. They involve the students to participate in CSR activities like arranging Blood donation camps, helping the affected during natural calamities. Student Council also establishes a network with the alumni through Alumni Associations and coordinate in organizing various activities like alumni meet, and interact with the alumni at various forums and always maintain an updated database of the alumni . Student Council members are also part of Administrative Committees of the University like Anti Ragging Committee, Discipline Committee, International Student Cell, Student Facilitation Center and Department Academic Council. They play important role in hosting various workshops, sessions, innovative games, competitions for aspiring students and support them by providing necessary resources such as, mentoring, consultancy and networking. Student council helps to develop student potential and encourage making a well-informed, honest, interested and active citizenship. They not only develop leadership abilities within the youth of today, but also leadership for the community, state and nation of tomorrow.

5.4 – Alumni Engagement

5.4.1 – Whether the institution has registered Alumni Association?

Yes

which has an Alumni Base of 18000 members have eight faculty chapters for easier administrative reach out: 1) Faculty of Engineering Technology Chapter 2) Faculty of Planning and Architecture Chapter 3) Faculty of Computer Applications Chapter 4) Faculty of Media Studies Chapter 5) Faculty of Commerce Humanities Chapters 6) Faculty of Management Studies Chapter 7) Faculty of Applied Sciences Chapter 8) Faculty of Behavioral and Social Sciences Chapter In adition to seven chapters that were existing in alumni association, a new chapter named Faculty of Behavioural and Social Sciences is added to the Manav Rachna International Institute of Research and Studies AlumniAssociation. Each Chapter has a respective Alumni Faculty Coordinator with support from HoDs Deans to support Alumni Connect and Facilitation. These chapters are created for better and personal connect of the respective faculty alumni which works under the umbrella of central alumni association. MRIIRS has been holding Executive Council General Body Meetings as per the quorum regularly to undertake initiatives for the welfare of the Alumni Network. The Executive Council meetings have been conducted followed by faculty chapters meetings. The

Executive Council members are from different departments of university like Sports, Career Development Centre, Department of Students Welfare, Information technology Department, Library, Faculty, Heads of Department and alumni. All the members of the Executive Council are selected on the basis of inclusion of all the facilities/aspects where student have spent their time at college. In Executive Council meeting headed by designated Chief Patron, President and Treasurer of alumni association in line with Bye Laws, the enhancement of alumni connect is always explored. Respective Chapters have also been holding Expert lectures, Seminars Alumni Connect Activities, Meets etc. for Alumni Engagement. Alumni of MRIIRS provides support to the organization in various ways like expert guidance for the students in their respective fields and industry exposure. The alumni have also been called for different mentoring, career counseling sessions for the students. In addition to this, the alumni have also been involved in the cultural, and other internal events organized in the university. At the same time alumni have been given different access in the university campus like Library resources, Sports Facilities etc. The alumni association account has also been existing in the university with authorized signatory including designated Chief patron, President and Treasurer of MRIIRS alumni association in line with bye Laws. The alumni were invited for several events like: 1) Student Competition 2) Alumni Lectures 3) Alumni Meets 4) Alumni Discussion 5) Cultural Fests 6) Placement Drives 7) Orientation Programs. 8) Convocation Programs 9) Career and Skill Development Workshops

5.4.2 – No. of registered Alumni:

18822

5.4.3 – Alumni contribution during the year (in Rupees) :

3556000

5.4.4 – Meetings/activities organized by Alumni Association :

18

CRITERION VI – GOVERNANCE, LEADERSHIP AND MANAGEMENT

6.1 – Institutional Vision and Leadership

6.1.1 – Mention two practices of decentralization and participative management during the last year (maximum 500 words)

MRIIRS practices decentralization and participative management to improve the efficacy and efficiency of the university system and quality assurance in the services offered by the university. The decentralization of administrative processes is evident from the organizational chart which shows the decision-making process. In consonance with this policy, powers have been delegated amongst most of the academic and Teaching/Administrative Departments/Offices, including Research and Development. These academicians and officers meet the Vice-Chancellor as frequently as required to deliberate on academic, administrative and developmental matters. As a matter of fact, an effective internal coordination monitoring system is practiced through the Dean Academic Affairs, Deans of various Faculties, Dean Student Welfare, Heads of the Teaching/Administrative Departments, and other functionaries. Whenever warranted, special committees are constituted to deal with special situations. The teachers and branch heads of administrative units are motivated to develop inter-departmental linkages for creating a congenial work environment. If any exigency arises, special meetings with the staff are held to discuss and resolve important issues of time-bound nature. The total decision making process is democratic and decentralized which ensures continuous interaction between the teachers and other staff and the administration. This work approach promotes healthy coordination among various academic and administrative units

of the institution thereby grooming the leadership at various levels. Examples of practices of decentralization and participative management are listed as: 1. All Statutory Bodies like Academic Council, Board of Management, Board of Studies, Board of Faculty, Internal Quality Assurance Cell, Finance Committee and other committees with participation of faculty of all cadres at the University and other departmental level are in place. The members of these Bodies and Committees are rotated after regular intervals as per guidelines of the UGC. 2. All efforts for design/changes/improvements of academic (curriculum revision, program scheme revision), teaching-learning (lesson planning, content dissemination) and evaluation processes are initiated and executed by the Boards of Studies comprising faculty at core level in a total participative mode before ratification by the Academic Council. 3. For smooth functioning of individual departments, financial powers have been decentralized. The accounts department seeks the fund requirement from various departments of the university for the next financial year. These requirements are compiled at Faculty level and further total budget requirement is prepared centrally at the University level. Allocated funds approved by the Board of Management for the Financial Year under various Heads are communicated to all Faculties/Department/Sections. The funds so allocated are bifurcated at Faculty/department level as per the requirement/demand of funds raised by individual department for the given financial. 4. All purchase requirements for lab equipment's/ software's/ learning resources/ library resources along with specifications based on quality consideration are initiated by the teaching faculty and associated staff. This demand is then deliberated in the Planning and Monitoring Board followed by Finance Committee of the University. Follow up action is implemented after approval by the Deans directly through the purchase department. Thus, purchase of equipment including IT resources goes up without any impediment.

6.1.2 – Does the institution have a Management Information System (MIS)?

Yes

6.2 – Strategy Development and Deployment

6.2.1 – Quality improvement strategies adopted by the institution for each of the following (with in 100 words each):

Strategy Type	Details
Curriculum Development	Curriculum Development is based on feedback from all the stakeholders and is analyzed in the light of the curriculum requirements of Regulatory Bodies, best practices and contemporary expectations of the Industries. It is then synthesized and validated before it goes to Academic Council for approval. The whole process is followed as per the devised policy and subsequent Standard Operating Procedures of Curriculum Development and Review. The strategic components of curriculum include domain excellence, application skills, professional competence, global orientation, IT exposure, research orientation, interdisciplinary and multi-disciplinary focus.
Teaching and Learning	At the beginning of each session academic calendar and

		departmentallevelplans are prepared and shared with students in advance and executed meticulously. To unify the diversified categories of students, each Faculty organizes orientation programs for newly admitted and senior students. Each department follows the approved laid down Policy and SoPs of the University on Teaching Learning and Evaluation for distinctive approaches of teaching and learning to be adopted to address the needs of slow learners, average learners and fast learners. Each department develops a system of peer learning, student mentoring, team building and organization of events. The studentsare involved in value-added academic programs to ensure an inclusive academic ambience in the department.
	Examination and Evaluation	Continuous internal evaluation of assignments, sessional tests, lab reports/performance, technical seminars/colloquium, projects and internships is done during a semester. University holds end-semester theory/practical examinations for all academic programs. University has in-house secure facilities for typing, printing, photocopying followed by result processing examination software. Controller of Examination notifies names of superintendents to prepare examination date-sheet, list of registered/eligible students, seating plan, appoint invigilators and maintain student attendance during exam. Spot evaluation is in place ever since inception of the university. Results after showing answer books are notified within stipulated time through website/individual departments. Certification is done during Convocation or as and when candidates apply for it.
	Research and Development	The strategy is to systematize procedures for facilitatingR and D activities to generate resources, establish national/international collaborations, foster academy-industry interaction, address issues of social/national relevance, extend service to social organizations, lead to value addition for faculty and students in terms of indexed publications, and provide visibility for the university. The major

	objectives are to provide a clear consultancy framework, manage external links effectively tofacilitate and support multi-disciplinary research, ensure appropriate returns to both employee and university for effective use of resources and intellectual assets, and encourage/develop the University's links with wider community through high quality consultancy activities.
Library, ICT and Physical Infrastructure / Instrumentation	Strategy for Library is to build quality knowledge base through books/e-books, journals, databases and to keep close liaison with different academic units. It seeks to provide full access to print/digital resources in an enabling environment to students/faculty/other employees.Library is Wi-Fi enabled, offers latest technological applications including e-books,audio-books, e-journals, kindles to maximize the use/ease of library resources. The collection can be accessed campus wide through dedicated LAN and selected e-resources/online catalogue can be accessed 24x7 over web. Photocopier, scanner, printers and desktops are located in the library. Liberal budgetary support is provided and facility operations management is environmentally sustainable.
Human Resource Management	The strategy for human resource management revolves around conducting job analysis,planning faculty and staff needs,recruiting and selecting the right people for the jobs,orientation and training of the employees for better productivity and efficiency,determining and managing wages and salaries,providing benefits and incentives,appraising performance,resolving disputes ,communicating with all employees at all levels. The core purpose of strategy is to make strong, satisfied and result oriented teams, enhance employee welfare and improve productivity and efficiency on a continuous basis and in keeping with the mission and vision of the university.
Industry Interaction / Collaboration	The core components of strategy are to undertake effectively the task of strengthening the linkages with recruiting organizations through

	activities including professional development programs/seminars/workshopsdeveloping strong industry-institute interface, internships, interactive industry visits, pre-placement counseling, developing executing placement strategy, interaction with potential recruiters, industry collaborations and tie-ups followed by mock interview sessions and career guidance.Dedicated CRC and CDC act as prime movers. As a matter of policy, university involves industry professionals in teaching classes since they bring to the table real world experiences. The university makes efforts to get industry sponsorships for a series of lectures/presentations from distinguished professionals from the industry on/off campus.
Admission of Students	The university admissions is an online student-friendly multi-stage process involving the filling up of the admission form, entrance exam, creation of merit list, displaying of results on website, physical counseling before culminating in the final Admission to the Programme of Choice. The universityinculcates every effort to make this process fair, transparent, smooth and expeditious to facilitate merit-based admissions. The core objective of admission strategy is to improve the quality of students in terms of academic merit at the entry level, provide them complete and reliable information about the university and to inform them about the choices available.

6.2.2 – Implementation of e-governance in areas of operations:

E-governace area	Details
Planning and Development	a. Role Setup- Module wise access rights to respective stakeholders like teaching staff, departmental heads administrative, Admissions, Hostel/Transport, Finance, HR and other Department staffs. b. Faculty- course allocation, Time table, Lesson Plan and Attendance Module: • Students are divided into sections and practical or tutorial groups, further courses are allocated to Faculty members according to specific batch/section/practical or tutorial groups and teaching load according to lecture per week is

		defined. • Time table is prepared according to the defined teaching load. Tagging of alternate arrangement, extra lecture in TT free slots, are some of the added features offered. Date wise time table can be viewed by students and faculty members. • Topic wise lesson plan for the whole session with proposed date is prepared and uploaded by all faculty members and it can be viewed by students as well. • Faculty members mark the student attendance by selecting the topic taught in the lecture within 24 hrs of the lecture conducted otherwise marking of attendance gets freezed. • Attendance of students engaged in extra circular activities are marked from "Event Attendance Module" separately. • According to the attendance marked for the topic, system updates the conducted date for all the topics. Thus, generating report considering all parameters- Proposed date with the topic and actual conducted date. • Lesson plan and date wise/course wise/aggregate attendance report can be viewed by students and faculty members. c. Assignments and Academic Content Module: • Faculty members upload various assignments for the allocated courses. It can be viewed/ submitted by the students and afterwards faculty members can view/download/evaluate/reject the student's submitted assignments. Marks/remarks given by the faculty can be further viewed by the students. • Uploaded course contents like syllabus, previous year question papers, lecture notes, PPTs, relevant web-links and videos can be viewed by students. d. Staff achievements Module: • Teachers can upload the personal, academic and data related to their publications, conferences attended, etc and the same the can be viewed/downloaded for preparation of reports required for various accreditations, rankings, surveys and compilation of data for regulatory bodies.
	Administration	a. Circular Module: • Important information/circulars can be shared with all the students/faculty members/staff members by the competent authorities by posting them through Circular Module. It can be viewed/ downloaded by students and staff

	members. b. Feedback Module: • Course-Faculty Feedback is being submittedby the students in response to the defined parameters two times within a semester. • Feedback on Curricula and Student Satisfaction Survey: Feedback is taken from stakeholders including Faculty, Students, Employers, Alumni and Parents for overall analysis and further necessary action. c. Grievance Module: • Students/ Staff members can raise Grievances from the portal and depending upon the nature of grievance. System will allocate the issue automatically to the set competent authority at Level I. If the matter is not resolved at the Level I, he/she can transfer the issue to the next Level mapped in the system against the same issue for timely solution of the issues. d. Hostel and Transport Module: • Allocation of Hostel Beds and Transport vehicle according to facilities and Route/Stop opted by the student. • Hostel and Transport ID Cards can be generated from the system. e. Recruitment form and HR Module: • Prospective candidates can apply at MREI by filling online recruitment form, collected data can be used for short listing, scheduling interview and sending E-Mail/SMS to the candidates. • Staff members can view their daily attendance(IN and OUT timings). • Check their head wise total leaves credited, leave application module, leaves status check and balance module.
Finance and Accounts	Fee Module: • Student can view/Pay (Through Credit card/Net banking) their previous balance amount with current Academic, Hostel/Transport or Miscellaneous dues. • Generate/Print Fees challan. • View/Print Fee receipts for the Paid amount.
Student Admission and Support	a. Admission Module: • Online Application form is available. • Merit list preparation from all applicant data • After verification of eligibility criteria, student goes through few stages for confirmation of admission namely- Data scrutiny, uploading/verification of required documents, Temporary batch allocation, Payment of fees, Final seat allocation seat, automatic allocation of Temporary roll no. CLAN, Generation of Admission letter ID card and allocation of

		Hostel/Transport facility on ERP. • After successful admission of student, system generates his/her EMS Login ID and Password which can be further accessed by him/herfor viewing academic performance and performing other activities. b. Student Module: • Admitted student data is well maintained/viewed with respect to Academic year, Department, batches, student status, Roll number etc fields. • Batch/Institute transfer, Withdrawal and editing etc activities can be performed in student profile. • Generation of student Permanent ID cards. c. Student Course registration Module and course approval: • Students need to register to the courses offered to them under various academic baskets, which include courses from current and previous semesters. • Students can register for the courses within the set credit limit of the offered academic basket only. • According to the course pre-requites and Payment of fees, Courses are approved by the department.
	Examination	Examination Module: • Parameter wise internal assessment marks for theory and lab courses are entered by course faculty and the same can be viewed by students. • Question Paper of Internal assessment tests is created by mapping each question with the Cognitive Level of Bloom's Taxonomy and Course Outcome, Question wise marks scored by the student are entered which further helps in measuring the student's attainment level of Course outcome. • Average of Internal assessment tests is calculated by the software by using the average formula. • Attendance and Assignment marks are automatically picked from the respective module and gets converted to Maximum marks of the parameter. • Students can view marks scored by them in every parameter, thus increasing transparency of their academic performance. • Program Outcome/Program Specific Outcome and Course outcome attainment is computed by using both Direct and Indirect Tools using i-cloud EMS itself. Course exit, Program exit and Alumni surveys are conducted for computation of attainment through indirect tools. • Admit Cards to be issued to the students for End Semester Examination are generated through EMS.

6.3 – Faculty Empowerment Strategies

6.3.1 – Teachers provided with financial support to attend conferences / workshops and towards membership fee of professional bodies during the year

Year	Name of Teacher	Name of conference/ workshop attended for which financial support provided	Name of the professional body for which membership fee is provided	Amount of support
2018	Dr. Farhat Mohsin	National Seminar-Issues and Challenges for HR Professionals, ITR Greater Noida. (2nd Nov 2018)	-	2500
2018	Ms. Amandeep Dhaliwal	International Conference - Indian Institute of Management, Kozhikode, Kerala. (07-03-2019 to 10-03-2019)	-	27309
2018	Dr. Anindita C. Rao	National HR Summit, New Delhi. (14-02-2019 to 15-02-2019)	-	5000
[View File](#)				

6.3.2 – Number of professional development / administrative training programmes organized by the University for teaching and non teaching staff during the year

Year	Title of the professional development programme organised for teaching staff	Title of the administrative training programme organised for non-teaching staff	From date	To Date	Number of participants (Teaching staff)	Number of participants (non-teaching staff)
2018	FDP on Mobile Application Programming Using Android	-	02/07/2018	06/07/2018	8	Nill
2018	FDP- Recent trends in teaching and research in Applied science	-	02/07/2018	06/07/2018	63	Nill

2018	-	Awareness Training Programme on ISO:9001	21/07/2018	21/07/2018	10	12

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6.3.3 – No. of teachers attending professional development programmes, viz., Orientation Programme, Refresher Course, Short Term Course, Faculty Development Programmes during the year

Title of the professional development programme	Number of teachers who attended	From Date	To date	Duration
Faculty Development Programme on Digital tools in Teaching Research	20	02/01/2019	07/01/2019	5
FDP on Security in Cloud (Cloud Computing)	8	02/07/2018	06/07/2018	5
FDP on Information Security intelligence and compliance analytics (Cyber Forensics)	7	02/07/2018	06/07/2018	5
FDP on Mobile Application Programming Using Android Lab (Graphics and Gaming)	8	02/07/2018	06/07/2018	5

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6.3.4 – Faculty and Staff recruitment (no. for permanent recruitment):

Teaching		Non-teaching	
Permanent	Full Time	Permanent	Full Time
77	77	7	7

6.3.5 – Welfare schemes for

Teaching	Non-teaching	Students
MRIIRS recognizes the contribution of the employees and students towards the development and progress of the Organization. MRIIRS	• The university maintains Student Staff and Alumni Welfare Fund (SSAWF) out of which assistance is given for research, higher studies,	• Dispensary with basic and emergency day care facilities with qualified Doctor and Nurse. Ambulance for Emergency. • Tie-up with Metro Heart

offers/provides rewarding welfare schemes to all the employees to ensure and increase their work efficiency. MRIIRS tries to nurture student's mental, physical, cultural growth with various activities to improve their overall personality development and to make them civilized Indian citizens to compete in the globalized world. • Fee waiver to faculty members for 4 years in PhD programme at MRIIRS. • Provision to provide seed money for research projects is available. • Award of cash incentive to the faculty for publication of research papers in the reputed 'Research Journals'. • Fee Concession to wards of faculty/staff. • In house Bloomz Day Care Crèche for the children of teaching and non-teaching members. • Apart from in-house medical facility, tie-up with Metro Heart Institute, Asian Hospital Sarvodya Hospital, Faridabad to provide Health Services to students and staff, Sarvodya Hospital to provide medical assistance within the campus. • Faculty and staff with a stay of minimum 10 years are honoured every year on the occasion of celebration of New-Year in the University. • Food courts and canteen facilities are available for food and refreshment. • Campus has 24 hr ATM facilities. During banking hours, PNB is available for the benefit of its employees. • Accidental insurance scholarship to needy students, disaster relief and entrepreneurship. • Accidental insurancecover for faculty, staff and students. • Fee Concession to wards of faculty/staff. • In-houseBloomz Day Care Crèche. (Common facility). • Excellent civic amenities, healthcare, sports and subsidized transport facility to the various destinations • Apart from in-house medical facility, tie-up with Metro Heart Institute, Asian Hospital Sarvodya Hospital, Faridabad for Health Services to students and staff. • Faculty and staff with a stay of minimum 10 years are specially honored every year on the occasion of celebration of New-Year in the University.

Institute, Asian Hospital Sarvodya Hospital, Faridabad to provide Health Services to students and staff. • Accidental insurance cover for faculty, staff and students. For hostlers, a comprehensive insurance cover is available. • Financial Assistance for development of Projects, Participation in Projects / Technical Fest/Co-curricular, Extra Curricular and Sports Competitions at National / International level. • Tuition fee waiver for Meritorious Students at the time of Admission. • Suitable freeship to high achievers and on others compassionate grounds, on case to case basis. • Scholarships for Achievers: o 1st Position: 25 of Annual Tuition Fee o 2nd Position: 15 of Annual Tuition Fee o 3rd Position: 10 of Annual Tuition Fee • Payment of Fee is accepted through Payment Gateway from ERP through Credit Card/Net banking or in any of the branches of IndusInd Bank Ltd. in India through Pre-Printed Payment Challan downloaded from their ERP portal or through NEFT/RTGS both online and at any bank's branch or Through Credit Card at Campus or Through login at Paytm.com/education. • Department of Students Welfare The Department of Students Welfare (DSW) looks after the protection of rights and supervises the welfare activities of the students of the university. DSW promotes and co-ordinates the

cover for faculty, staff and students. • The university maintains Student Staff and Alumni Welfare Fund (SSAWF) out of which assistance is given for research, higher studies, scholarship to needy students, disaster relief and entrepreneurship. • Excellent civic amenities, healthcare, sports and subsidized transport facility to the various destinations. • Conduct of Sports Tournaments for faculty members/non-teaching staff. • Faculty members are also given sabbatical to pursue their higher studies • For the benefit of teaching and non-teaching faculty members, FDPs and Skill Development courses are conducted regularly. • Advance against salary. • Financial assistance to participate and paper publications in Conferences / Workshops / Seminars/ Symposia etc both within India and abroad.

different students' activities for better corporate life. • Anti-Ragging Cell The University has constituted the Anti-Ragging Committee and Anti-Ragging Squads/ Discipline Floor Management Squads for overseeing the strict and meticulous implementation of the directives of regulatory bodies. A high-powered anti-ragging committeeunder the chairmanship of Vice-chancellor of the University, quick reaction anti-ragging committee has been put in place to ensure that the institution Campus is 100 ragging- free.In addition to this, monitoring cell and Faculty wise /Department-wise anti-raging squad, discipline squad, floor management squad, along with student representatives, parent representatives Nodal officer are constituted for strict compliance. If the committee finds that prima facie there is a case of ragging on the complaint it received, the committee will take immediate action including the filing of FIR with the local police depending on the seriousness of the case. Any student of MRIIRS found indulging and / or abetting any form of ragging shall be meted out with exemplary and justifiably harsh punishment including debarring such students from taking admissions in any institutions of higher learning in the country. • Career Development Centre The main endeavour of CDC is

		to get students placed in reputed multinational companies, government organizations, and private sectors. All students registeredwith CDC are provided placement assistance, counselling for employment. CDC assures logistics support to the visitin

6.4 – Financial Management and Resource Mobilization

6.4.1 – Institution conducts internal and external financial audits regularly (with in 100 words each)

Internal Financial Audit: Internal Audit was conducted half-yearly by highly reputed Audit Firm of Faridabad M/s Kumar Vijay Gupta Co. and it has now changed to quarterly mode. The team of professionals visits the campus and verifies the documents, all expenses and income including the fee receipts under the audit procedure and seeks clarification, if any, from the concerned functionaries. The first draft completed by IA Team is discussed with the CFO in an exist meeting and his reviewed to correct the possible omissions, if any. The finalized reports with the outstanding observations are submitted to the Management for further necessary action. The scope of internal auditing encompasses, but is limited to, the examination and evaluation of the adequacy and effectiveness of the Institution's governance, risk management and internal controls as well as the quality of performance in carrying out assigned responsibilities to achieve the Institution's stated goals and objectives. The internal auditor monitors the disposition of results communicated to management and ensures that management actions have been effectively implemented or that senior management has accepted the risk of not taking action. External Audit: The external audit is being undertaken by our Statutory Auditors-M/s Parveen S. Bansal Co., Chartered Accountants, Faridabad. The audit team scrutinizes the ledgers of expenses and income heads as well various parties including students/suppliers/other parties. They ensure the maintenance of all records as well as booking of liabilities. They verify the documents relating to loans and facilities from banks/ financial institutions. They ensure proper maintenance of books to the requirements of the statute and also verify the payment of all statutory taxes/dues and filing of returns, in time. Scope - 1. Check annual report with accurate supporting documents. 2. Verification of the receipts of monthly fees, examination fee, concession provided on fee etc. 3. To check all grant-in-aid and funds received from the government and non-govt. organizations for a particular purpose and must be utilized for the same purpose. 4. The donations and other subscriptions from various authorities. 5. Verification of income from property, investment etc. 6. Auditor vouches the amount of salaries paid with the salary-sheets and attendance. 7. Verification of all expenses 8. Checking of all the assets and liabilities are properly exhibited in the balance sheet. 9. Auditor checks all bank reconciliation statements. 10. Verification of Fixed Assets Register. 11. Confirmation of statutory compliance under Income-Tax, GST, PF, ESI etc. Internal and external audit activities are coordinated to ensure adequate coverage and to minimize duplication of effort.Access to work programs, working papers and reports of internal audit made available for review by external auditors. The Statutory Auditor files the Audit Report along with annual report every year. They certify the Balance-sheet and Income-Expenditure account of the Institution.

6.4.2 – Funds / Grants received from management, non-government bodies, individuals, philanthropies during the year(not covered in Criterion III)

Name of the non government funding agencies /individuals	Funds/ Grnats received in Rs.	Purpose
SURENDRA KHEMKA	500000	Promotion of education
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6.4.3 – Total corpus fund generated

39563000

6.5 – Internal Quality Assurance System

6.5.1 – Whether Academic and Administrative Audit (AAA) has been done?

Audit Type	External		Internal	
	Yes/No	Agency	Yes/No	Authority
Academic	Yes	External expert is a member of the Audit team	Yes	IQAC, MRIIRS
Administrative	Yes	External expert is a member of the Audit team	Yes	IQAC, MRIIRS

6.5.2 – What efforts are made by the University to promote autonomy in the affiliated/constituent colleges? (if applicable)

Manav Rachna Dental College is now under the ambit of MRIIRS as a constituent Institute vide Notification No. F-10/2016-U3(A) dated May 13, 2019 issued by Ministry of Human Resource Development (MHRD), Department of Higher Education, ICR Division, Govt. of India.

6.5.3 – Activities and support from the Parent – Teacher Association (at least three)

1. Regular parent-teacher meetings are conducted as well as regular contact is maintained through e-mails, phones and EMS. 2. Regular feedback of wards in respect of their academic and professional progression, attendance and results is provided. 3. Eliciting suggestions/observations from parents for continuous quality improvement. 4. A parent is also represented at IQAC in its various meetings.

6.5.4 – Development programmes for support staff (at least three)

Development/orientation programmes are conducted regularly for existing and new joinees in the category of support staff. 1. Regular instructional classes for professional improvements by internal and external resources are conducted to make them aware of the new quality standards in administration and student support services. 2. Regular hands-on instruction classes for communication (both written and spoken) rules, proceduring societal issues, safety and team working are conducted. 3. Instructional support to lead a healthy life style by conducting recreational events, yoga classes, sport participation etc. is ensured. Below are some development programmes conducted during this Academic Year: 1. One day workshop on Smart office and Data Management (Excel and Adobe) was conducted on 7th June 2019 for university support staff. Total participants- 10 2. Training program for Transport Staff (Nav Chetana Shivir) was conducted from 26th March 2019 to 28th March 2019. Total participants- 40. 3. A recreational trip was made to Akshardham Temple, Delhi on 16th March 2019. Total participants-38. 4. Two daysfree health check-ups/counsellingprogram for non teaching staff of MREI and Menstrual hygiene training for women employees was conducted from 22nd May 2019 to 23rd May 2019. Total participants-232

6.5.5 – Post Accreditation initiative(s) (mention at least three)

1. Four departments of Faculty of Engineering and Technology (CSE, ECE, ME, BT) have been accredited by NBA during 2018 for 3 years under Tier-I. 2. Preparation for ABET (Accreditation Board for Engineering and Technology) documentation. 3. In process for ISO Certification for three central units- Library, Examination and CRCMC(Corporate Resource and Career Management Centre). 4. Digitization Initiatives of the Government have been adopted well (SWAYAM-NPTEL). 5. More courses to open elective basket have been introduced for students of all programmes of MRIIRS to acquire interdisciplinary knowledge and skills relevant to their areas of their interest. 6. Stakeholder Feedback collation through i-cloud EMS and subsequent analysis for Curricula enhancement, Generic Facilities and course delivery. 7. Academic and Administrative Audit is conducted as per the revised and approved formats. Manav Rachna Dental College,MRDC: 1. Paperless OPD functioning: Introduction of Patient management software (Orion) by Department of Oral Medicine Radiology from May 2018. ORION Software was implemented to 'unify and subsequently nullify' grey areas and also to synchronize Clinician, Patient and Allied facets of MRDC's Functioning. 2. Filmless Radiology: Introduction of Vista Scan Technology by Department of Oral Medicine Radiology from May 2018. Using VISTA Scan, a PSP based digital radiology technology has been implemented and integrated with Orion so that all radiographs are uploaded and attached to respective patient records. These can be viewed and downloaded by any department with access to the patient records. 3. Tobacco Cessation Center Set up: The TCC set up under Department of Oral Medicine Radiology since October 2018 with primary aim of helping patients visiting OPD of MRDC to be able to quit the deleterious habit of Tobacco. It is situated on the Ground Floor near the registration area. The center operates on daily basis with a monthly schedule of posting of staff along with interns. A clear structured protocol is outlined for performing individual and optionally group counseling along with record keeping. The group sessions if conducted are planned and performed on designated days. The center maintains an updated organization chart has clear job descriptions for each center employee. All the Dental departments would refer patients who have been identified as Tobacco users.

6.5.6 – Internal Quality Assurance System Details

a) Submission of Data for AISHE portal	Yes
b)Participation in NIRF	Yes
c)ISO certification	No
d)NBA or any other quality audit	Yes

6.5.7 – Number of Quality Initiatives undertaken during the year

Year	Name of quality initiative by IQAC	Date of conducting IQAC	Duration From	Duration To	Number of participants
2018	Awareness Training Programme on ISO 9001	21/07/2018	21/07/2018	21/07/2018	28
2018	One week workshop for Teaching Methodology	26/11/2018	26/11/2018	30/11/2018	80
2019	Training Program on Quality	10/12/2018	10/12/2018	14/12/2018	44

| | Management and ISO 9001:2015 | | | | | |

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CRITERION VII – INSTITUTIONAL VALUES AND BEST PRACTICES

7.1 – Institutional Values and Social Responsibilities

7.1.1 – Gender Equity (Number of gender equity promotion programmes organized by the institution during the year)

Title of the programme	Period from	Period To	Number of Participants	
			Female	Male
Gender Sensitization and Equity Session for FET students - Prof (Dr) Chavi Bhargava Sharma	26/07/2018	26/07/2018	33	47
Breaking the Barriers of Gender by Prof (Dr) Chavi Bhargava Sharma, ED Dean - FBSS for First year students of other than Faculty of Engineering and Technology	30/07/2018	30/07/2018	41	59
Gender Sensitization for Drivers of the University by Prof (Dr) Chavi Bhargava Sharma	09/09/2018	09/09/2018	Nill	25
Gender Mainstreaming by Prof (Dr) Chavi Bhargava Sharma for students of Manav Rachna Dental College	14/09/2018	14/09/2018	35	55
Gender Shackles and Equity for class 4 employees by Prof (Dr) Chavi Bhargava Sharma	17/09/2018	17/09/2018	23	17

Workshop on Women Menstrual Hygiene drive in Mohna	05/10/2018	05/10/2018	17	13
#WithYou – Gender Sensitization, Women Empowerment and Safety" Resource by Geeta Shroff & Ms Neeldhara	23/10/2018	24/10/2018	71	81
Protection of Children from Sexual Offences (POCSO)Act,2012 by Ratna Saxena for Faculty and Students of FBSS	01/11/2018	01/11/2018	22	23
Multiple Choice Questions on Legal Rights of Women under aegis of National Commission for Women	28/11/2018	28/11/2018	26	43
Seminar on Reproductive Health with ABT Associates Pvt.ltd. , Mr.Ashok, Director Operations, and Mr.Neeraj, Regional Officer of ShopsPlus	19/12/2018	20/12/2018	24	35
One Day Training Programme on "RIGHTS OF WOMEN" in association with NHRC	15/01/2019	15/01/2019	78	102
Women Entrepreneurship Development Program (WEDP)	25/02/2019	27/03/2019	31	39
Debate on "Who is ruling	08/03/2019	08/03/2019	9	11

21st Century? Boys or Girls or Both				
Swayamsiddha	08/03/2019	08/03/2019	29	42
Self Defence Workshop by Ms. Mriganka Dadwal	10/04/2019	10/04/2019	27	33

7.1.2 – Environmental Consciousness and Sustainability/Alternate Energy initiatives such as:

Percentage of power requirement of the University met by the renewable energy sources
? Percentage of power requirement of the University met by the renewable energy sources: 8.83 ? Water Conservation • Rain water harvesting- Already exists • Sewage Treatment Plant -Already exists, the STP has been upgraded with installation of new filters and equipments for enhancing efficiency of treatment. • Energy Conservation • Generation of Renewable Energy from Solar PV Systems - Already exists • Usage of Renewable Energy from Solar devices- Already exists • Energy efficient lighting- Already exists. Approximately 800 LEDs were installed across the University campus. Motion sensors installed in the Central Library. • Prevention of Electricity/ Power Wastage- ? Water level controllers are used for over-head tanks in order to control lifting of water through pumps and prevent wastage of power and water. ? Water level controllers are used in tube well submersible pumps. ? VRV Air Conditioning in MRDC is done to reduce the power supply and improve energy efficiency. ? Installation of power factor correction units (450KVAr Capacitors) to improve the power factor to 0.98-1.00 to reduce transmission losses, improve voltage and conserve energy. ? Replacement of Servo Stabilizers with OLTC transformers to reduce power losses. • Waste Management • MoUs for Waste Management- MRIIRS has entered into MoUs with various agencies registered and certified for waste management by CPCB and/or HSPCB. Currently MRIIRS has MoU with M/S Ecogreen Energy, Gurugram, for general solid waste management, BRP Infotech Pvt. Ltd, Delhi, for e-waste management, Golden Eagle waste management company, Faridabad for biomedical waste management and MahaviraUdyog, Rohtak for hazardous waste management. • Colour coded garbage bins- Already existed, old damaged bins replaced with new colour coded garbage bins at various locations in the MRIIRS campus for segregation and collection of solid waste. • Biocomposter-Already exists • Liquid waste management- Sewage Treatment Plant already exists, it has been upgraded with installation of new filters and equipments for enhancing the efficiency of waste water treatment. • Hazardous and e-waste waste management- MoUs for Hazardous and e-waste waste management already exist. • Biomedical waste management- MoUs for Biomedical waste management already exists. ? Plantation- Well maintained gardens and lawns already exist in MRIIRS campus. • Mega Plantation Drive was conducted on 28th July 2018 by the University wherein lakhs of plants were distributed. ? Green policy- Already exists ? Other Initiatives: • An organic pesticide which is not only a bio-stimulator but is also a bio-pesticide, is developed by the Start-up 'Tricho-agronica Pvt. Ltd', incubated at MRIIRS. This Start-up is funded by IOCL under Prime Minister's Start-up Scheme. It is a Bio-formulation for tomato crop, which is meant to replace the chemical pesticides and fertilizers, and prevent water and soil pollution.

7.1.3 – Differently abled (Divyangjan) friendliness

Item facilities	Yes/No	Number of beneficiaries
Physical facilities	Yes	5000
Provision for lift	Yes	5000
Ramp/Rails	Yes	5000

Rest Rooms	Yes	12
Scribes for examination	Yes	4
Any other similar facility	Yes	140

7.1.4 – Inclusion and Situatedness

Year	Number of initiatives to address locational advantages and disadvantages	Number of initiatives taken to engage with and contribute to local community	Date	Duration	Name of initiative	Issues addressed	Number of participating students and staff
2018	12	12	02/07/2018	362	Dental Health Camps	Dental Health Care	962

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7.1.5 – Human Values and Professional Ethics Code of conduct (handbooks) for various stakeholders

Title	Date of publication	Follow up(max 100 words)
Code of Conduct for Teachers	02/03/2019	Amendment in Section II of Ordinance #12 titled Penalties and Appeals was done on 25 Jan 2019. It was submitted that there was a provision of suspension but the service conditions of an employee under suspension had not been defined in the ordinance. The service conditions of an employee under suspension such as subsistence, allowance, grant of leave, regularization of suspension period, entitlement of pay allowances on reinstatement etc are required to be spelled out in the ordinance. The BOM considered and approved the amendments to be implemented with immediate effect vide a memo released Endt. MRIIRS/Acad./2019/091 dated 02/03/2019
Code of Conduct for Non-Teaching Staff	02/03/2019	Amendment in Section II of Ordinance #12 titled Penalties and Appeals was done on 25 Jan 2019. It was submitted that there

was a provision of suspension but the service conditions of an employee under suspension had not been defined in the ordinance. The service conditions of an employee under suspension such as subsistence, allowance, grant of leave, regularization of suspension period, entitlement of pay allowances on reinstatement etc are required to be spelled out in the ordinance. The BOM considered and approved the amendments to be implemented with immediate effect vide a memo released Endt. MRIIRS/Acad./2019/091 dated 02/03/2019

7.1.6 – Activities conducted for promotion of universal Values and Ethics

Activity	Duration From	Duration To	Number of participants
Ayudh Meet	06/09/2018	06/09/2018	350
Awareness Program on Right to Vote	25/09/2018	25/09/2018	30
Road Quiz Competition with Transport Department, Govt. Of Haryana and Institute of Driving and Traffic Research	23/10/2018	23/10/2018	150

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7.1.7 – Initiatives taken by the institution to make the campus eco-friendly (at least five)

The major initiatives taken by MRIU to make the campus eco-friendly are- 1. All street lights within the MRIIRS campus have been replaced with LEDs. 2. Installation of power factor correction units (450KVAr Capacitors) to improve the power factor to 0.98-1.00 to reduce transmission losses, improve voltage and conserve energy. 3. Replacement of Servo Stabilizers with OLTC transformers to reduce power losses. 4. Installation of LED lamps and motion sensors in the Central Library. 5. Installation of timers on water refrigeration units so that these get turned off during quiet hours. 6. Digitalization of X rays. 7. Mobile dental van uses solar panel. 8. Reduction of use of paper in medical records by digitalization of patient records. 9. Environment and Green Audit by authorized agency has been initiated. Green Practices Total green area in MRIIRS campus 32104 Sqm Grass – 18,300 sqm., Tree cover – 3150sqm , shrubs herbs -5654sqm , potted plants- 5000 sqm. It includes more than 100 Medicinal Plants Irrigation of lawns are carried out in the morning evening in summers to save water loss due to evaporation and that too using treated water.

7.2 – Best Practices

7.2.1 – Describe at least two institutional best practices

1. i) Title: Impetus to Research and Entrepreneurship ii) Objective: • Objective is to build an ecosystem in the University to facilitate research in a sustained manner right at the time ofentrance of a student to the University system. • This spurs students to express their research potential and apply to it hands-on. • Another objective, inter alia, is to mentor students in their formative stage of careers to engage in research publications by going through the rigours of literature survey, fabrication of experimental set-up, use of Application softwares, use of computational techniques, follow-up analysis and then publishing in the accredited peer-reviewed national and international journals. They are even mentored to carry their research work to the next level of patent filing • Venturing into start-ups at an early age is the quintessential objective of this practice. iii) The Context: • Motivating students to travel beyond the classrooms and encouraging them on to research / publications / entrepreneurship calls for an inquisitive bent of mind. • Students have to learn and become clued up on various futuristic technologies and Application softwares. • Further, they have to develop quantitative and analytical techniques way beyond the classroom teaching. iv) The Practice: • Students are motivated and incentivized to engage in Research, paper publications, patents, project work, App development, competing in National and International level and entrepreneurship right from the first year of their programmes. Close mentorship and guidance are provided to the students by in-house faculty as well as outside experts along with all high-end technological support. • Incubation and Innovation Centre of the university provides a 24x7 Atelier for the students to realize their serendipity, creative ideation, disruptive streaks to end up in creation of commercial viable products. This is an all-out effort to enable to transcend way beyond class-room learning- a crying need for our education system. v) Evidence of Success: • Ever since strenuous efforts have been expended on this practice, we have been able to register very considerable improvements in our research publications, both for students and faculty. Our intended target of a minimum 30 YoY enhancement in research publications shall be well within reach. This has also led to a fillip in the number of start-ups to enter into the pipeline. vi) Problems Encountered and Resources Required: • A swift switch of change of mind to a research bent of mind • Devotion of huge efforts on part of students to learn Application softwares, quantitative and analytical techniques. • Professional and commercial acumen have to be imbibed in students to transform ideas towards commercially viable end products. 2. i) Title: Curriculum Design ii) Objective: • Intended objective of this practice is to design and develop an ever-evolving curriculum which would afford students a relevant education leading to developing an enquiring mind, amenability to disruptive thinking, hands-on skills, awareness of the cut and thrust of marketplace and commercial viability as against learning by rote. iii) The Context: • In the contemporary scenario, the contextual issues of higher education call upon a technology-intensive curriculum in the Indian perspective incorporating best practices of leading global universities • A curriculum design must subsume employability, acquiring hands-on skills but also spur students towards entrepreneurship besides acquiring life-skills and ethical values. iv) The Practice: • Highly industry-aligned, employability-inducing and entrepreneurship-promoting curriculum is the bedrock to lead to a well-rounded education system reinforced by communication skills, general awareness and personality development. Periodic revision of curriculum after detailed feedback from stakeholders lends to continued relevance of the curriculum. The study-schemes, beside academics, trigger creative urges, disruptive thinking and hands-on learning for the student way beyond the class-room domain. CBCS and offering open electives are essential ingredient to encourage cross-domain movement for students. • Close

monitoring, intimate mentoring of students by faculty, real-time interaction with the parents ensure a smooth progression for students and a readily available counseling to address to their emerging problems. v) Evidenceof Success: • Offering CBCS and open electives have elicited very favourable response from students. Success rate for NPTEL and other MOOC courses bear eloquent testimony to this. • Professionalaccretion, general awareness, communication skills, placements of a large cross-section of students have shown a marked improvement. vi) Problems Encountered and Resources Required: • Availability of faculty with high research acumen and hands-on skills. • Paucity of faculty with high level of expertise in modern manufacturing and computational techniques. • Logistic limitations in offering CBCS and open electives

Upload details of two best practices successfully implemented by the institution as per NAAC format in your institution website, provide the link

https://manavrachna.edu.in/wp-content/uploads/2021/03/Best-Practices.pdf

7.3 – Institutional Distinctiveness

7.3.1 – Provide the details of the performance of the institution in one area distinctive to its vision, priority and thrust in not more than 500 words

As a comprehensive, multidisciplinary, research-focused, and student-centric university, we are aimed at becoming a leading international institution of higher learning. During the last five years, a massive thrust is being given by the University to trigger students at any stage of their career to engage in Research, Research Publications and Patent Filing along with incubating their path breaking ideas to application development culminating in commercially viable products. This is slowly resulting in more students being open to the idea of starting something of their own. Bringing together this vast community of scholars for cutting-edge research, we are committed to impact the development and global image of the world. Collaboration with leading industry houses like Intel, Mitsubishi, IBM, Texas, Infineon, Honda and others comes in very handy to enable students to adopt a high technological path embedded with contemporary tools like AI, IOT, ML, IA, Addictive Manufacturing, Advanced Automation. Great emphasis is also placed on students to compete in leading technical competitions within India and Abroad to show case their precocious talent. We have won top honors in leading competitions like Microsoft Challenge Cup held in the United States. A dedicated Entrepreneurship hub - NewGen IEDC provides a good path to capital from angel investors, state governments, economic-development coalitions and other investors. The cell deals in integrated, customized Innovation based Incubation support services for potential high investable entrepreneurs and enterprises. It invites students to discuss their ideas and handholds them with ideation, developing business concepts and eventually a plan. It further provides skills and competencies through capacity building/ training programs towards building effective enterprises. Our current brigade of students are being thoroughly inspired, motivated and groomed by seniors who have already carved out a niche for themselves. The Centers and Institutes at our campus are trend setters in terms of ideas that are not utopian but realizable across the board. With sustainability becoming a Global imperative, our start up team have developed a breakthrough product- Pariyayantra - an Air Pollution Mitigation product which when attached to vehicles like buses, works as a filter by cleaning the air that passes through it. Formally flagged off by Dr. Harsh Vardhan, the then Union Minister for Environment, Pariyayantra devices have been fitted on the roofs of buses in Delhi-NCR. The results are highly encouraging as each bus cleans 250,000 liters of air for every kilometer of travel. This concept has also made it to the 'United Nations Young Champion of the Earth' listing from the Asia Pacific Region. With a strong emphasis on interdisciplinary research,

efforts are rooted in the belief towards the creation of knowledge (by researching) and not just disseminating it (by teaching). We aim to be at the forefront of the creation of new knowledge and new forms of creative expressions by ensuring that research is an agenda of all the academic programs offered at the university.

Provide the weblink of the institution
https://manavrachna.edu.in/international-institute-of-research-and-studies/

8.Future Plans of Actions for Next Academic Year

A higher educational institution is one of the most important cogwheels in the machinery of nation building. By catalyzing innovation and promoting higher skills, it is one of the major launch pads for tackling some of the important social and global challenges in a country. Improved standards of living and well being emerge when an economy has a robust system of higher education that serves as a hub for knowledge exchange, dissemination and application. From creating a quality workforce, supporting professional development, inspiring research endeavors to understanding exactly what the industry needs, universities play a pivotal role in defining the growth trajectory of a country. As a part of this eco-system in India, Manav Rachna International Institute of Research and Studies (MRIIRS) is aware of its responsibility and the potential power it holds to be a tool of transformation for India's youth. By taking inspiration from some of the best universities across the globe and endeavoring for excellence, MRIIRS plans to take the following steps for the next academic year and a few years ahead: 1. Raising Benchmarks: India would be a dream country if every educational institution worked at the level of an accredited IOE (Institution of Excellence). MRIIRS actively instills that dream in the eyes of every member of Manav Rachna family and it has ensured that everyone collectively works in the direction of receiving top accreditations from NAAC, NBA, NIRF and ABET, which shall be an important goal for the next session. 2. Contribute in building a potent work force: The education market is now thriving on the back of a workforce proving itself equal to their counterparts elsewhere in the world in productivity. MRIIRS intends to enhance its technology enabled pedagogical delivery to a further level leading to highly industry-oriented and job-oriented professional education. As of now, all the departments of all the faculties invite industry experts to give first-hand insight into the expectations of the industry. Classroom employability training is a part of the curriculum along with subjecting the students to employability testing at regular intervals, which ensures that the students are closer to the kind of workforce expected by the industry by the time they graduate. Efforts will be enhanced in this direction. 3. Expand research work: We plan to register a 30-35 Year-on-Year growth in our publications in Scopus and Web of Science Databases, and number of patents filed by faculty and students. 4. Improved status with Government institutions: We plan to acquire FIST and A-Star status besides targeting other recognitions from the Department of Science and Technology, and Department of Biotechnology, Government of India 5. Contribute to the industry: Several individuals from academia associate themselves as consultants with entities, individuals and organizations from the industry. MRIIRS shall strive to register a 30-35 Year – on – Year growth in consultancy. Faculty members working on consultancy projects at our campus, more often than not, have a team of carefully selected students assisting on the project, thus bridging the gap between knowledge and practice in larger scheme of things. 6. Encourage students to take up higher studies: MRIIRS envisages a Year-on-Year growth of about 30 in number of students going for Post Graduate Studies which will eventually result in a highly specialized workforce, better equipped to survive in an era where AI is changing employment scenarios across industries. 7. Sustainability and Rural Transformation: In the coming year, each faculty member and student of the university will be encouraged to actively work towards any one of the 17 UN Sustainability Development Goals. As of now, MRIIRS through Dr. O.P

Bhalla Foundation and several other NGOs is thoroughly engaged in Institutional Social Responsibility activities of which faculty members and students are an active part. From setting up blood donation camps to food donation, running computer literacy workshops in villages and teaching English at government schools, MRIIRS generates opportunities for its students to contribute at the grass root level. More forays will be made in this direction. India's education sector is geared up to take centre stage in global education arena. It is headed towards becoming technology extensive which will address the problems faced by the education sector at present including the accessibility, quality of education, dearth of quality teachers and requisite infrastructure. While focusing on education and innovation, MRIIRS recognizes its shared responsibility to build and operate a campus that contributes to the well-being of every member of the community — and ultimately to the health of the planet. By building and running greener, more efficient buildings and implementing sustainable operations throughout the campus, MRIIRS shall endeavor to focus on nature and ecosystems, health and well- being and a culture of learning in this direction through synergistic efforts of faculty members and the students. The words "Manav Rachna" essentially means building a human being – a role that the university plays in letter and spirit by becoming a conscious partner in each student's journey of becoming a responsible citizen of the country. In the next academic year, MRIIRS will continue to expand its contribution in spreading awareness and inspiring innovation in areas of Quality Education, Gender Equality, Clean Water and Sanitation, Affordable and Clean Energy, Industry Infrastructure, Responsible Consumption Production, Climate Action that will eventually help in building Sustainable Cities Communities, thus holistically and effectively doing its bit in India's journey of achieving UN's Sustainability Development Goals.