

Manav Rachna University, Faridabad
(formerly Manav Rachna College of Engineering)

**MINUTES OF THE
SEVENTEENTH MEETING OF THE
ACADEMIC COUNCIL**

Dated: October 30, 2021



MINUTES OF SEVENTEENTH MEETING OF THE ACADEMIC COUNCIL OF MANAV RACHNA UNIVERSITY HELD ONLINE THROUGH MICROSOFT TEAM APPLICATION ON 30.10.2021 (SATURDAY) AT 11:00 AM.

A meeting of the Academic Council of Manav Rachna University was held online on Saturday, Dated 30.10.2021 at 11:00 AM to consider various academic matters.

The following were present:

- 1) Prof. I.K. Bhat, Vice Chancellor / Chairman
- 2) Prof. V.K. Ahuja, VC, NLU & Judicial Academy, Guwahati
- 3) Prof. S.K. Garg, Professor, DTU, Delhi
- 4) Prof. Anita Rastogi, Professor, JMI, New Delhi.
- 5) Prof. M.L. Singla, Professor, Faculty of Mgt. Studies, DU, Delhi
- 6) Prof. Vikram Goyal, Professor, CSE, IIIT-Delhi
- 7) Prof. Raj Senani, Prof. Emeritus & Former Director, NSIT now, NSUT, Dwarka
- 8) Prof. Kanupriya Sachdev, Professor, MNIT
- 9) Prof. Devender Kumar, Professor, DTU, Delhi
- 10) Prof. Sangita Kansal, Professor, DCE, Delhi
- 11) Prof. Sangita Banga, Dean, Academics
- 12) Prof. Pradeep Kumar Varshney, Dean, Research
- 13) Prof. Shruti Vashisht, Dean, Students Welfare & HoD, ECE.
- 14) Prof. Versha Vahini, Assoc. Dean & HoD, Law
- 15) Dr. Babita Parashar, Dean, Education
- 16) Ms. Hanu Bhardwaj, HoD, Computer Science & Technology
- 17) Prof. Sujata Nayak, HoD, Mechanical Engg.
- 18) Dr. Jai Prakash, HOD, Physics
- 19) Dr. Rashee Singh, HoD, Education.
- 20) Dr. Deepa Arora, HoD, Mathematics
- 21) Dr. S.K. Shukla, HOD, Chemistry,
- 22) Dr. Paragati Chauhan, HoD, Mgt. & Com.
- 23) Dr. Megha Mittal, Assoc. Prof. Chemistry
- 24) Dr. S.K. Bose, Assoc. Prof. Law
- 25) Prof. Geeta Thakur, Professor, Education & Head ASLI
- 26) Prof. Jyoti Pruthi, Professor, CSE
- 27) Dr. Hardeo Kumar Thakur, Assoc. Professor, CSE
- 28) Dr. Subodh Saluja, Associate Professor, Mgt. & Com.
- 29) Dr. Joginder Singh, Associate Professor, M.E
- 30) Dr. Charu Pathak, Associate Professor., ECE
- 31) Dr. Savita Sharma, Assistant Professor, Education
- 32) Dr. K. Singh, Registrar/Member Secretary

Prof. Parul Jhaharia, Dean, Management & Commerce could not attend the meeting due to her other professional engagements. She was granted leave of absence by the Chair:

Following are the minutes of the meeting:



The Registrar welcomed all the members present in the meeting and requested the Vice Chancellor to open the meeting with his brief remarks.

17.1 Opening Remarks by the Chairman

The chairman, welcomed all the honourable members present in the meeting and informed the Council about the activities carried out by the university, since the last meeting of the Academic Council. Some of the main points are listed below:

- (1) Admission process for the session 2021-22 is going on; 565 admissions have been made in various programmes till 29th October 21. We hope to have more admissions as the process will continue till 30th November as per UGC/AICTE directions. In Ph. D program too total 53 admissions have been made till date against the 75 seats that were advertised by the University. This year, Ph. D. admissions were scheduled for July session and Ph.D. entrance exam was conducted on 24th July 2021.
- (2) The University has signed MOU with Sofocle Innovation Labs Pvt. Ltd - to collaborate in the areas of enablement of Blockchain Learning and Ecosystem Development. This partnership will help to set up a Blockchain Centre of Excellence (CoE) on MRU premises.
- (3) Placement process for 2022 Batch is in progress. Department wise placement position is as follows:
 - **Department of CST:** 80 students out of 135 eligible students are placed with Salary Package: 9.2 LPA (CTC) offered by XEBIA.
 - **Department of Mathematics:** 06 students (B.Sc. & M.Sc. Maths) out of 23 eligible students are placed with Salary Package: 10 LPA (CTC) offered by LIDO LEARNING.
 - **Department of ME:** One Student got placed with Shivalik Tractors.
 - **Department of Mgt. & Com:** One student of BBA Got placed with Cargo Flash as Business Analyst Intern.
- (4) **Faculty and Departmental Achievements**
 - Department of CST organized “5-Days STTP on ML using Python” for research scholars and faculty members at national level from 19.07.2021 to 23.07.2021.
 - Department of ECE organized a five day online workshop on IOT and sensors from 26th July to 30th July 2021, with 8 speakers under silver jubilee celebration, in which more than 150 academicians and Industry personnel participated
 - Department of Education organized a National Webinar on “Understanding and Achieving Sustainable Development through Education” in collaboration with Faculty of Law, Manav Rachna University on 13th August 2021.



- Department of Education organized a two day online training program (CRE) on "Research in Special Education" in collaboration with NIEPID Regional Centre, Navi Mumbai, from 13th to 14th September, 2021.
- Dr. Babita Parashar was invited as a Resource Person to deliver a session on 'Review of Literature' in RCI sponsored CRE FDP on "Research in special Education" on 13th September 2021.
- Dr. Geeta R Thakur Conducted workshop on Use of Puppetry and Educational Resources in teaching through the course of Drama and Art in Education organized by St. Xavier's Institute of Education on 20th August 2021. She also conducted a Session on " Core: Heartfulness" organized by Chetna Society of K. R. Mangalam University on 2nd September 2021.
- Dr Manmeet Bali Nag has submitted one research proposal on "Senior Care & Entrepreneurial terrain" besides a research proposal to "Azim Premji University" in the domain of SDG aligned dimension pertaining to "Labour, Livelihood & Employment", in September 2021.
- Dr. Sujata Nayak has received invitation for delivering 3 modules of "Renewable Energy Technologies and their uses" on SWAYAM Platform at School of Engineering and Technologies, IGNOU in the month of September 2021.
- Dr Pragati Chauhan Mentored the Top 100 Finalist of the Young Tycoons Business Challenge (YTBC) 2021. Her mentoring support to a team from Bangladesh was selected among the Top 28 teams to enter in the Grand Finale of YTBC 2021. The team received the second runner prize of 2000USD.
- Dr Pragati Chauhan also received a letter of appreciation at the 'Start me-UP Awards', a Global Felicitation Ceremony held virtually on 25th June 2021 organized by NEN a Wadhvani foundation initiative to appreciate the efforts of its Global Jury members who evaluate promising student ventures across the globe.
- Dr. Megha Bansal Chaired a Technical session in National Seminar on "Research and Innovation for Sustainable Development of India" September 6-7 2021 Organised by National Council for Cement and Building Materials, Ballabgarh, Haryana.
- Ms. Gaganjot Kaur of CST Dept. received Certificate of Appreciation for organizing and coordinating the Faculty Development Program on "Advance Excel with Data Visualization" from 30 Nov 2020 till 05 Dec 2020 and delivered by EICT Academy - IIT, Kanpur
- Dr. Manpreet Kaur of CST dept. Co-Chaired, Innovation & Entrepreneurship Track of IEEE Returning mothers conference, August 2021 Organized by IEEE WIE Sections of India for 2 Days in August 2021.
- Dr. Manpreet Kaur of CST Dept received Honorary Women in Engineering Recognition for Contribution as IEEE Chair, WIE Delhi Section on 04/July/2021



by IEEE Delhi Section. IEEE MRU Women in Engineering (WIE) Student Affinity Group under mentorship of Dr. Manpreet Kaur has successfully got IEEE WIE R10 (Asia Pacific Region) Fund of 300 dollars for the year 2021. From 26th to 28th October the Symposium was organized and was a great success.

- Mr. Chandra Prakash conducted online sessions on "Inclusive Pedagogy for Children with SLD" & "Blended Learning for Children with SLD" in CRE Programme on "Learning Disability: Inclusion and Technology" conducted by Composite Regional Centre for Skill Development, Rehabilitation & Empowerment of Persons with Disabilities, (Divyangjan), Nagpur on 29th & 30th July 2021.

(5) **Students Achievements**

- 4 students from the Department of Management & Commerce were selected for internship at Atal Incubation Centre (AIC)- BIMTECH Noida. They successfully completed their internship in the month of August.
- SHREYA SINDHWANI, under the mentorship of Dr Megha Bansal Presented poster "Determination of Sun Protection Factor of Natural Extract" in International Conference on Recent Advancements in Chemical Sciences - 2021 [ICRACS-2021] July 14-16, 2021, Organized by DEPARTMENT OF CHEMISTRY, J. C. Bose University of Science and Technology, YMCA, Faridabad.
- Ms. Punam Rani, Ph. D. scholar along with Vinayak Vandan Pathak and Megha Bansal presented paper entitled "Co-digestion of lignocellulosic biomass waste with cow-dung: Experimental studies for biogas production potential" in National Seminar on "Research and Innovation for Sustainable Development of India" September 6-7, 2021, Organized by National Council for Cement and Building Materials, Ballabgarh, Haryana and received the best paper award
- Three Teams of B. Tech CSE Final Year Students, Manav Rachna University, participated in 48 Hrs Hackathon Xethon on 27-28 September, organized by Xebia wherein around 50 teams participated across India. Team Fantastic4 bagged the second position in the Hackathon and won cash prize of Rs 25,000/-
- Nandini Chauhan, student of 4th year of B. Tech.CSE received fellowship at Teach for India and Admission at Columbia Business School selected for Fellowship on 6th July 2021.
- Nine Students of B.Tech. CSE 6th Sem with Specialization in Data Science & Machine Learning were taken for Internship Engagement with Xebia on 11 Aug 2021.
- Gauri Verma, student from B.Tech CSE grabbed the 2nd position in online group discussion on "Air pollution and its mitigation" on 31 Jan 2021 in Environment



Youth Forum 2021, Region Level, Zone1 online competition organized by Prayavaran Sangrakhana and Ashoka University.

- Mr. Rahul Thakur and Mr. Parag Kumar Garg, student of BTech CSE 8th semester have been recognized as NPTEL Discipline Star for his Six MOOC Courses in Computer Science & Engineering Discipline where each course ranged between 8 to 12 weeks. The certificate of recognition has been awarded to him by SWAYAM-NPTEL
- Mayank Saxena, student of BTech CSE with Data Science & Machine Learning 4th Sem grabbed the opportunity of Intern (Graphic Designer) with Xebia.
- Avni Bhatia, student of BABED Vth Sem (2019 Batch) published her first poetry collection 'Fall', in July 2021

With these remarks, the Hon'ble Chairman, requested Registrar to take up agenda of the Meeting. The Registrar thanked the Chairperson and took up the agenda items of the meeting one by one as under:

17.2 Confirmation of the Minutes of the 16th Meeting of the Academic Council held on 20.07.2021

Hon'ble Members of the Council were informed that Minutes of the 16th Meeting of the Academic Council, held on 20.07.2021, were circulated to all the members through email on 13.08.2021, no comments were received from any member. The Council was requested to confirm the Minutes.

Decision: Academic Council confirmed the minutes of last meeting of the Council.

17.3 Action taken report on the decision taken in the 16th meeting of the Academic Council.

Registrar while apprising the Members about the minutes of the meeting of the last academic council also took up the action taken report on the decisions of the last Meeting of the Academic Council for ease of the members. One of the Member inquired about the implementation of project-based learning. On which Dean, Academics responded that the approval for implementing the project-based learning was taken in the last meeting and accordingly Engineering Departments were asked to pick up one subject area to be offered in project-based learning mode in the 3rd, 5th & 7th Semester. The assessment was planned in five stages: 30% assigned for the fundamental concepts and 70% assessment will be done based on the project that students are working upon. Up till now, assessment has been done up to three stages. The impact of such type of pedagogy is expected to be visible after one complete semester. In case University feels some modifications are required to make it more effective the same



would be done in due course with the approval of the Academic Council. Efforts of the University in this case were duly appreciated by the member. Members were requested to take the action taken report on record.

Decision: Academic Council took the Action Taken Report on record.

17.4 Matter for information

Registrar informed the members that he would like to skip the points already covered by Vice Chancellor in his opening remarks to avoid any repetition. He presented some of the matters not mentioned by The VC for information of the Hon'ble members:

- (i). Achievements of Faculty
- (ii). Achievements of Students from last meeting onwards
- (iii). Events, Workshops organized by the Department
- (iv). MOU executed with university for academic developments
- (v). Research and Innovation Activities
 - Research Publications in Journals and Conferences
 - Research Projects submitted by the faculty members
 - Patent Published
 - Innovation and Prototype Development activities/Award Won by the students
 - Events organized by MRU-IIC units
 - Start-ups in progress

Hon'ble members were requested to allow for taking the above matter on record.

Decision: Academic Council took the above information on record.

17.5 Approval of admissions made in Ph.D. Programs for the academic session 2021-22.

Academic Council was informed about the initiation of admission process for Ph.D. Programs for the academic session 2021-22. It was stated that 223 applications were received out of which 74 aspirants were exempted from test & course work as per approved guidelines. 111 candidates appeared in the written test conducted online by the University on 24th of July 2021. Finally, 76 Candidates were selected for admission to Ph.D. Programs against 75 seats available with the departments. Details of number of students (53) who joined the university in different departments are as under:-

S. No	Department	No. of Seats Advertised	No. of Candidates Selected	No. of Candidate in Waiting	No. of Admissions Taken
1.	Department of CST	15	15	5	10
2.	Department of ECE	6	6	0	3
3.	Department of ME	1	1	0	0
4.	Department of Chemistry	5	5	0	1
5.	Department of Physics	6	6	0	0
6.	Department of Mathematics	10	10	0	4
7.	Department of	12	12	6	12+1 (Re-



	Management				Registered)
8.	Department of Education	10	10	10	10
9.	Department of Law	11	11	4	11
				Total	52

Total 53 students joined the program till date and course work started from 04.09.2021. List of Ph.D. Scholars admitted to the program were shared with the Members. Thereafter, the Members were requested to approve the Ph.D. admission made for the academic year 2021-22.

Decision: Academic Council approved the Ph.D. admission made for the academic year 2021-22.

17.6 Consideration of change in nomenclature of Faculty to Manav Rachna School

Hon'ble Members were apprised that the University is presently having the following 05 Faculties and 09 Departments working under them:

- Faculty of Engineering :

- o Department of Computer Science & Technology
- o Department of Mechanical Engineering
- o Department of Electronics and Communication Engineering

- Faculty of Applied Sciences :

- o Department of Physics
- o Department of Chemistry
- o Department of Mathematics

- Faculty of Education & Humanities with Department Education & Humanities

- Faculty of Management & Commerce with Department of Management & Commerce

- Faculty of Law with Department of Law

Now, the University intends to change the nomenclature of the Faculties as Manav Rachna Schools. Accordingly, these faculties will be named as:

1. Manav Rachna School of Engineering (MRSoE)
2. Manav Rachna School of Applied Sciences (MRSoA)
3. Manav Rachna School of Management & Commerce (MRSoM&C)
4. Manav Rachna School of Education & Humanities (MRSoE&H)
5. Manav Rachna School of Law (MRSoL)

It was further informed that Academic Council has the power to recommend change / create the Departments of the University subject to further approval of the Board of Management and Governing Body of the university. After that proposal will be submitted to the DHE, for notification of the amendment in the official gazette.



The members were requested to consider the proposal and recommend the same for approval of the Board of Management.

Decision: Academic Council considered and recommended the same for approval of the Board of Management.

17.7 Admission policy for admission to various UG/PG programs during the academic session 2022-23.

Members were apprised that to prepare admission brochure for the Academic Session 2022-23 it is necessary to finalize the admission policy for admission in various UG-PG programs. The following changes in the intake are proposed to be made in some of the programs as below:

- Clubbing the Intake of B. Tech. CSE Specialization together, retaining the total intake as 120.
- Reducing the intake of BBA (EFB) to 30 from 60
- Reducing the intake of M.Sc. Physics, Chemistry and Mathematics to 10 each from 20 each
- Reducing the intake of B.Ed. and BA / B.Sc. B.Ed. to One Unit of 50 each from two units of 50 each
- Increasing the Intake of LLM One year (Full Time) from 20 to 30 and reducing the intake of LLM (One Year -Part time) with Two-year duration from 40 to 10.

However, the eligibility conditions and criteria of selection shall remain the same as it were approved for the year 2021-22. Accordingly, intake, eligibility & selection criteria in respect of Various UG/PG Programs are as follows:

TABLE INDICATING PROGRAMMES, INTAKE, ELIGIBILITY AND MERIT CRITERIA

Sl. No	Name of the Program	Intake	Minimum Eligibility Criteria	Criteria of Selection
Bachelor of Technology				
1	B.Tech Computer Science & Engineering	120	Pass in 10+2 examination with at least 55% marks in aggregate in 5 subjects and eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics & Mathematics and ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.	Merit preparation/ short listing of candidates shall be on the basis of score in JEE Mains 2022/SAT/Uni Gauge E 2022/ MRNAT 2022/ XII Qualifying Examination



	B.Tech. in Computer Science & Engineering (Specialization in Artificial Intelligence & Machine Learning) in association with Xebia (Specialization in Cloud, DevOp's & Automation) in association with Xebia (Specialization in Cyber Security & Threat Intelligence) in association with Quick Heal	120	Pass in 10+2 examination with at least 65% marks in aggregate in 5 subjects and eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics & Mathematics and ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.	
2.	*B.Tech. Electronics & Communication Engineering	30	Pass in 10+2 examination with at least 50% marks in aggregate in 5 subjects and eligibility shall be determined on the basis of percentage of aggregate marks in i. English, Physics & Mathematics and ii. One subject out of Chemistry, Computer Science, Biology or Biotechnology and iii. One subject with the highest score out of the remaining subjects.	
	*B.Tech. Electronics & Communication Engineering (Specialisation in VLSI Design & Verification) in association with True Chip			
3.	B.Tech. in Mechanical Engineering	60		
	B.Tech. in Mechanical Engineering (specialization in Smart Manufacturing & Automation)			
		330		

Note: * In case student earns additional 18-20 credits in a particular domain, he/she will get the Hons. Degree with specialization in the respective domain.

Bachelor of Technology (Lateral Entry)

4.	B.Tech. CSE	12*	50% marks in Diploma in Engineering in any branch/discipline of 3 year duration from State Board of Technical Education, Haryana or equivalent examination or B.Sc. Degree from a recognized University as defined by UGC with at least 50% marks and passed XII standard with Mathematics as a subject	Merit preparation/ short listing of candidates shall be on the basis of score in MRNAT 2022/ Diploma Qualifying Examination
5	B.Tech. in Computer Science &	12*	65% marks in Diploma in	



	Engineering with specialization in Artificial Intelligence & Machine Learning in association with Xebia.		Engineering in any branch/discipline of 3 year duration from State Board of Technical Education, Haryana or equivalent examination or B.Sc. Degree from a recognized University as defined by UGC with at least 50% marks and passed XII standard with Mathematics as a subject
	B.Tech. in Computer Science & Engineering with specialization in Cloud, DevOPs and Automation in association with Xebia		
	B.Tech. in Computer Science & Engineering with specialization in Cyber Security & threat Intelligence in association with Quick Heal		
6	B.Tech. Electronics & Communication Engineering	3*	50% marks in Diploma in Engineering in any branch/discipline of 3 year duration from State Board of Technical Education, Haryana or equivalent examination or B.Sc. Degree from a recognized University as defined by UGC with at least 50% marks and passed XII standard with Mathematics as a subject.
	B.Tech. Electronics & Communication Engineering (Specialisation in VLSI Design & Verification) in association with True Chip		
7	B.Tech. Mechanical Engineering with specialization in Smart Manufacturing & Automation	6*	
	B.Tech. in Mechanical Engineering with specialization in Smart Manufacturing & Automation		
		33	

***In addition to above, admissions can be made against the seats remaining vacant, if any, in 1st year of Academic Year 2022-23**

Master of Technology

8	M.Tech. Computer Engineering	6	Minimum 50% marks or equivalent CGPA in B.E./B.Tech. in Computer Science & Engineering/ Computer Technology/ Information Technology/ MCA or equivalent	Merit preparation/ short listing of candidates shall be on the basis of score in GATE/Graduation Qualifying Examination
9	M.Tech. Electronics & Communication Engineering with specialization in Embedded System & VLSI	6	Minimum 50% marks or equivalent CGPA in B.E./B.Tech. in Electronics & Communication Engg./ Telecommunication Engg./ Computer Science & Engineering/ Instrumentation & Control Engg./ Electrical & Electronics Engg./ Electrical Engg./ Power Electronics or/ MCA or M.Sc. Computer Science/ Information Technology/ Electronics/Physics/ Mathematics as one of the subjects.	
10	M.Tech Mechanical Engineering	6	Minimum 50% marks or equivalent CGPA in B.E./B.Tech. in any discipline.	
		18		



Note: Teaching Assistantship of Rs.10000/- per month for 12 teaching months during the 2 years duration of the M.Tech program is available to interested/eligible candidates. Candidate has option to avail either Scholarship based on Merit or apply for Teaching assistantship subjected to meeting the necessary selection criteria.

FACULTY OF MANAGEMENT & COMMERCE

1	BBA (Health Care Management) supported by leading hospitals of Delhi & NCR	30	Pass in 10+2 examination with at least 50% marks in aggregate in 5 subjects. Should have qualified English as a subject.	Merit preparation/ short listing of candidates shall be on the basis of score in SAT/ MRNAT/ 10+2 Qualifying Examination.
2	BBA (Finance & Accounts)	60		
3	BBA (Entrepreneurship & Family Business)	30		
4	BBA (Operations Management with specialization in Supply Chain Management, Logistics & Projects Management)	30		
5	BBA (Business Analytics)	30		
		180		

In case candidate has opted for an additional subject in class 12th, aggregate shall be calculated counting the best 5 subjects including English as one of the subjects.

FACULTY OF APPLIED SCIENCE

1	B.Sc. (Hons.) Chemistry	25	Pass in 10+2 Examination/ Equivalent Examination with at least 50% marks in aggregate in 5 subjects out of which 3 subjects English, Physics & Chemistry are mandatory.	Merit preparation/ short listing of candidates shall be on the basis of score in SAT/ MRNAT/ 10+2 Qualifying Examination.
2	B.Sc. (Hons.) Mathematics	25	Pass in 10+2 Examination/ Equivalent Examination with at least 50% marks in aggregate in 5 subjects out of which 4 subjects Physics, Chemistry, Mathematics & English are mandatory.	
3	B.Sc. (Hons.) Physics	25		
4	M.Sc. Chemistry	10	Pass in B.Sc. or B.Sc. (Hons.) with 50% or more marks in relevant subjects.	Merit preparation/ short listing of candidates shall be based on score in MRNAT/ Graduation Qualifying Examination.
5	M.Sc. Mathematics	10		
6	M.Sc. Physics	10		
		105		

FACULTY OF EDUCATION & HUMANITIES

1	B.Ed.	50	Pass with 50% or more marks	Merit preparation/ short
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2	B.Ed. Special Education (Learning Disability)	30	in aggregate in the bachelor's degree and/or in master's degree in Sciences/Social Sciences/ Humanities/ Bachelor's in Engineering or Technology with specialization in Science and Mathematics with 55% marks or any other qualification equivalent thereto.	listing of candidates shall be based on score in MRNAT 2022/ Graduation Qualifying Examination.
3	B.A. B.Ed. Integrated	50	Pass in 10+2 with 50% or more marks in aggregate with English as a subject.	
4	B.Sc. B.Ed. Integrated		Pass in 10+2 with 50% or more marks in aggregate in Science-Medical/Non-Medical Stream with English as a subject.	
		130		
In case candidate has opted for an additional subject in class 12th, aggregate shall be calculated counting the best 5 subjects including English as one of the subjects.				
FACULTY OF LAW				
1	B.A. LLB (Hons.) (5Years)	60	Pass in 10+2 Examination with 50% or more marks in aggregate in 5 subjects. Should have qualified English as a subject.	Merit preparation/ short listing of candidates shall be on the basis of score in SAT/ CLAT/ MRNAT 2022/ 10+2 Qualifying Examination.
2	BBA LLB (Hons.) (5 Years)	60		
3	LLB* (3 Years)	60	Pass with 50% or more marks in aggregate in the bachelor's degree in the qualifying 3 or 4-year bachelor's degree Examinations.	Merit preparation/ short listing of candidates shall be based on score in SAT/MRNAT 2022 / Graduation Qualifying Examination.
4	LLM (One Year)	30	Pass in LLB or 5 Year Integrated Law course with 50% or more marks in aggregate. Preference shall be given to the law graduates with experience of 3 years or more	Merit preparation/ short listing of candidates shall be based on score in MRNAT/ Graduation Qualifying Examination.
5	LLM (Part Time) with 2-year Duration	10		

Dean, Academics apprised the Members that B. Tech. in Computer Science & Engineering with specialization in Cloud, DevOp's & Automation which is not picking up, is being proposed to be offered with the change in specialization from Cloud, DevOPs and Automation to "Cloud, DevOp's & Full Stack"

Prof. M.L. Singla inquired about the impact of reduction in intake in the programs, whether it is going to reduce the no. Of faculty in the program. The query was duly



responded that it will not affect the employment of faculty/staff. Other Expert members also inquired about dropouts the programs and reasons for clubbing of intake of B. Tech. CSE Specializations, which was also explained by the Dean, Academics up to their satisfaction.

After detailed discussion, Council approved the proposed admission policy for the Academic Year 2022-23.

Decision: Academic Council approved the Admission Policy for the Academic year 2022-23.

17.8 Consideration of norms for Post-Doctoral fellowship.

The Academic Council was informed that the University intends to offer Post-Doctoral Fellowship from current academic session 2021-22. Accordingly, the Norms/Guidelines have been prepared and placed before the Members for consideration and suggestions.

While going through the proposed eligibility criteria, Prof. V.K. Ahuja observed that sometimes, the candidates who have submitted the Ph.D. their evaluation of the thesis may take more time than expected and by the time fellowship tenure comes to an end. He was of the opinion that it should be categorically mentioned in the eligibility criteria, and the same has been incorporated in the guidelines.

Prof. Kanupriya Sachdeva enquired whether name of the mentor would be required to be submitted by the candidate along with application form or it will be submitted after selection. Further, a query was also raised that whether Mentor would be required to be chosen from within the University or from outside. After detailed deliberation, it was resolved that the candidate may mention the name of the mentor with whom he shall be working otherwise the university will allocate one having the expertise in the area in which the candidate wishes to work. Further if the mentor from the university feels addition of another mentor (From within or outside the university) is required, he may do so with the approval of competent authority. if area of specialization is available otherwise, he may also associate from outside the University.

The New draft with modification as suggested by the Council is being prepared and circulated as an **Annexure-1**.

Decision: Academic Council approved the norms for Post-Doctoral fellowship with the amendments suggested above.

17.9 Finalization of new Area Specific courses for Ph.D. Programme in Mathematics, Chemistry and Physics.

The Hon'ble Members were informed that the Faculty of Applied Sciences has proposed new Area specific courses **for Ph.D. Programme in Mathematics, Chemistry and Physics**. The Department wise area specific courses proposed to be offer are mentioned hereunder –



S. No.	Department	Area Specific Course name
1	Mathematics	Approximation Theory (MAN805)
2	Mathematics	Structures on Manifolds (MAN806)
3	Mathematics	Theory of Sampling Survey (MAN807)
4	Chemistry	Polymer Chemistry and Processing (CHS803)
5	Chemistry	Electrochemical Batteries (CHS804)
6	Chemistry	Biosorption of heavy metals and instrumental techniques (CHS805)
7	Chemistry	Biomass Conversion to Biofuels and Bioenergy (CHS806)
8	Physics	Ionospheric Physics (PHS332)

The Chairman observed that the type of course which needs to be picked up by the candidate must be left to the supervisor. By mentioning only specific course might restrict a candidate. Further, Dean Academic also suggested that these area specific course may be designed by the faculty and should be approved by the BoS.

Decision: New Area Specific courses for Ph.D. Programme shall be designed by the Faculty in consultation with Supervisor and recommended by the BOS of the Department for approval of the Vice Chancellor.

17.10 Finalization of new Value-added courses for existing UG and PG Programs of Mathematics, Chemistry and Physics.

The Council was informed that Board of Faculty, Applied Sciences has proposed to introduce new Value-Added Courses for existing UG and PG programs in Mathematics, Chemistry and Physics. Dean, Research presented the need of such a proposal. After detailed deliberation, it was resolved that such courses need to be normally outside the domain and must fulfil the NAAC requirement of 30 face to face classes as well.

Decision: Academic Council approved that new Value-added courses need to be normally outside the domain and must fulfil the NAAC requirement of 30 face to face classes as well.

17.11 Approval of syllabus of B.Sc. B.Ed. offered by the Department of Mathematics in semesters 5th to 8th of the program for the batch 2019 and onwards.

It was informed that the Department of Mathematics has proposed syllabus of B.Sc. B.Ed. Integrated Education program for 2019 admitted and onwards batches. The syllabus of Mathematics courses up to IV semesters were approved in previous meeting



of the Academic Council and now, the syllabus for the remaining courses from V to VIII semesters were considered and recommended by the Board of Faculty, Applied Sciences for approval of the Academic Council. Syllabus were presented before the Council.

Decision: Academic Council approved the proposed syllabus to be offered to B.Sc. B.Ed. students by the Department of Mathematics in semesters 5th to 8th of the program for the batch 2019 and onwards.

17.12 Reporting of the Action taken by the University on feedbacks received from the various stakeholders i.e. Faculties of the Departments, Alumni and Employers during the Academic Year 2020-21.

The Academic Council was informed that University regularly collect feedback of different stakeholders viz. students, faculty members, alumni, employers and the departments which aims to monitor, review and improve the overall quality of teaching learning process. The feedbacks conducted on curriculum design to strengthen and improve the academic system at University from various stakeholders were collected and analyzed for taking an appropriate action on a regular basis for syllabus revisions, restructuring of the curriculum and quality improvement during the year 2020-21.

The feedback report is also hosted on the institutional website to maintain transparency. Academic Council was requested to take the Feedback Report and Action Taken on records. It was widely applauded by the Members and accepted.

Decision: Academic Council accepted Report regarding Action Taken on Feedback. Accepted Action Taken Report with feedback for the academic Year 2020-21 is annexed as Annexure No-2.

The meeting ended with a vote of thanks to the Chair



(Dr. K. Singh)
Registrar/Member Secretary

F.NO. MRU / AC (A&M) / Vol. IV / 2018/

Dated 25.11.2021

Copy To,

- (1) PS to Chancellor for kind information to Hon'ble Chancellor
- (2) PS to VC for kind information to Hon'ble Vice Chancellor
- (3) PS to VP, MREI for kind information to Hon'ble Vice President
- (4) Prof. V.K. Ahuja, Vice Chancellor, NLU & Judicial Academy, Guwahati
- (5) Prof. S.K. Garg, HOD-ME., Delhi Technological University, Delhi
- (6) Prof. Raj Senani, Professor Emeritus & Former Director, NSIT now, Netaji Subhash University of Technology, Dwarka, Sector-3, New Delhi-110078.

- (7) Prof. Anita Rastogi, Professor, JMI University, Maulana Mohammad Ali Jauhar Marg, Ghaffar Manzil Colony, Jamia Nagar, Okhla, New Delhi, 110025.
- (8) Prof. Kanupriya Sachdeva, Professor, MNIT, , Jawahar Lal Nehru Marg, Jhalana Gram, Malviya Nagar, Jaipur, Rajasthan 302017.
- (9) Prof. Devender Kumar, Professor, Delhi Technological University, Bawana Rd, Delhi Technological University, Shahbad Daulatpur Village, Rohini, Delhi, 110042
- (10) Prof. M.L. Singla, Professor, Faculty of Management Studies, Delhi University
- (11) Prof. Vikram Goel, Professor, Comp. Sci. & Engg, IIIT-Delhi
- (12) Prof. Sangita Kansal, Professor, Department of Applied Mathematics, DTU
- (13) Prof. Sangita Banga, Dean Academics
- (14) Prof. Pradeep Kumar Varshney, Dean, Research & Applied Sciences
- (15) Prof. Parul Jhajharia, Dean, Management and Humanities
- (16) Prof. Shruti Vashisht, Dean Student Welfare & HoD, ECE.
- (17) Dr. Babita Parashar, Dean Education
- (18) Dr. Versha Vahini, Associate Dean & HoD, Law
- (19) Dr. Geeta Thakur, Head, Academic Staff Leadership Institute (ASLI) Special Invitee
- (20) Ms. Hanu Bhardwaj, HoD, Computer Science & Engineering
- (21) Dr. Deepa Arora, HoD, Mathematics
- (22) Dr. Sujata Nayak, HoD, Mechanical Engg.
- (23) Dr. Rashee Singh, HoD, Education.
- (24) Dr. SK Shukla, HOD, Chemistry
- (25) Dr. Jai Praksh, HOD, Physics
- (26) Dr. Pragati Chauhan, HoD, Management
- (27) Prof. Jyoti Pruthi, Professor, CSE
- (28) Dr. Hardeo Thakur, Assoc. Professor, CSE
- (29) Dr. S.K. Bose, Assoc. Professor, Law
- (30) Dr. Subodh Saluja, Assoc Prof, Management
- (31) Dr. Megha Mittal, Assoc Prof., Chemistry
- (32) Dr. Charu Pathak, Assoc. Prof., ECE
- (33) Shri. Joginder Singh, Assoc. Professor, M.E.
- (34) Dr. Savita Sharma, Asst. Professor, Education



DRAFT RULES AND PROCEDURES OF POST-DOCTORAL FELLOWSHIP

The rules and procedures regarding Post Doctoral Fellowship have been categorized in three sections

Section A: (Admission Conditions)

(i) Objective:

The Post Doctoral Fellowship (PDF) is aimed to encourage and facilitate young scholars who have completed their Ph.D. and wish to pursue a regular career in teaching and research. They should have a high potential and promise for conducting full time research on specific themes and issues. Such researchers are expected to conduct research in frontier areas of science, engineering, management, humanities, social sciences and law. Fellows shall work under a mentor, and it is hoped that this experience will provide them a platform to develop as an independent researcher.

(ii) Eligibility:

- (a) The applicant must have obtained Ph.D. degree from a recognized University. Those who have submitted their PhD thesis and are awaiting award of the degree are also eligible to apply **but will be registered only when Degree has been awarded.**
- (b) The applicant should have at-least three publications in high-quality Journals (listed in the Web of Science/SCOPUS/Hein Database/Indian Citation Index/ABDC/EBSCO/CARE/Art & Architecture Databases or similar international resource) and is cited widely by research community.
- (c) There is no upper age limit for candidates to apply.
- (d) The candidates, who have completed their earlier postdoctoral fellowship assignment, are also eligible to apply.
- (e) Aspirants of Postdoctoral Fellowship can submit their proposal only twice/once in a calendar year.

(iii) Selection & Mode of Application:

- (a) Applications will be invited around the year and processed by the University.
- (b) The application form along with a research proposal should highlight the objectives of the research work to be undertaken in the university and can be submitted online.
- (c) Details including Project Title, Project summary, Keywords, Objectives of the proposal, expected output and outcome of the proposal should be provided at the time of submission of the application.
- (d) Work Methodology and Research plan should also be submitted in PDF format (not more than three to four Pages) along with the project details.
- (e) **Candidate will be required to identify the mentor with whom he/she is interested in working in the University. In case another mentor is required to be associated from within or outside the university the**



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same shall be mentioned specifically. The candidate can also be jointly mentored by having one of the mentors from outside the University.

- (f) Based on the recommendations of the Expert Committee constituted by the University, for evaluation of the proposal submitted and presentation made by the candidate the final selection for the award of fellowship shall be made.

(iv) Documents to be submitted by the Postdoctoral fellow:

- (a) Bio-data
- (b) Qualification Certificates.
- (c) Undertaking by the applicant
- (d) Endorsement Certificate from the Mentor if identified.

(v) Nature & Duration of Support:

- (a) The selected Post-Doctoral Fellows (here after referred to as Fellows) will not normally be allowed to work under the mentorship of their Ph.D. guide/co-guide.
- (b) The fellowship is purely a temporary assignment and is valid for a maximum period of 2 years.
- (c) The Fellows shall be entitled to receive the fellowship as per the guidelines as decided by the University from time to time.
- (d) The fellow shall be eligible for an annual contingency grant of Rs.1,00,000/-. (The contingency amount can be utilized with prior approval of VC for the purchase of consumables and non-consumables in the ratio 40:60. non-Consumable items are books /journals/minor equipment whereas Stationary, chemicals, registration of national or international conference, domestic travel, etc. will be considered under consumables).
- (e) On completion of fellowship the books, journals and equipment purchased out of the contingency grant shall become the property of the University.
- (f) There is no provision for providing manpower support under this scheme.
- (g) The candidate may work for his post-doctoral work on a project, which has been awarded to him by any other funding agency.
- (h) University may assign any other work as deemed necessary.

Section B: The procedure regarding the release of Fellowship, Leave Rules and Other Conditions.

(i) Monitoring the progress & Release of the Fellowship:

- (a) The scholar has to join the fellowship within one month of the date of the award letter by submitting all required documents.
- (b) The fellowship will be sanctioned initially for a period of one year, effective from the date of joining Fellowship by the scholar. The renewal of the Fellowship for the subsequent year shall be subject to the receipt of



satisfactory Annual Progress Report and statement of expenditure of the contingency amount.

- (c) The annual fellowship and contingency will be released in two equal installments. The second installment will be released only after receiving a satisfactory Six-Monthly Progress Report in the prescribed format.
- (d) In the second year of fellowship, the first instalment of six-month fellowship along with contingency will be released on receiving a satisfactory Annual Progress Report preferably along with a copy of one published research paper in peer reviewed high-quality Journals (listed in the Web of Science / SCOPUS / Hein Database / Indian Citation Index / ABDC / EBSCO / CARE /Art & Architecture Databases or similar international resource) and expenditure account of the contingency amount. The second installment of six months fellowship along with contingency, will be released on receipt of a satisfactory Progress Report of 18 months in the prescribed format with a copy of published research paper in high quality journal as mentioned above (if not submitted with earlier progress report) along with the expenditure account of the contingency amount.
- (e) The fellowship may be discontinued if research progress is found unsatisfactory or because of any disciplinary action being proposed for any misconduct in the University.
- (f) During the course of the fellowship, the scholars are required to publish at least two research papers showing the university affiliation in peer reviewed high-quality Journals as mentioned above on the theme of the research undertaken.
- (g) The University may assign any other work

(ii) Completion of Fellowship

- (a) If a fellow leaves before the completion of 2 years, he/she will have to apply giving reasons for such action to university for seeking permission from the university.
- (b) Before leaving he/she shall submit detailed progress report of the work done with publications (if any) and the expenditure statement of contingency amount duly forwarded by his/her Mentor.
- (c) If, as a special case, a scholar remains on leave due to maternity/medical/extra ordinary circumstances (not to exceed six months) duly approved by the University the tenure of fellowship will be extended by that period. During such period no fellowship shall be given to the Fellow as the total amount of fellowship will not exceed 24 months.
- (d) On completion of the fellowship, the scholar should submit the following:
 - A book-length final report in a publishable form along-with a Summary of the report (3000-4000 words) and published research papers.
 - These documents should be submitted in hard copy (two copies of final report and five copies each of the Summary and research articles) and a soft copy.



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- A certificate of settlement of accounts giving details of expenditure of the contingency grant and clearance from the library of the University.
- (e) Fellows are required to get their final report checked on their own for similarity index and attach a report of the same at the time of submission. The similarity index of the report should not go beyond 10%.
- (f) A maximum of three months period can be granted for submission of the final report after completion of the fellowship.
- (g) University reserves the right to terminate the Fellowship at any stage if it is convinced that
- appropriate progress is not being made or
 - the grant has not been utilized properly or
 - involved in a case of indiscipline.

(iii) Leave:

- (a) The Postdoctoral Fellow shall be entitled to a maximum of 12 days leave including casual leave for any leave other in a year.
- (b) Any absence from work for attending duly approved Seminars or Conferences, Field work etc. will be treated as 'on duty' provided such absence does not exceed 15 days in a year.
- (c) Unauthorized absence from work will be deemed to be non-seriousness/misconduct/indiscipline.
- (d) The Fellow shall not be entitled for any Vacation leave.

(iv) Conditions

- (a) The post-doctoral research work shall normally not be carried out under the Ph.D. supervisor.
- (b) The duration of full time regular fellowship shall be strictly for two years. In no case the fellowship beyond two years will be considered. However, extension for submission of final report may be granted on justified grounds without any additional financial commitment of the University.
- (c) The University reserves all rights to publish the fellowship report funded by it, provided the work is recommended for publication by DRC of the department where Fellow is carrying his/her research. The Fellow can get it published themselves only after seeking permission from the University, clearly showing the MRU affiliation.
- (d) The Fellow as part of his/her research fellowship shall be required to involve in teaching learning responsibility as may be assigned by the HoD in consultation with the mentor or a duration of not exceeding 6 Hours per week with a view to prepare the Fellow for teaching cum research career. Such assignment shall not include any departmental extra-curricular activities.
- (e) Defaulters of any previous fellowship/project/grant will not be eligible for consideration until the applicant obtains the clearance from the University.



- (f) While accepting any fellowship from MRU, a fellow should not accept any other fellowship or research project or regular financial benefit/assignment from any other institution/university.
- (g) The research proposal/final report of the Fellow cannot be submitted for the award of any **University degree/diploma** or funding by any other institution. The University however, will have no objection if the scholar utilizes the research data for the purpose of further funding.
- (h) The final report submitted by the scholar shall be evaluated by the University for being considered satisfactory.
- (i) Books/ periodicals/ equipment purchased by the scholar out of the contingency grant should be deposited with the University and a certificate to this effect may be submitted along with the final report.
- (j) The final authority related to the interpretation of the guidelines or any issue left is vested with the University

Section C: General Guidelines for the purpose of University/Faculty

(i) Who can be a Mentor?

- (a) Mentor must hold a regular academic / research position in any of the department of the university.
- (b) A mentor must have successfully guided at **least three PhD's** and shall not have more than two PDF fellows at any given time.

(ii) Eligibility of Department to take Post-Doctoral Fellow

The Department to be eligible to have Post-Doctoral Fellow/s must fulfil the following pre-requisites:

- (a) Must be offering Ph.D. Programme.
- (b) Must have at least one Professor and two Associate Professors.
- (c) Must have a Departmental Research Committee approved by the University.

For Manav Rachna University
Registrar



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Feedback Analysis of Stakeholders and Action Taken Report

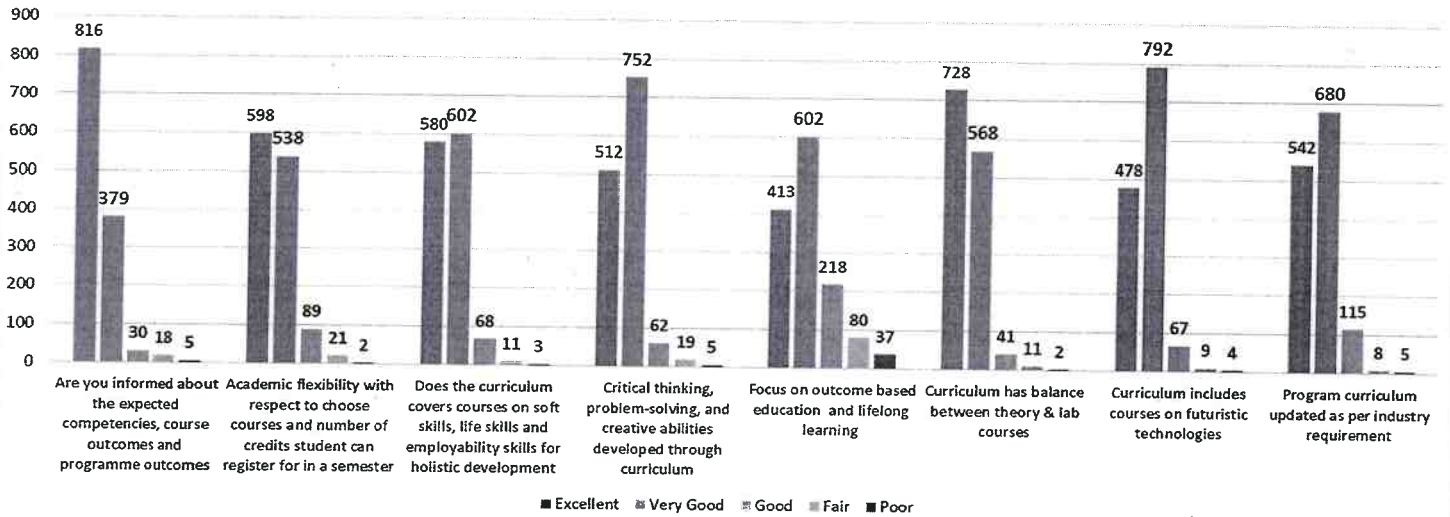
Monitoring, reviewing, and improving the overall quality of the teaching and learning process at MRU are the goals of the feedback. In order to promote and enhance the academic system at Manav Rachna University, feedback from many stakeholders, including students, faculty members, alumni, and employers, is conducted on curriculum design and development. Following submission, the comments received from the various stakeholders are compiled and evaluated in order to take the proper action on a regular basis for curriculum restructuring, syllabus modifications, and quality improvement. To maintain transparency, the institutional website hosts the entire feedback report. A dedicated Feedback Committee oversees the entire feedback procedure.

A. Student

Effective learning and enriching the student's learning experiences both depend on the student's input. In the AY 2020–21, student feedback was conducted regarding a variety of curriculum elements, including updating or adapting the program's curriculum to industry requirements, striking a balance between theory and lab components, providing academic flexibility in terms of course selection, and emphasizing skill-based and multidisciplinary courses for the students' overall development. Out of the 1248 responses, 92% of students gave highly positive responses about the curriculum they are learning. Below are the graphs showing the responses:



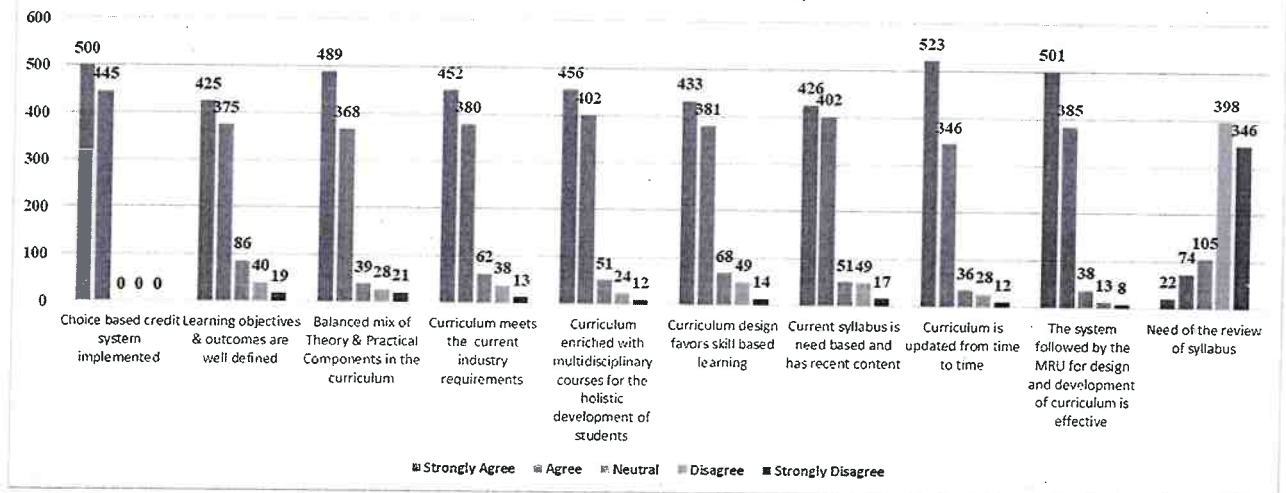
STUDENT FEEDBACK (AY 2020-21)



B. Faculty

The goal of the faculty feedback on curriculum is to review and update the curriculum to better meet the demands of students' employability, higher education, or entrepreneurship. Faculty feedback was received for 945 courses in the AY 2020–21 on a variety of curriculum-related topics, including the effective implementation of CBCS, the balance between theoretical and practical curriculum components, the suitability of the curriculum to meet industry demands, the inclusion of skill-based and multidisciplinary courses, and regular revision requirements. 90% of respondents said they highly agreed or agreed with how the university develops its curricula. Some of the faculty members provided their suggestions for the same which were duly incorporated and approved. Below are thorough statistics graphs showing the responses:

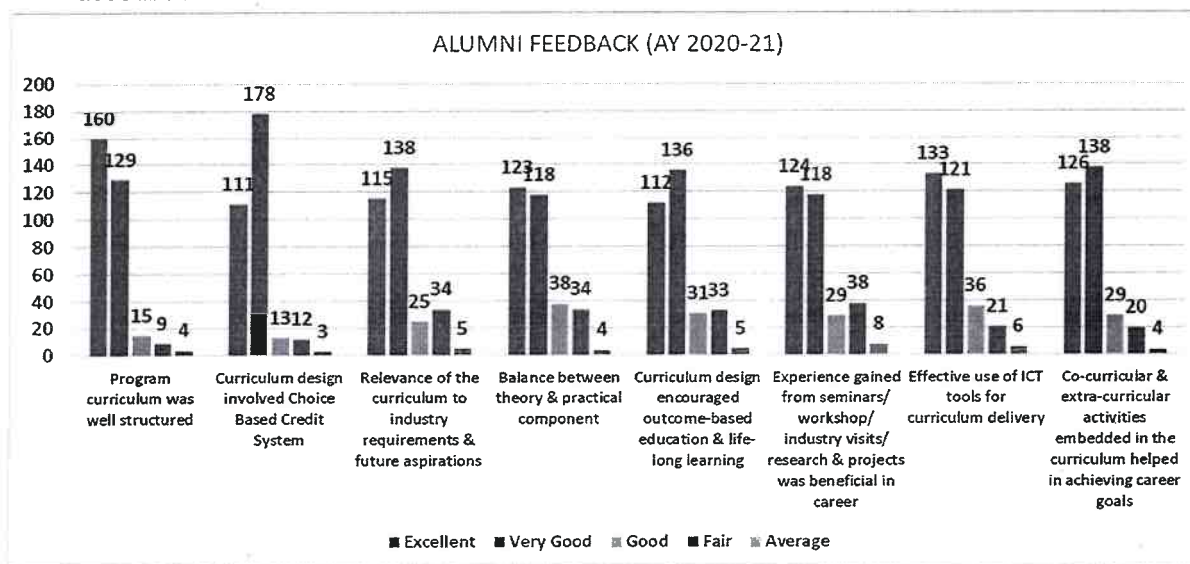
FACULTY FEEDBACK (AY 2020-21)



C. Alumni



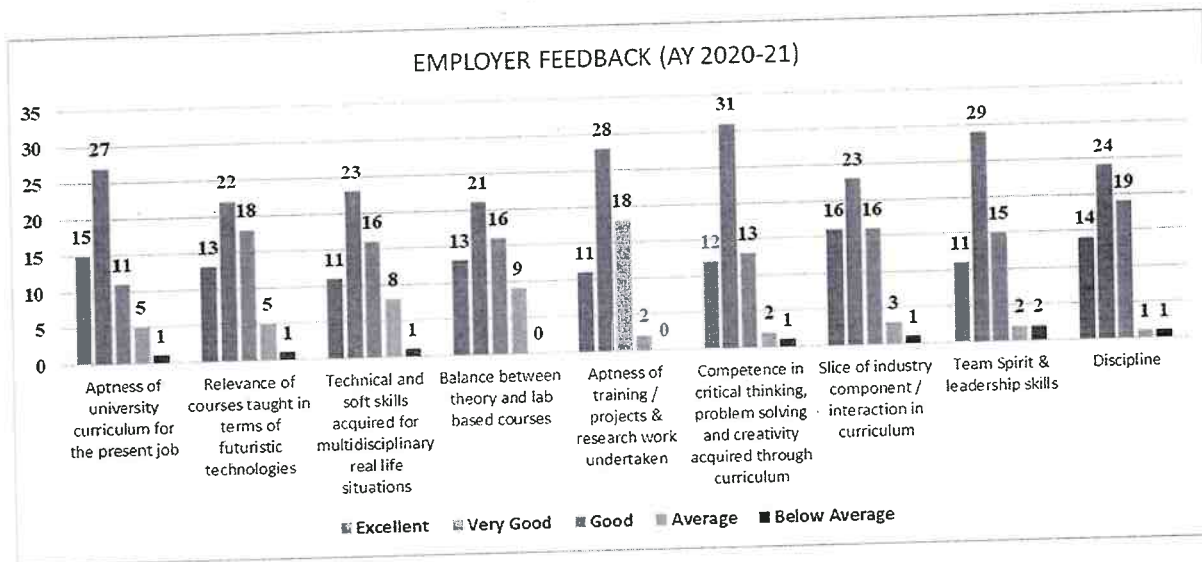
Alumni input is crucial for enhancing the academic climate in higher education. The opinions of former students are useful in determining how well the curriculum aligns with the needs and trends of the market. It evaluates alumni opinions and satisfaction with the learning environment. Feedback on various aspects of the curriculum, including its relevance to industry requirements and future aspirations, balance between theory and practice, effective use of ICT, curriculum design that promotes OBE and lifelong learning, and opportunities for extracurricular and co-curricular activities, were collected in the AY 2020–21. 91% of the 317 alumni respondents advocated the effectiveness of the academic curriculum. The replies were carefully taken into account and included in the curriculum.



D. Employer

The Employer feedback evaluates the applicability of the concepts, tools, activities, training, case studies presented in the curriculum for employability skills among graduates. In the AY 2020-21, employer feedback on the parameters like aptness of university curriculum with respect to job market, relevance of courses in terms of futuristic technologies, balance between theory & practical, competence in critical thinking, problem solving and creativity along with life skills like Team spirit, discipline was taken. Responses from 59 employers were received and 92% were satisfied with the performance and some gave suggestions for further improvement.





Action Taken Report

A. Student

S. No.	Feedback	Suggestions/Action Taken Report
1.	The course content must be focused on the future technologies	The revisions in courses are being done in the core and elective subjects as per the Industry needs.
2.	It is necessary to include more skill-related training.	Workshop based courses are introduced in the curriculum.
3.	Review Core, Elective, and Skills-Related Course Introduction	Revisions in the curriculum carried out in the departments
4.	Courses based on skills	MOOC courses like Reinforcement Learning, Deep Learning, Computer Vision, Patent Law for Engineers and Lawyers including others (SWAYAM-NPTEL) have been proposed as electives in various semesters to enrich the program structure



5.	More emphasis on interactive teaching learning required	Implementation of Pedagogical techniques like active learning, flipped classrooms, presentations is emphasized
6.	Awareness must be provided regarding job opportunities	Career counseling sessions by Industry experts including Alumni from various domains are organized.

B. Faculty

Sr. No.	Feedback	Recommendation/Action Taken Report
1.	Value-added courses for future preparedness	Value added course on <i>Linking Law Education to Legal Profession and Careers</i>, Technical Seminars, were introduced
2.	More research related activities	Focus on Collaboration with the Industry, students projects
3.	Addition of more relevant courses as per the current needs and program revision is required	<p>The course curriculum of the programs was revised and certification courses like Data Science including modules on Python programming, Artificial intelligence were introduced</p> <p>Courses like Digital Marketing, Entrepreneurial Finance for Engineers, Advanced Algorithms, Business Intelligence, Cloud Computing offered to the students.</p> <p>Business Analytics specialization in the BBA program was proposed.</p>



4	Interdisciplinary subjects can be offered to enhance employability & skill development.	Courses like 3D printing, 3D software, Data Structures incorporated in the curriculum for Engineering programs.
5	More industrial visits should be incorporated	Visit to Industrial Expo, DAIKIN Company, NPL organized
6	List of experiments may be revised	The list of experiments of courses like Computer Aided Drafting, Fluid Mechanics & Machines, Kinematics & Theory of Machines for B.Tech ME revised

C. Alumni

S. No.	Feedback	Suggestions/Action Taken Report
1.	Frequent interaction to be organized with the alumni	More Alumni lectures to be planned
2.	Introduction of software based subjects to BBA students	Courses like Advance excel, Designing, Analysis tool introduced to BBA program.
3.	New Skill based courses should be part of the curriculum	Courses like 3D software, 3D printing, Green Computing, Electronic design workshop incorporated in the program structure.
4.	More focus on practical exposure	Workshop based courses introduced from first year onwards.
5.	Technical events like Conference, Short term training programs should be organized to give exposure about the work related to research and innovation in the industry	International conference and Business Mela were proposed
6.	Modern techniques and software used in the industry should be taught to the students.	MoU's with the Industry planned to give the exposure to the students regarding modern technical tools used in the Industry.



D. Employer

S. No.	Feedback	Suggestions/Action Taken Report
1	More industry relevant projects and trainings	To cater to this, Students were associated with Industry mentors from Academic partners like Xebia, Altair for the live projects under their guidance.
2	Focus on Coding and Problem-Solving Skills	More exposure through workshops and training programs to be provided.
3	For Front End Developer Role, students should work on the basic Front End Technologies, i.e., HTML, CSS, and JavaScript.	These technologies are part of their curriculum. More exposure to these technologies is given by introducing lab exercises in form of the mini-projects.
4	More focus on latest technology training and certification programs	Certification and value added courses were introduced to bridge the industry academia gap

