Manav Rachna University

(Formerly Manav Rachna College of Engineering)

Faridabad

MINUTES

OF THIRTEENTH MEETING

OF

ACADEMIC COUNCIL

Dated: 21.04.2020

MINUTES OF THIRTEENTH MEETING OF THE ACADEMIC COUNCIL OF MANAV RACHNA UNIVERSITY HELD ONLINE THROUGH ZOOM APPLICATION ON 21.04.2020 AT 11:30 AM.

A meeting of the Academic Council of Manav Rachna University was held on Tuesday, Dated 21.04.2020 at 11:30 AM to consider various academic matters.

The following were present:

1) Prof. (Dr.) I.K. Bhat, Vice Chancellor / Chairman.
2) Prof. (Dr.) S.K. Garg, Pro VC, DTU Delhi
3) Prof. (Dr.) Devender Kumar, Professor, D T U, Delhi.
4) Prof. (Dr) R.K. Singh, Professor, DSE, Delhi
5) Prof. (Dr) Raj Senani, Professor Emeritus & Former Director, NSIT
6) Prof. Pilli Emmanuel Shubhakar, Associate Professor, MNIT, Jaipur
7) Prof. Kanupriya Sachdeva, Professor, MNIT, Jaipur
8) Prof. (Dr.) Sangeeta Banga, Dean,Academics
9) Prof (Dr.) Pradeep Kumar Varshney, Dean, Research
10) Prof. (Dr.) Parul Jhajharia, Dean, Management & Commerce
11) Prof. (Dr.) Shruti Vashisht, Dean, Students Welfare & HoD, ECE.
12) Dr. Babita Parashar, Dean, Education
13) Ms. Hanu Bhardwaj, HoD, Computer Science & Engineering
14) Prof. (Dr.) Sujata Nayak, HoD, Mechanical Engg.
15) Dr. Jai Prakash, HOD, Physics
16) Dr. Rashee Singh, HoD, Education.
17) Dr. Deepa Arora, HoD, Mathematics
18) Dr. S.K. Shukla, HOD, Chemistry ,
19) Prof. (Dr.) A. K Gupta, Professor, Chemistry
20) Prof. (Dr). Sushmita Ray, Professor, CSE
21) Prof. (Dr.) D.K. Sharma, Professor, Physics
22) Ms. Meena Kapahi, Assoc. Professor, Chemistry
23) Dr. Jyoti Pruthi, Assoc. Professor, CSE.
24) Dr. K.Singh, Registrar/Member Secretary

The following members could not attend the meeting due to their other professional engagements. They were granted leave of absence by the Chair:

- Shri Pradeep Kumar, Head-Channel Sales, Altair Engineering,
- Prof.(Dr.) G.S. Bajpayee, Professor & Registrar, National Law University, Delhi,
- Dr. S.K. Goel, Executive Director, Star wires (India) Ltd. Faridabad.,
- Shri Ajay Kabra, Sr. Director - Agile Transformation, Xebia India,
- Prof. (Dr.) Anita Rastogi, Professor, JMI, New Delhi.
- Prof. (Dr.) Versha Vahini, HoD, Law

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.

13.1 Opening Remarks by the Chairman

Chairman welcomed all the members' especially external members for taking out time to attend the meeting and hoped that their presence would help in deliberating on some of the issues which the university finds important to report to the academic council and seek their advice on those issues. He apprised that during the current semester (Jan-June) classes were started face to face but over a period of time, the spread of Corona pandemic created a different situation; it posed certain challenges before the University in carrying out academics in normal mode. MRU converted this situation as an opportunity to conduct academics in online mode and thus, online education has come much closure than what we had expected earlier.

VC informed that the University has been trying to do some work online using its ERP (learning management system) but very few faculty members were really using it effectively. He had been pressing every faculty member to go online, develop some material and conduct few classes online, but nothing much happened in this regard. However he felt that what university could not do for quite some time, it has achieved it in one month time.

He further informed the members that before the lock down, MRU started educating the faculty members about the use of online education, when university decided to suspend its face to face classes on 13th March, 2020. At the

stage when people were talking of social distancing, university faculty started practising the online education for its students. Chairman further stated that faculty members were initially advised to use the platform with which they are comfortable. Some of them like ZOOM, Skype, Google class room, Microsoft Team, Black board and Whats app etc. were used by the faculty members for online lecture. Subsequently faculty got training on use of Microsoft-Team, which all the faculty is using now. He felt once lockdown is over, this would definitely become an additional method of teaching. In fact, the Virtual class room teaching has totally changed the whole ecosystem in an un-imaginable way making learning more simple, seamless and more effective.

He congratulated the faculty members for having an excellent job done. The students were provided texts, videos and audios; virtual interaction were held and a lots of reference material were given to them. It has improved the quality of education which is being imparted. The attendance which was earlier much lower has gone above 95%. It shows that the most of the students are interested in it and are using it very effectively because younger generation is more tech savvy.

He feels happy to say that more than 5000 class sessions have been conducted by MRU faculty during this period and this has helped the students to touch the curriculum. It has shifted the conventional class room into a flip class room methodology; more problem solving and question answering sessions have been there, which shows that students are taking the responsibility of learning which is very important.

Now, MRU is in second phase of teaching- learning. First phase was an experimental phase when everyone was talking about how to make use of the online process. We have now got feedback from the students, faculty and now analysing them. The departments have been trying to design the courses based on online teaching learning process and now, more faculty members are in the process of developing e- contents. Two faculties from education dept. have been able to develop e-contents which is now available on MOOKIT of IIT Kanpur platform and can be used for this online systems. During this period, Industry has also been involved in delivering webinars and projects. Over 10 projects have been received for Mech. Eng., ECE and CSE. Lots of webinars,

seminars and guest lectures have been completed during this period of lockdown. This innovative support helped the students and faculty to understand their role as far as online education is concerned.

He requested that external expert members to contribute in this task and share their vast experience with the students and faculty of MRU. He urged them that he would feel obliged if they could take out some time and help us in making the system of online more effective and a better system.

Since the university decided to close for students on 13th March, it has conducted second mid semester examination (T2) as per schedule in the academic calendar. The test was conducted through online mode and it was learning. Some faculty members are already making use of online tools. As a university, it is now planning to purchase some assessments tools which will standardise the whole university and help it in assessing various activities which are being carried out by the academic departments.

Chairman further added that he finds it very challenging and exciting time for every one of us and all of us are contributing in this particular direction. In MRU, the academic delivery would be completed by 8th of May, 2020 and examinations for all semesters will be over by 15th May, 2020.

Since the students can't go for internship in current situation, neither they can go to the industry, nor avail vacation during the lock down period, it was felt appropriate to engage them during this period , the University chose to start the new semester (odd) from 21st May. It would help us in finishing odd semester by mid of September and then, students can go to the industry for internship for a longer period. The students can have option to do internship online mode or work on RD projects which the faculty are managing at their end. It would be good for the students to work on some projects for longer duration and gain lot of experience.

Thus, this Covid-19 lock down period has helped us in reorganising our-self, in understanding what is an online delivery and also helped us to understand as to make assessment. The university has decided that forthcoming End Sem. examination, which is on 8th May, will be conducted online.

Chairman further stated that a lot of other activities have been organised during the period of last four and half months.

a. Manav Rachna Centre for Peace and Sustainability (MRCPS)- a center of excellence at Manav Rachna University organised 1st Advisory Board meeting conducted on February 29, 2020 under the Chairmanship of Padma Vibhushan Dr. Karan Singh, for holistic empowerment of youth for Peaceful Bharat.

b. On February 25, 2020, Department of Mathematics in collaboration with Manav Rachna Centre for Peace and Sustainability has organised a session on "Inner Peace through Inner Technology" by IT wing of Rajyoga and Research Foundation.

c. Manav Rachna University has adopted five villages Anangpur, Ankhir, Mewla, Fathepur Chandela and Pali under Unnat Bharat Abhiyan (UBA).110 students and 25 faculty from different faculties of Manav Rachna University visited the villages before lockdown carried out donation drive and a survey in all the villages to find out the issues related to their lifestyle and sanitation requirements.

d. Manav Rachna Peace and Sustainability Club organized Power to Youth, a holistic welness programme for students and faculty. Mr. Sandeep Sharma, Guest speaker conducted session on soft skills, holistic wellness and personality development.

e. Many faculty development programs were conducted by Centre of Advance Learning using e learning platform. Happy to mention that our Dean Academics and the Director CAL conducted these programs and educated faculty members how to use several other platforms and showed them how we can interact with the students more effectively, how we can assess them and how we can do better job during this period.

f. Students also participated in many activities during this period and before and many of them brought laurels to the University.

g. Many faculty members also participated in various activities; Dean Academics would talk about it. Certificate of appreciation have been given to many faculty members

h. Two faculty members Dr. Savita Sharma & Dr. Sachita developed the e-content on Mindfulness & Financial Management. These courses are offered on Mookit platform of IIT Kanpur which is available to the students across the globe. It shows that the quality of e -contents developed is of very good quality.

Vice Chancellor said that he feels happy to inform that faculty has been doing good job, students have been learning well, university has been able to stop wastage of time and used different methodology during the process of online education. The university used technology extensively whether it was MOOCs, LMS and other Medias which were used and education was really outcome based education. We could measure the learning outcomes. The career skills were improved. Values, attitude and Life competencies were enhanced which would lead our students to leadership role in future.

Some of the methods which we have adopted, need a lot of training also; project based approach of learning will become important in due course of time, we shall be training our faculty on it. The faculty members have been trained on research based approach learning, collaborative learning, cooperative learning and these methods and technics would definitely help in providing better education to our students and make them useful person in life. These skills that the faculty members have also learnt during this period, they will be able to further hone their skills/fine tune so that maximum benefit could be derived by integrating them in class rooms when university open after lockdown for face to face interaction.

Chairman concluded his remarks with the above facts and requested the Dean, Academics and Dean, Research and Innovation to inform the esteemed members of the council about the various academic, research and innovation activities which has taken place during last four months and also the projects which has

been received.

Dean, Academics thanked the Chairman for giving a comprehensive view of the online education the university has been imparting; the challenges it has been facing and how it has overcome these challenges while doing so. She stated that many other activities were conducted during the past four and half month's period.

— Manav Rachna organised birth anniversary celebration online through Zoom platform to pay homage to founder visionary, Dr. O.P. Bhalla on his 73rd Birth Anniversary on April 04, 2020.

— Manav Rachna University is rated AAA for Engineering among the Universities of Haryana as per career 360, Best Engineering College Survey 2019.

— A Memorandum of Understanding (MoU) was signed on January 14, between Manav Rachna University, Truechip Solutions Pvt. Ltd. and Future Tech Wizards LLP.

— A Memorandum of Understanding was also signed between Manav Rachna University (MRU) and Quick Heal Technologies to offer B.Tech. Computer Science & Engineering with specialization in Cyber Security and Threat Intelligence program which will be effective from the academic session 2020.

— Eight faculty members joined MRU during the period and 2 faculty members and 1 staff resigned due to their personal reasons.

— Two Students team Projects qualified in North Zone Anveshan held at Amity University Manesar and selected for finals of Smart India Hakathon; one under hardware category and another under software category.

— Under the Centre for Academic Leadership, various FDPs are being conducted. One initiative that the university has taken is 24 hrs FDPs are
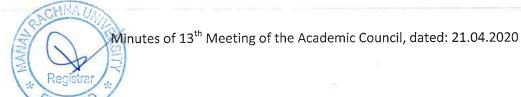
being conducted for faculty. The faculties are getting training on various assessment tools to enhance online learning.

— Placement process for 2020 Batch is still in progress.**108 students** out of 131 total eligible students **of Computer science Engineering** have got placed. The highest Salary Package is Rs.12.00 LPA offered by EXTRAMARKS and Average Salary Package is Rs.3.5 LPA. **14 students** out of 18 eligible students **of Electronics and communication Engineering** have been placed up till now. Highest Salary Package is 10.00 LPA in LIDO Learning and Average Salary Package is Rs. 3.5 LPA. **15 Students** out of 28 eligible students **of Mechanical Engineering** have also been placed. Their average Salary Package is Rs. 3 LPA.

Dean, Research, thereafter, apprised that during the lockdown period, our students are working day and night on research and innovation related projects.

- One project has been developed jointly by the students of MRU and MRIIRS. The name of the project is E Ventilator. A team of researchers from both the Universities MRU and MRIIRS have designed a prototype of a low-cost portable emergency ventilator remotely to provide temporary oxygen supply for patients with emergency needs. All the safety and technical parameters of the ventilator have been set as per International benchmarks. The ventilator is highly cost-effective (approximately five thousand rupees).

- With the permission of the District Magistrate, Faridabad, the team worked remotely at Manav Rachna Innovation and Incubation Centre, and within 48 hours came with the design of the prototype. The clinical testing of the ventilator is underway.

- The students are working on two more projects are in collaboration with Sahai Lab which are related to COVID. One is ML/AI based Virus detection using X-Ray Imaging and other is Data Analytics prediction for travel restriction in areas affected by COVID-19.

- In addition to innovation, the faculty members of the university are also working for publications and research projects. The faculty has published 20 research papers in Scopus, Web of Science and UGC research journals. The

H index of the university when the last academic council meeting was held was 18, which has now increased to 21.

- During the last four months, the faculty members have also submitted 13 research projects to AICTE and DST under various schemes. The proposed cost of the projects is Rs. 2.63 Cr. We hope that some of the projects shall be sanctioned by the Govt. of India.

- The university has also submitted one project to Niti Aayog in the name of Atal Community Innovation Centre (ACIC). The cost of the project is 2.5 Cr. Its result is awaited as Haryana is also going to have ACIC.

- Besides, faculties are also working on consultancy. Three consultancy projects are under taken; of which, one namely 'Panic Button for Sarvodaya Hospital, Faridabad" is already completed while other two namely "Delish Homemade and Ultimetro are going on.

- Youth Activities for Superior Humanity **–YASH-2020** was organized by the University in collaboration with Foundation of Glocal Science Initiatives (FGSI) in which more than 80 participants came from Russia, Indonesia, Taiwan, and Nepal in addition to PAN India. Valedictory function was fully sponsored by KidZania Noida. Dr. S. K. Varshney, Scientist G, DST and Dr. Shyam Bang, Director, Jubilant Life Sciences Pvt. Ltd. Were present in during the Inaugural and Valedictory ceremony respectively and other Jury members were invited from Delhi University, JNU and DST.

Other On-going Activities are as follows:

i. Joint Training Proposal worth Rs. 15 lacs of NCSTC under finalization for submission by Dr. Pradeep K. Varshney and Er. Anuj Sinha, FGSI Chairman.
ii. Exploring the possibility to submit one proposal to DST under Covid-19 schemes in collaboration with Reinstate Nano-ventures Pvt. Ltd. on "Antiviral Coatings on Public Surfaces to reduce Pandemic of Covid-19".
iii. Students Team are participating in Covid-19 Competitions –Samadhan and Srijan Sanchar
iv. Two patent applications of Chemistry department are sent to Mr. Nitesh Kumar, IPR Cell for prior art search. Action would be initiated after getting the reports

v.   Business Idea Competition planned in view of Covid-19 economic solutions

vi. Exploring to organize One day Workshop in collaboration with ICT Academy.

The Chairman then requested the Registrar to take up the agenda items. The Registrar thanked to the Chairman, Dean Academics and Dean Research for portraying the various activities undertaken by the university within short span of four and half months and took up the agenda one by one for deliberations.

13.2 Confirmation of the Minutes of the Twelfth Meeting of the Academic Council held on 02.12.2019

Academic Council was presented the minutes of the last meeting and informed that no comments have been received from any of the members. The Council was requested to confirm the same.

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

13.3 Matter for information

Academic council was apprised of the various activities undertaken by the university during the last four and half months as under:

(i)   Postponement of MRNAT-2020 for admissions in UG/PG programs for the Academic Session 2020-21.

The council was apprised that due to ongoig pandemic COVID-19, MRNAT-20 which was proposed to be held on 25th and 26th April, 2020 was postponed. Now, it is decided to be held Online on 2nd and 3rd May, 2020. In order to save time, it is also decided to conduct GD/PI from 22nd April onwards.

(ii) Submission of application to AICTE for extension of approval for the Engineering Programs offered under FoE for the year 2020-21.

Hon'ble members were informed that application submitted to AICTE for Extension of Approval for the Engineering programs are under consideration. Approval may likely to be obtained by May, 2020.

(iii) Approval of RCI for starting B.Ed. Special Education (LD) for Two Academic Years i.e. for 2020-21 & 2021-22.

The council was apprised that Rehabilitation Council of India (RCI) which is regulatory Body for granting permission to start B.Ed. Special Education(LD) program has acceded to our request and allowed admission for two academic year from 2020-21 and 2021-22 revising its earlier approval from 2019-20 to 2020-21.

(iv) Implementation of measures / guidelines suggested / recommended by the Regulatory bodies / Central / State Govt. to contain the challenges posed by the COVID-19.

Hon'ble members were informed of the various directives received from the Govt./Regulatory bodies and of the action taken by the university to spread awareness and comply with the measures for containing the spread of Epidemic.

(v) Activities carried out under Unnat Bharat Abhiyan

It was informed to the council that 110 students and 28 faculty members of the university conducted survey in the five adopted villages for studying their life style and sanitation related issues.

(vi) Signing of MOUs with other organizations

Academic Council was also informed that the MRU has signed three MoUs with other organizations and were explained about its necessity and as to how it would be helpful in conducting the UG program and in R&D etc.

(vii) Major Events organized

A detail in this regard was submitted for information of the members.

(viii) Students and Faculty achievements

The Council was also apprised that many students of the University have participated in national /internal events and brought laurels for the university. Similarly, many faculty members also received honours and award, authored books during the period. A detail of all such activities was presented for information of the members.

It was requested that above information be taken on record of the Council.

(ix)   Donation of one day salary for COVID-2019 in CM Relief Fund and providing of food to needy persons during the ongoing crisis

The Manav Rachna faculty and staff donated their one day salary in Chief Minster Relief Fund as support to the Govt. in tackling the issues related with CORONA pandemic. It also arranged food packets and got it distribted to needy people during this crisis.

Decision: Academic Council took the above information on record.

13.4 Matter for ratification.

(i) Conduct of Test II and Continuation of classes for current semester (Jan-Jun, 20) in online mode during the period of lockdown from 18.03.20 onwards.

Academic Council was informed that after closure of the university due to possible threat of Pandemic COVID-19, immediate concern of the university was the continuity of the teaching learning process so that academic loss of the students could be saved and the closure period could be utilized as productive period. The university without wasting time took a quick decision to switch over to online mode and keep continued all the activities whether it is conduct of examination or evaluation/ delivery of lectures are concerned. Here, it would be pertinent to share that semester test T2 was conducted online successfully for all the courses from 16th to 21st March, 2020.

Prof. Raj Senani, the Hono'ble member desired to know as to how university would be conducting the practical sessions. The Dean Academics clarified that during this period, labs cannot be conducted; virtual labs are being conducted wherever possible. Based on theory papers, students will be promoted to next semester. Hopefully by the end of semester students would be physically present in the campus and the theory part will completed by that time. Then, Departments will involve the students in Lab work, projects and innovation activities followed by end term assessment.

He further desired to know as to how departments have been taking care of final year students' projects? The Dean Academics responded to his query and stated

that in B.Tech. Some of the students are working on the projects; some joined the companies for their internships and some working on these projects online. Evaluation process is spending which will be completed in May and in case, the students face any problem then we will extend the date. She further mentioned that how the students and faculty brought laurels for the University by achieving on different platforms Dean Academics appreciated the faculty for thinking differently and giving meaningful education to the students and carrying meaningful assessment which is reflecting through students.

(ii) Assessments and Evaluation for the current semester (Jan - June, 2020)

It was also submitted that Assessment and evaluation of current semester courses shall be conducted as per timeline already decided. All work of lecture delivery shall be completed by 8th May, followed by T3 wherever applicable. Those faculties who want to have weekly assessment shall submit the grades to Examination section by 10th May, 2020.

The results shall be announced within one week of last examination of current semester so that those courses which are pre-requisite for next semester courses can be conducted as supplementary examination. The supplementary examination of such subjects, if any, shall be conducted before 15th May, 2020 and all the supplementary examinations shall be scheduled before 20th May 2020.

(iii) Internships:

It was felt that due to COVID-19 and the present conditions, no industry will accept students to their campus. In view of this, it was decided that the departments shall postpone sending students to industry and may plan for internship in Oct 2020 (after the odd semester).

The departments may explore the possibility of online internship in collaboration with industry. If department intends to offer internships, they should plan classes accordingly from 15th May, 2020 so that students can work for their internship simultaneously.

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The students may be informed about possible options like: Internshalla, Remote internships offered by Industry/, Online certification/Trainings options which can add value, Courses on Altair University, Projects on some Problem statements, Trainings on Altair Software (in campus), Projects offered by Design-Tech and Altair Engineering etc.

Dean Academics stated that hon'ble Vice Chancellor has already given a comprehensive view of the online processes that MRU has been using for online delivery of the lectures and also with regard to the evaluation process and the internship. The descriptions mentioned here were our initial planning according to which action was taken by the university. Academic Council was requested to ratify the actio taken by the University.

Decision: Academic Council ratified the action taken by the University.

13.5 Action Taken Report on the Decisions taken in the Last Meeting of the Academic Council.

Academic Council was informed of the action taken on the decisions taken by the Council in its last meeting held on 02.12.2019 and requested to take these information on record.

Decision: Academic Council took the action taken on record.

13.6 Commencement of Odd Semester (2020-21) from 21st May, 2020.

Academic Council was informed that the university has apprehension that due to on-going COVID-19 crisis, possibility of opening of the university before July, 20 seems to be remote. Therefore, to keep the students engaged during this period, it would be appropriate to start the new semester immediately after conclusion of the End Semester (2019-20). Keeping this into consideration, it is resolved to start Course registration for the next semester immediately and complete the same in April 2020. ERP Coordinator has been requested to make necessary arrangement for completing the pre-registration process during this time period for the subsequent semester, and this information is displayed on website/ sent to the students by email. It is proposed to start the Odd semester online from 21st May, 2020 and conclude the same by 15th September, 2020. This will provide opportunity to the students to go to the Industry, R&D organisation for a longer duration and gain hand on experience which will help them in honing their

skills and make them employable. The Council was requested to approve the proposal. After deliberation, it was unanimously approved by the Council.

Decision: Academic Council approved the proposal of the University.

13.7 Guidelines for Ethical Research, Lab. Safety, Humans and Animal Research and formation of Institutional Human & Animal Ethics Committee (IHAEC) and Institutional Lab Safety Committee (ILSC) of the Manav Rachna University.

Academic Council was apprised that Manav Rachna University intends to constitute two Committees, namely, **Institutional Human & Animal Ethics Committee (IHAEC)** and **Institutional Lab Safety Committee (ILSC)** a per requirement prescribed for NAAC accreditation. A detailed draft guideline prepared by the Dean Research which comprehends the Govt. direction, need of the committees, their composition, duties and responsibilities of the Committees was presented in the meeting for consideration.

Decision: Academic Council gave few suggestions and asked the Dean Research to incorporate the same in the guidelines and submit the revised proposal to the Members for their final approval. Afterseeking these inputs the Vice Chancellor may approve the same.

13.8 Consideration of Research and Innovation Policy of the University

Academic Council was informed that, in order to promote quality in research and publications, incentive schemes were formulated for faculty members in the name of "Research Incentive Scheme" in year 2014 and "Policy of Research, Innovation and Incubation" in 2018 which are no more relevant in view of change in government policies towards innovations and startups beyond research. A detailed policy document on research and innovation which shall be adopted in MRU has now been received from the Dean Research. This policy provides a broad framework to guide research and integrity of scholarly inquiry at the University level.

The objectives of policy are:-

1) To create an research ambiance and infrastructure

2) To promote research publications in journals of international repute, file patents and transfer technologies to relevant industries.

3) To promote research, innovation and intellectual capital.

4) To ensure integrity, quality and ethics in research

5) To incentivise the generation of publications, IPRs and consultancy

6) To promote research culture among faculty members & students at both UG and PG level in addition to Ph.D.

7) To provide guidance and monitor research activities in thrust areas

8) To promote dissemination of research findings through publications, workshops, presentation etc.

9) To promote & facilitate collaboration with national & international Universities, research labs, corporate etc.

10) To promote interdisciplinary research.

11) To create quality human resources for scientific research

12) To promote any other research activity not covered above

The policy document was presented in the meeting for consideration of the Council. Dean Research was requested to make a brief on the proposal. He apprised that this document illustrates the incentives/recognitions to the faculty member doing good research work, innovations and bringing out good publications in national /international journals of repute recognised by the UGC. He explained the various clauses and the incentive available for different work/publication. He also mentioned that the clause relating to incentive for consultancy is being removed as the provision of consultant share in consultancy work is already there.

Prof. S. K. Garg Hon'ble Member pointed out about the journals and said that in DTU, it has classified the journals in three different category, this be also taken into consideration. Prof. Pilli also stated that some faculty may not be able to publish in Scopus and ASCI, they may also be encouraged as they may slowly come up and publish in Scopus. It should be taken up as standard. He also pointed that paying fee for filing the patent is a matter of concern for faculty, University may also look into it, Dean, Research clarified that the MRU has been

paying full fee for filing the patent. Prof. Sachdeva suggested that for sponsored project category grants, there should be two categories as National/International Projects like cash awards for Research.

Prof. Raj Senani, one of the expert members pointed out that DTU has already framed a policy on it, his university has also framed guidelines based on their model, he would suggest that MRU should once go through it and adopt the similar frame work for incentive, if it could. Prof. S K. Garg Pro VC, DTU who was also present in the meeting was requested to share the policy document of DTU for promotion of Research and innovation which he kindly agreed to provide. With this suggestion, Council concurred with the proposed policy and authorised Vice Chancellor/Chairman of the Academic Council to approve the modified version of policy.

Decision: Academic Council agreed that the proposed policy for promotion of research and Innovation may look into the documents as mentioned in the discussion and seek approval from the Finance Committee as it involves financial issues and then bring it to AC. Individual cases till then may be approved by the Vice Chancellor on case to case basis.

13.9 Non-applicability of the provisions regarding earning credits through MR Life Skill program (MRLSP) for degree requirement in r/o LLM (One/Two) year program and exempting the Students of B.Ed. program batch (2018-20) from the same.

Hon'ble Members were informed that the Manav Rachna Life skills programme was introduced in the University from 2017 with due approval of Academic Council and the Board. It was decided that from the 2018 batch (UG & PG), every transcript would have points scored by the student under MRLSP, during his/her degree programme.

It has now been reported that the students of B.Ed. Programme and LLM Programme were not able to earn the requisite points. Both the Departments i.e. Dept. of Education and the Dept. of Law have now submitted the request with due recommendations of their Board of Studies that the Manav Rachna Life Skills Programme should not be made applicable to LLM Programme at all and the B.Ed. 2018 batch students be exempted from earning scores under MRLSP for the purpose of Degree Requirement.

Dean Academics apprised the esteemed members that under this, program students have to earn 25 points under curricular, co-curricular and Research Activities. LLM program is a one year is a professional program and time duration is only one year. HoD, Education apprised with the reasons of seeking exemptions for B.Ed. 2018-20 batch. She stated that the students did not get sufficient time to earn the points as there session was started in November. In December due to Examination and Evaluation, students could not get time and now due to Covid-19, not possible for them to do it. That is why, the department need exemption for 2018-20 batch from earning points for degree requirement. Academic Council was requested to consider the proposal and approve the same.

Decision: Academic Council concurred with the proposal regarding non applicability of the provisions of MRLSP to LLM (One Yr/ Two Yr) and exempting B.Ed. Batch (2018-20) from scoring the points through the MRLSP for their degree requirements and recommended for placing before the Board for their approval.

13.10 Approval of the MOOCs offered during the Current Semester (Jan-June,20) and the MOOCs intended to be offered in Odd Semester (July-Dec, 20) along with the proposal for awarding domain certification to the students.

It was submitted for information of the Council that university has been encouraging students to opt for Electives being offered online through NPTEL/SWAYAM platform. 16 such online courses were offered as Elective during the Current Semester (Jan-Jun, 20) with the approval of the competent authority. A list of such courses along with domain specific certification guideline of NPTEL was presented in the meeting for perusal of the Hon'ble members.

Further, MOOCs /NPTEL courses which are proposed to be offered by Academic Departments in the forthcoming session (Odd Sem.) 2010-21 were also presented for consideration of the Council. A student has to clear 6 NPTEL courses(3 core and 3 elective)in a domain in a duration of 3years. The number of core and elective may vary according to the chosen domain. **It is recommended that domain be completed within a period of three years from the date of starting the first course. This domain certification will be reflected as mini-specialization in B. Tech. degree.**

Dean Academics briefed the members on it and clarified them the way these courses are being offered to the students. She also mentioned about NPTEL guidelines for domain certification and its reflection in the degree certificate as mini-specialization. The members deliberated over it and approved the proposal.

Decision: Academic council considered the proposal and approved the same.

13.10 Consideration of the proposal of the Academic Departments with regard to changes adopted in respect of Mode of examination, evaluation, shifting of courses, new courses which were offered in current Semester or would be offered in odd sem. etc.

Academic Council was informed that due to closure of the University owing to on-going crisis from March13, 2020 onwards, the departments were asked to switch over to online mode and adopt the tools whichever they feel convenient and suiting to the faculty for online delivery of the lectures, assignments, quizzes, mode of examination, evaluation etc. Even some of the departments have restructured or modified the number of courses in the process. Further, recruitment of new faculty also being a challenge in the current scenario, the HoDs were given liberty to offer the courses of subsequent semester for which they have faculty and take up the current one in the coming semesters. In view of this, some Depts have made deviations from the normal mode which was being followed while face to face interaction. They have now got the changes approved from their Board of Studies. The department wise proposal for ratification of the changes is as given below:

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

1. **Program Structure and propose new scheme with Credit Limits up to 180 for B. Tech of Electronics and Computer Engineering to provide Specialization /Hons degree**

As per the Guidelines of AICTE 2020, the department can offer Elective Courses in the EMERGING AREAS, viz., VLSI, Embedded Systems, health care management ,Artificial Intelligence (AI), Internet of Things (IoT), Blockchain, Augmented Reality/ Virtual Reality (AR/VR) etc, **Under Graduate Degree Courses in EMERGING AREAS** shall be allowed as specialization from the same Department. The minimum additional Credits for such Courses shall be in the range of 18-20 and the same shall be mentioned in the degree, as

specialization in that area. Similarly, Minor specialization in EMERGING AREAS in Undergraduate Degree Courses may be allowed where a student of another Department shall take the minimum additional Credits in the range of 18-20 and get a degree with minor from another Department.

The Dept. of ECE with the approval of its Board of Studies has proposed to offer two specializations in the areas i.e. VLSI in collaboration with Academic partner True Chip and Health care Management/Biomedical in collaboration with Academic partner Sahai Research lab. It is proposed that the student should be given a choice to take up extra credits only if he/she is able to maintain CGPA of at least 7 in previous semesters. It is recommended that the extra credit basket should be offered only after 3rd or 4th semester.

2. To consider the change proposed in the syllabus of Basic Electrical Engineering, Internet of things and Digital System design and Microcontroller.

➢ **Basic Electrical Engineering:** This subject is offered in 1st semester Electronics and Computer Engineering. The syllabus being vast, changes is proposed in it.

➢ **Internet of things**: This subject is offered in V sem. of Electronics and Computer Engineering with credits as 1-0-2. There was need to increase the number of lectures being a core subject. To cover the course in a systematic way. it is proposed to increase the credits as 2-0-2.

➢ **Digital System design and Microcontroller**: The subject is offered in 5th Sem. Computer Science and Engineering. The syllabus for the same comprehends the portion of Digital Electronics, Digital system design and Microcontroller. It is proposed that the portion of Digital Electronics and Microcontroller be covered, the syllabus be modified and the subject be renamed as Digital Electronics and Microcontroller.

DEPARTMENT OF COMPUTER SCIENCE AND TECHNOLOGY

1. Review of courses (July-Dec 2019 & Jan-June 2020)

The Department with the concurrence of board of Studies has proposed revision in courses as under:

(i). Removal of Research Paper Writing - I & II (Copyright / Patent / Startup / Project Work) from 5 & 6 sem. and addition of Introduction to Research & Innovation I, II,III (Copyright / Patent / Startup / Project Work) in 3rd, 4th and 5th sem.

(ii). Swapping of

— Soft Elective --- Entrepreneurship (5th Semester) *with* Cyber Law / Law Related to IPR (7th Semester) for 2K18 CSE

— Soft Elective --- Entrepreneurship (5th Semester) *with* Cyber Law /Law Related to IPR (6th Semester) for 2K18 DSML & DTE

(iii). Program Structure of Cyber Security & Threat Intelligence Specialization in collaboration with Quick Heal is concurred by the BoS. It is stated that Quick Heal experts have allotted L:T:P for the specialization courses with full flexibility and also that these courses shall be delivered by Quick Heal experts only.

2. Hons Degree for Specialization programs

As per the guidelines of AICTE, students opting for B. Tech. Specialization have to earn 18-20 extra credits in the entire B. Tech. program. The extra credits can be earned through MOOC as **Specialization courses are mandatory in respective Program Structures.**

DEPARTMENT OF MECHANICAL ENGINEERING

1. Hons degree for specialization programs

The department has proposed to offer specialization Hons. **or** Minor Degrees, which will cumulatively require additional 18-20 credits in specified area or

specialized subject in addition to the credits essential for obtaining the B. Tech in Major discipline (i.e 160 credits) which will help in employability opportunities for students. They suggested that the department can offer minor specialization in subjects like Artificial Intelligence, Data Sciences, 3 D Printing and Robotics. It is proposed to increase the credit points from 160 to 180 for B.Tech (Mech.) Specialization Course as per the latest AICTE guidelines **for specialization Hons. degree.**

DEPARTMENT OF LAW

- The Department has proposed the following for consideration

- Relaxation in mandatory attendance requirement for T3/ End-term Examination is recommended

- Syllabus and scheme of evaluation of CHILD AND LAW (LWH404) and MERGERS AND ACQUISITIONS (LWH405) for the Honours courses for the 7th Semester were recommended to be approved.

- It is recommended that the final assessment of Departmental Seminar currently offered in semesters II and IV, may be postponed and may be conducted on the reopening of the University. Departmental Seminar involves two components – written submission and oral presentation. Students are required to make written submission by 30th April, 2020 but the oral presentations are postponed to be conducted when the University reopens for the students.

DEPARTMENT OF EDUCATION

The Department has obtained the concurrence of the BoS for the following and submitted for consideration of the Council:

> B. Ed. Sem. 4 and Integrated B Ed Sem. 8 to be brought forward because of the current situation of COVID 19, schools are shut down and B Ed Sem. 3 and Integrated B Ed Sem. 7 are of 16 weeks internship shall be conducted afterwards.

- One subject in 3rd sem. (Indian History 1757 – 1857 A.D.) to be shifted in the next semester
- Changes in credits of B. Ed. and Integrated B. Ed. and subsequent changes in program structures.

DEPARTMENT OF MATHEMATICS

The Department has obtained the concurrence of the BoS for the following and submitted for consideration of the Council:

1. Approval of Syllabus of Mathematics courses of II year for B.Sc. B.Ed. program Batch 2019 onwards, .

2. Change in name & syllabus of course Calculus, Linear Algebra, Probability & Statistics (MAH201B-T) offered in B.Tech. CSE(DSML) III semester

3. Approval of the elective subject basket offered in B.Sc. (H) Mathematics III semester 2019 batch onwards,.

4. Change in number of credits of Project and restructuring of program structure in M.Sc. Mathematics IV semester.

5. Evaluation guidelines for the courses Scientific Research I, Scientific Research II & Project offered in M.Sc. Mathematics 2019 batch onwards.

DEPARTMENT OF PHYS. AND DEPT. OF CHEMISTRY

The above Depts. have informed that they are also recommending the similar changes as proposed by the Dept. of Mathematics with the concurrence of their BOS.

DEPARTMENT OF MANAGEMENT & COMMERCE

The Department has obtained the concurrence of the BOS for the following and submitted for consideration of the Council:

1. The syllabus of the following courses have been revised in the current Semester keeping in view the Industry Feedback

(a)	Behavioural Finance	(b)	Business Taxation
(c)	Family Business Governance	(d)	Performance and Compensation Management System
(e)	Research Methodology	(f)	Entrepreneurial Finance
(g)	Financing and Business Development of Health Care Mgt.	(h)	Google Suits
(i)	Investment Analysis and Portfolio Management	(j)	Financial Modelling
(k)	Social Entrepreneurship	(l)	Consumer Behaviour
(m)	Financial Derivatives	(n)	CSR, Values & Ethics
(o)	Financial Management	(p)	New Venture Creation
(q)	Management of family owned Business	(r)	Public Health
(s)	Health care Insurance and management	(t)	Management of Medication
(u)	Clinical Services	(v)	Healthcare Systems and Management

2. Business Environment has been introduced in the specialization of 1st semester of BBA as core paper.
3. Marketing Management has been shuffled from 2nd semester to 1st semester.
4. The course Business Statistics has been introduced in the place of Quantitative Techniques of Business in the specialization of 1st semester of BBA .

5. Electives basket has been created to be offered to BBA 5th semester students in order to provide Choice based Credit systems to our students.

- BBA Operations Management -The following domain related subjects have been included in the Program along with other Common subjects.

1st Semester – BBA OM - Principles of Manufacturing
2nd Semester – BBA OM - Fundamentals of logistics

3rd Semester – BBA OM: Total quality management, Warehouse Management, Operations management, Industry project
4th Semester – BBA OM: Supply Chain Management, Project Management Freight Transport Management

5th semester BBA Operations Management:

The following courses/subjects are proposed:

Customer Relationship Management, International Business, Strategic Management, Visual Basic Applied and Professional Development Program V, Logistics, International Supply Chain Management, Purchasing and Inventory Management and Services Operations Management

6th Semester BBA Operations Management:
The following courses/subjects are proposed:
E-commerce, Digital marketing, CSR, Values and Ethics, Business Analytics, Professional Development Program VI, SAP BA, Introduction to Shipping, Multimodal transportation and Transportation and Distribution Management.

Academic council deliberated over the various issues submitted by the depts due to pandemic and unanimously ratified the same.

Decision: Academic Council ratified the action taken by the Academic Departments.

D

The meeting ended with vote of thanks to the Chair.

(Dr. K. Singh)
Registrar

F.NO. MRU / AC (A&M) / Vol. IV / 2018/   **Dated 24.04.2020**

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.(Dr.) S.K. Garg, Pro-V.C., Delhi Technological University, Delhi
5)   Prof.(Dr.) R.K. Singh, Professor, Dept. of Com., Delhi School of Economics, N.D.

5) Prof.(Dr.) R.K. Singh, Professor, Dept. of Com., Delhi School of Economics, N.D.

6) Prof. Raj Senani, Professor Emeritus & Former Director, NSIT now, Netaji Subhash

7) University of Technology, Dwarka, Sector-3, New Delhi-110078.

8) Prof. (Dr.) Anita Rastogi, Professor, JMI University, Maulana Mohammad Ali Jauhar

9) Marg, Ghaffar Manzil Colony, Jamia Nagar, Okhla, New Delhi, 110025.

10) Prof. Pilli Emmanuel Shubhakar, Associate Professor, MNIT, Jawahar Lal Nehru Marg, Jhalana Gram, Malviya Nagar, Jaipur, Rajasthan 302017.

11) Prof. Kanupriya Sachdeva, Professor, MNIT, , Jawahar Lal Nehru Marg, Jhalana Gram, Malviya Nagar, Jaipur, Rajasthan 302017.

12) Prof. Devender Kumar, Professor, Delhi Technological University, Bawana Rd, Delhi

13) Technological University, Shahbad Daulatpur Village, Rohini, Delhi, 110042

14) Prof. G.S. Bajpayee, Professor & Registrar, National Law University, Pocket 1, Sector

15) Dwarka, Dwarka, New Delhi, 110078.

16) Dr. S. K. Goyal ,Executive Director, Star Wire(India) Ltd. & former President, FIA,

17) 21/4 Mathura Road, Ballabhgarh-121004 (Haryana).

18) Shri Ajay Kabra, Sr. Director - Agile Transformation, Xebia India., Capital Cyberspace, 4th Floor, Sector-59, Golf Course Extension Road, Gurugram, Haryana-122005

19) Shri Pradeep Kumar, Head-Channel Sales, Altair Engineering, Suite No. F-10, 1st Floor, Salcon Rasvilas, Plot No. D-1, District Centre, Saket, New Delhi-110017.

20) Dr. Sangeeta Banga, Dean Academics

21) Prof. (Dr.) Parul Jhajharia, Dean, Management and Humanities

22) Prof. (Dr) Shruti Vashisht, Dean Student Welfare & HoD, ECE.

23) Dr. Babita Parashar, Dean Education

24) Prof (Dr) Pradeep Kumar Varshney, Dean, Research & Applied Sciences

25) Ms. Hanu Bhardwaj, HoD, Computer Science & Engineering

26) Dr. Sujata Nayak, HoD, Mechanical Engg.

27) Dr. Jai Praksh, HOD, Physics

28) Dr. SK Shukla, HOD, Chemistry
29) Dr. Rashee Singh, HoD, Education.
30) Dr. Deepa Arora, HoD, Mathematics
31) Dr. Versha Vahini, HoD, Law
32) Prof. (Dr.) A. K Gupta, Professor, Chemistry
33) Prof. (Dr.) D.K. Sharma, Professor, Physics
34) Prof. (Dr). Sushmita Ray, Professor, CSE
35) Dr. Pragati Chauhan, Associate Professor, Management
36) Ms. Meena Kapahi, Associate Professor
37) Dr. Jyoti Pruthi, Associate Professor, CSE.