



**MANAV RACHNA  
UNIVERSITY**  
Declared as State Private University vide Haryana Act 26 of 2014

**MANAV RACHNA UNIVERSITY**  
(Established vide Haryana Act 26 of 2014)

**MINUTES  
OF  
FOURTH MEETING  
OF THE  
BOARD OF MANAGEMENT**

**Dated: 28.09.2016**

**Minutes of the Fourth Meeting of the Board of Management held on Wednesday, Dated the Sept. 28, 2016 at 2.00 P.M in the Board Room, A-Block, MRIU Campus, Faridabad.**

A meeting of the Board of Management of Manav Rachna University was held on Thursday, Dated 28.09.2016 at 2.00 P.M in the Board Room, MRIU Campus, Faridabad to consider various administrative, academic and financial matters. The following were present:

1. Prof. (Dr.) Sanjay Srivastava, Vice Chancellor;
2. Dr. Amit Bhalla, Vice President, MREI,
3. Dr. N.C. Wadhwa, Vice Chancellor, MRIU;
4. Dr. M. M. Kathuria, Trustee (special Invitee);
5. Prof. (Dr.) Meenakshi S. Khurana, Dean, Academics;
6. Prof. (Dr.) B.M. Behal, Dean, Applied Sciences & Research;
7. Prof. (Dr.) M.R. Tyagi, Dean, Engineering;
8. Prof. Sangeeta Banga, Director/Dean, Students Welfare;
9. Shri Rajiv Malhotra, Chief Finance & Accounts Officer (Special Invitee);
10. Dr. Kameshwar Singh, Registrar/Secretary.

Worthy Additional Chief Secretary (Higher Education) or his nominee, Shri Navdeep Chawla, M.D. Psychotropic India Ltd., Faridabad, Shri M.K. Miglani, Former Vice Chancellor , KU & HAU (Haryana), Shri Pramit Sanghavi, M.D. Varahi Group of Industries, Kirti Nagar, New Delhi and Prof. (Dr.) V.K. Mahna, Pro Vice Chancellor & Dean , Faculty of Management and Humanities, MRU who could not attend the meeting due to their other professional engagements were granted leave of absence.

The following are the minutes of the meeting:

**4.1. Opening remarks by the Chairman**

The Chairman welcomed the Members present in the meeting and said that, on academic front we have improved a lot since inception of the University. This year, admissions have also been up to a acceptable level in comparison to last year which is indicative of the public faith and reputation/image of strong academics MRU carries with it. We are confident to achieve our goal with hard work and dedication of our faculty and staff in coming years. With these words, the Chairman concluded his remark and requested the Registrar to take up the Agenda of the Meeting. The Registrar took up the next agenda for consideration of the Hon'ble members.

**4.2. Confirmation of the Minutes of the last meeting of the Board held on 21.01.2016**



The Board was informed that Minutes of the last meeting held on 21.01.2016 were circulated to all the members vide letter no. MRU/ BoM (A&M)/2015, dated 04.02.2016, no comments were received from any one of the members. The Board after deliberation confirmed the minutes of the last meeting.

**Decision: The Board confirmed the Minutes of the last meeting.**

#### **4.3. Action Taken Report on the Decisions taken in the Third Meeting of the Board.**

The action taken by the University on the decisions of the Board were listed for information of the Hon'ble members as under:

| <b>Sl. No.</b> | <b>Agenda</b>                                                               | <b>Decisions</b>                                                                                                                                                                  | <b>Action taken thereon</b>                                                                                                                                                                                                                      |
|----------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.             | Opening Remarks by the Chairman                                             | -                                                                                                                                                                                 | No action required                                                                                                                                                                                                                               |
| 2.             | Confirmation of the Minutes of the last meeting held on 30.09.2015          | Board confirmed the minutes of the last meeting                                                                                                                                   | No action required                                                                                                                                                                                                                               |
| 3.             | Action Taken Report on the Decisions taken in the last Meeting of the Board | Took the action taken report on record.                                                                                                                                           | No action required                                                                                                                                                                                                                               |
| 4.             | Matter for Information                                                      | The Board took all the information on record with advice that the University should work out for introducing the integrated Technology programs from the academic Session 2017-18 | As far as the matter of Introducing the integrated Technology Programs, Departments are of the view that, we should first strengthen our Master Programs before we think of introducing the integrated Technology Programs. Hence, not taken up. |





|    |                                                                                            |                                                                                                                                                                                                                                                     |                                                                                                                                |
|----|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| 5  | Approval of the decisions taken by the Finance Committee in its meeting held on 12.01.2016 | The Board approved the decisions of the Finance Committee.                                                                                                                                                                                          | Action was taken accordingly.                                                                                                  |
| 6. | Approval of the decisions taken by the Academic Council in its meeting held on 13.01.2016. | Board approved the decisions of the Academic Council with the stipulation that all the academic programs to which admissions are proposed to be made on the basis of MRNAT, admissions to the programs be made only on the basis of merit in MRNAT. | It was incorporated in the Admission Brochure and the admissions to the Programs were made accordingly                         |
| 7  | Approval of the Consultancy Rules/ Regulations of the University.                          | The Board approved the Consultancy Regulation with the advice to think over the way to increase the consultancy to the University.                                                                                                                  | The approved Regulation was notified to the Academic departments for implementation.                                           |
| 8  | Approval of Ordinance relating to Maintenance of Discipline among the students             | The Board approved the Ordinance relating to Maintenance of Discipline among the students. Approved Ordinance                                                                                                                                       | The approved Ordinance was sent to the Dept. of Higher Education for approval of the Govt. of Haryana and Gazette Notification |
| 9  | Any other matter with the permission of the Chair                                          | No other item was discussed.                                                                                                                                                                                                                        | -                                                                                                                              |

**Decision: The Board took the Action taken Report on record.**

#### 4.4. Matter for information





**i) Faculty members Joined/Resigned from the Service since 01.02.2016 onwards.**

The Board was informed that during the period from March to September, 2016, 14 faculty members joined and 13 left the service of the University. A list showing the names with departments and date of leaving were presented before the members for their information.

**ii) Faculty Achievements**

The Hon'ble members of the Board were apprised with the achievements of our faculty members involved in Infosys Campus Connect Training programme and the students.

**Manav Rachna University** is an 'Advanced Academic Partner' with **Infosys Ltd.** under their **Campus Connect Program** (soft skill and technical tracks) since 2009. The CC Program aims at evolving a model through which Infosys and Engineering institutions can partner for competitiveness to prepare industry ready professionals by aligning and enhancing their competencies with the needs of the industry.

**Ms. Hanu Bhardwaj**, HoD Computer Science & Technology Department, won the **first prize** under the '**Inspire Faculty Contest for Distinguished Facilitator**' for successfully incorporating Agile methodology in first year programming courses at Manav Rachna University. **A tablet PC has been given as an award.**

**Thirty one** faculty members from MRU have been recognized as **BRONZE partners** and **SILVER partners** under the 'Campus Connect Faculty Partnership Model' in the year 2015 which is the **maximum faculty partnership awards** in Northern region. These awards have been given in recognition of outstanding efforts of the faculty members in successfully conducting Campus Connect activities at the university and undergoing various training programs conducted by Infosys in the year 2015.

**Seventeen** faculty members have been recognized as **bronze partners** under the **soft skills program**. Under technical track, **three** faculty members have been recognized as **silver** faculty partners and **eleven** faculty members as **bronze** partners. The faculty members have been trained and monitored by the **Infosys Campus Connect** Team for imparting training to the students.

The awards were given during **Inspire Faculty Excellence Awards** - annual event at Infosys, Chandigarh DC on 29<sup>th</sup> June, 2016.

In year 2015, under the leadership of **Dr. Deepa Arora**, the soft skills team, comprising faculty members from departments like Applied Sciences, Management and Mechanical Engineering, successfully rolled out Ten batches of soft skills program - 'Communication and Team Work' - for the entire fourth semester B.Tech. students. **A total of 529 students were trained on this module.**



**Faculty members from Computer Science and Technology department** rolled out three Foundation Program (FP) batches for the B.Tech. CSE/IT sixth semester students (**153 students**). The FP is part of the training that Infosys gives to the fresh recruits at its Mysore campus. In this endeavor of producing skilled manpower, Infosys has been training the faculty members through various Faculty Enablement Programmes.

The approach adopted by the department got appreciation from the Infosys and other partner institutes.

### **(iii) Students Achievements**

- **Team Cronos** comprising of **Akash Lohan, AnjanKar, Sahil Tanwar, Rahul Sharma and Himanshi Bhadana** bagged the **second prize** for its coveted project **“Klodo**.
- **Team Eyeluminati** comprising of **Roopam Sharma (CSE 4<sup>th</sup> Year)** and **Neeraj Saini (ECE 3<sup>rd</sup> Year)** **secured 2nd position** and scored a **honorable mention at the World Finals of the MIT's Global Startups Workshop Competition** held from 21<sup>st</sup> to 23<sup>rd</sup> March 2016, at Hyderabad. During the finals, 10 teams from across the globe competed, team from Massachusetts Institute of Technology secured the first position followed by Team Eyeluminati from Manav Rachna who took the second place and also secured an honorable mention.
- **Roopam Sharma** student of 4<sup>th</sup> Year CST department Selected for **“India’s top innovators under 35”** India Edition being organized by Mint, the financial daily from the stable of HT Media Ltd, and MIT Technology Review, published by the Massachusetts Institute of Technology (MIT). **Roopam Sharma** is going to be mentored by **John Chambers, Founder Chairman Cisco**.
- The IEEE Delhi section in its award ceremony at MSIT held on 23<sup>rd</sup> April 2016 for the year 2015-16 awarded **Sunakshi Mehta**, the Chairperson of MRU IEEE with the **Outstanding Student Volunteer Award** for the second year in a row. **Upasana Nagpal**, the chairperson of MRU IEEE WIE was awarded **Outstanding WIE Student Volunteer Award**. **Vakul Sehgal**, the Vice Chairperson of MRU IEEE was awarded with **Dr. JK Pal Memorial Best Student Volunteer Award**. Also, **Vakul sehgal** was felicitated for being an **active coordinator of SAC Team of Delhi Section**.
- **Anmol Dhingra** of CSE being a winner of **Big Data & Hadoop** competition organized during Cognizance 2015 at IIT Roorkee, **received the special invitation this year** to compete with the winners of **Zonal rounds during Cognizance 2016**, held from 18<sup>th</sup> to 20<sup>th</sup> March 2016.





- Students from ECE Department participated at Utkranti 2016, Technical Fest of IIT Madras, organized from 2nd to 7th March and **secured 3rd position in Robotics event.**
- Two teams from B. Tech. first year participated in the Maze Solver competition during the Technical fest of Chandigarh University organized from 17th to 19th March, 2016. **Team comprising of Ankit & Mayank stood 3rd and were awarded cash prize of Rs 5000/-.**
- Students from B. Tech. first year participated in Inter-District event '**IGNIDEA 2016**' organized by The Environment Club and the Planning Forum of DAV Centenary College on 11th April, 2016. **Abhinav Sharma (CSE) and Ashu Singhal (ME) bagged I prize in quiz competition.**

**Decision: The Board took the information on record.**

#### **4.5. Matter for ratification**

##### **i) Approval of the Appointment of Professor, Associate Professor and Assistant Professors**

###### **a). Department of Education.**

It was submitted for information of the Board that, on the recommendation of the Academic Council, the Board of Management had given approval for starting B.Ed. (2 Years) and two integrated B.Ed. programs i.e. B.A. B.Ed. & B.Sc. B.Ed.(4 Years) with intake 100 each from the academic session 2016-17 subject to approval from the NCTE. As was required in the letter of intent received from the NCTE, advertisement was published in the national dailies and walking interview was also held for recruitment of Assistant professors for B.Ed. Programs. Out of 16 selected candidates for the position of HoD/Assistant Professor in different subjects, who were issued offer of appointment, 09 Candidates have joined the position and working in the Department. A list of such HoD/Assistant professors along with their CVs was provided to Hon'ble members for perusal and consideration.

###### **b) Department of Physics / Chemistry/ Mathematics / Management & Commerce**

The Hon'ble members of the Board were further informed that University had also made recruitment for the position of Professor/ Associate Professor /Assistant Professors in the above departments and issued offer of appointment to the 05 selected candidates (Professor -01 (Management), Associate Professor - 01 (Maths) , and Assistant Professor - one each in Mathematics, Physics and Chemistry). All the 05 candidates have joined the position of Professor/ Associate Professor /Assistant





Professor in the departments concerned. Details thereof were provided to the Hon'ble members for perusal and consideration.

**Decision: Board ratified the appointment of One Professor, one Associate Professor and Twelve Assistant Professors.**

**4.6. Consideration of the recommendation of the Finance Committee made in its meeting held on 06.09.2016.**

The Board was informed that fourth meeting of Finance Committee was held on 06.09.2016 wherein, decisions on financial matters were taken as under:

| Sl. No. | Agenda                                                                                                                                                                                  | Decisions                                                                                                                                                               |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.      | Opening Remarks by the Chairman                                                                                                                                                         |                                                                                                                                                                         |
| 2.      | Confirmation of the Minutes of the last meeting held on 12.01.2016.                                                                                                                     | FC confirmed the Minutes.                                                                                                                                               |
| 3.      | Action Taken Report on the decisions taken in the Third Meeting of Finance Committee                                                                                                    | Took the action taken report on record.                                                                                                                                 |
| 4.      | Proposed Budget for the FY 2016-17 is presented for consideration.                                                                                                                      | FC approved the Budget for FY 2016-17 and resolved that same be submitted before the Board of Management in the next Meeting                                            |
| 5       | Consider for approval the Balance Sheet and Annual Accounts for the Financial Year 2015-16.                                                                                             | FC approved the Balance Sheet and Annual Accounts for the Financial Year 2015-16 and resolved that same be submitted before the Board of Management in the next Meeting |
| 6.      | Consider the detail of Actual Expenditure and Income for the first four months of current financial year 2016-17 i. e. from 1 <sup>st</sup> April, 2016 to 31 <sup>st</sup> July, 2016. | FC took the four months expenditure on Record.                                                                                                                          |

The minutes of the meeting of the Finance Committee were provided to the Hon'ble members who after detailed deliberation accepted the recommendations of the Finance Committee.



**Decision: The Board accepted the recommendations of the Finance Committee and approved its submission to the Governing Body for approval.**

**4.7. (a) Approval of the MRU (Second) Regulation, 2016 on Sexual Harassment of Women at Work place.**

The Board was informed that a regulation has been prepared by the university as per the Visakha guidelines and the norms laid down by the UGC/Govt. on the subject matter from time to time to deal with the cases of sexual harassment of women at work place for their consideration. The Board after having detailed discussions approved the draft regulation.

**Decision: The Board approved the above Regulation, a copy of which is annexed as Annexure -I.**

**(b) Approval of the MRU ( Purchase of Goods & Services) Regulation, 2016**

The Board was apprised that a regulation has been prepared by the university describing the procedure for purchase of goods and hiring of services for the University and Academic Department. The regulation was presented before the members of the Board for deliberation. The Board after having detailed discussions approved the draft regulation. A

**Decision: The Board approved the above Regulation, a copy of which is annexed as Annexure -I(a).**

**4.8 Creation of Faculty of Law and Department of Law**

It was submitted for information of the Board that the University intends to start Law programs at UG Level from the academic session 2017-18. The program would be offered by the Department of Law which will function under aegis of Faculty of Law. For starting the program, a proposal to start LLB (3yrs), BA LLB, BBA LLB & B. Com. LLB (5 years) was submitted to the ACS to Govt. Department of Higher Education, Haryana for permission as required under the section 34A (1) of the Haryana Private Universities Act, 2006 and amended from time to time for the same, The Department of Higher Education had asked to make a presentation before the Committee on 14.09.2016. A five member team under the chairmanship of Hon'ble Vice chancellor participated in the presentation/deliberation. We are expecting to get NOC from the Govt. soon.

Considering the initiative taken in this regard, it is necessary to create the Department of law and the Faculty of Law to take up the process further in this direction i.e. submission of application to the Bar Council of India and to comply with other statutory requirements for the programs. The Board considered the proposal for creation of the





Faculty of Law and Department of Law respectively and unanimously resolved that the university should go ahead with the proposal.

**Decision: The Board approved the creation of the Faculty of Law and the Department of Law in the University.**

#### **4.9 Any other matter with the permission of the Chair**

##### **(1) Withdrawal/Refund Policy for the Academic session 2017-18**

Board was informed that the University intends to adopt refund/withdrawal policy prescribed in the UGC (Institution deemed to be university) Regulations, 2016 which prescribes as follows-

a). In case the student informs of his intention not to join the institution at least 7 days before and start of the academic session, then 100% of the fee collected minus the processing charges, which shall not be more than Rs 10,000, or any other amount fixed by UGC. The same shall be refunded within 15 days of receipt of information from the student.

b). In case of such information given by the student and the Institution is able to fill-up the seat so vacated, then 100% of the fees collected minus the processing charges, which shall not be more than Rs 10,000, or any other amount fixed by UGC. The same shall be refunded within 15 days of request of refund from the student or expiry of 30 days after opening the academic session, whichever is later.

c). In case no such information is given by the student and Institution is not able to fill up the seat even by the end of 30 days after the opening of academic session, then 50% of the fee collected minus the processing charges, which shall not be more than Rs 10,000, or any other amount fixed by UGC. The same shall be refunded within 15 days of request of refund from the student or expiry of 30 days after opening the academic session, whichever is later.

The Hon'ble members of the Board after deliberation on the need of the same unanimously resolved for adoption of the same in MRU for the session, 2017-18.

**Decision: Board approved adoption of the withdrawal/refund policy specified in UGC Regulation, 2016 for the academic session 2017-18.**

**(2) Approval of Intake and Fee Structure for various UG/PG Programs to be offered during the academic session 2017-18.**





Board was informed that during the Academic session 2017-18, the University intends to continue the following UG/PG Programs with intake and fee structure as shown against their names. After deliberation, the Board approved the same as follows :

| S.NO.                                         | Name of UG/PG Program                                             | Intake | Fee Structure (p.a.) |
|-----------------------------------------------|-------------------------------------------------------------------|--------|----------------------|
| <b>Bachelor of Technology</b>                 |                                                                   |        |                      |
| 1                                             | B.Tech. CSE                                                       | 240    | Rs.1,70,000          |
| 2                                             | B. Tech. ME                                                       | 60     |                      |
| <b>Bachelor of Technology (Lateral Entry)</b> |                                                                   |        |                      |
| 3                                             | B.Tech. CSE                                                       | 48     | Rs. 1,65,500         |
| 4                                             | B.Tech. ME                                                        | 12     |                      |
| <b>Master of Technology</b>                   |                                                                   |        |                      |
| 1                                             | M.Tech. CE                                                        | 18     | Rs. 1,00,500         |
| 2                                             | M.Tech. ME                                                        | 18     |                      |
| <b>Bachelor of Business Administration</b>    |                                                                   |        |                      |
| 1                                             | BBA (Health Care Management) in association with Cygnus Hospitals | 100    | Rs. 1,50,000         |
| 2                                             | BBA (Finance & Accounts)<br>(Note 1)                              |        | Rs. 1,65,000         |
| 3                                             | BBA (Entrepreneurship & Family Business)                          |        |                      |
| <b>Bachelor of Science (Hons.)</b>            |                                                                   |        |                      |
| 1                                             | B.Sc. (Hons.) Chemistry                                           | 30     | Rs. 1,00,500         |
| 2                                             | B.Sc. (Hons.) Mathematics                                         | 20     |                      |
| 3                                             | B.Sc. (Hons.) Physics                                             | 15     |                      |
| <b>Master of Science</b>                      |                                                                   |        |                      |



|                                                                        |                             |    |              |
|------------------------------------------------------------------------|-----------------------------|----|--------------|
| 4                                                                      | M.Sc. Chemistry             | 30 | Rs. 1,00,500 |
| 5                                                                      | M.Sc. Mathematics           | 10 |              |
| 6                                                                      | M.Sc. Physics               | 10 |              |
| <b>Bachelor of Education</b>                                           |                             |    |              |
| 1                                                                      | B.Ed.                       | 50 | Rs. 1,00,500 |
| 2                                                                      | B.A./B.Sc. B.Ed. Integrated | 50 |              |
| Faculty of Law to be decide, once after getting approval from the BCI* |                             |    |              |

**Decision: Approval of Intake and Fee Structure for various UG/PG Programs to be offered during the academic session 2017-18.**

**(3) Research and Innovation Incentive Scheme for Faculty Members for Research Publication/Patents**

Board was informed that presently, only Ph.D. scholars and faculty members are involved in research publications. From this year onwards, it has been decided to involve the UG students also in the research work and publication of papers, articles in refereed journals/patents etc. for which provisions have been made in the Program. In order to strengthen the research and innovation activities in the university and to encourage the faculty and students to associate / involve themselves in R & D activities, it is proposed to have an incentive based scheme which will help the academic departments in generating research funds for setting up the research labs/up-gradation of equipments and also to motivate individuals for publishing good research papers in reputed refereed journals. Besides, it will help the Departments in acquiring better ranking from the regulatory bodies like NBA, NAAC and NIRF in future. Accordingly, modalities of the scheme have been worked out and mentioned below for consideration of the Hon'ble member of the Board.

**i) Objective of the Scheme:**

The primary objective of the proposed incentive scheme is to motivate the faculty members of our University to undertake quality research, consultancy and other research related activities.

**ii) Scope of the Scheme**

This scheme covers all faculty members of all Departments of the University.

The scope of the scheme envisages, in particular:



- to motivate our faculty members to concentrate on research related activities, in addition to the teaching, so as to publish research articles in reputed refereed international and national journals with impact factor.
- to pursue efforts to write books, monographs for publication by International and National publishers of repute.
- to evince interest among the members of faculty so that they take efforts to establish collaborative research projects with their counterparts in reputed foreign Universities.
- to encourage our faculty members to submit proposals and secure funded research projects from various funding agencies in India and Abroad.
- to undertake consultancy projects sponsored by both Government & Private, Industrial and other organizations.
- to encourage creativity in the minds of faculty members, so that they make original contributions by way of products, concepts etc. and obtain patents.

### iii) Details of the Scheme:

Faculty members will earn incentives on the basis of criteria mentioned below under each category for non-paid Journals only for their last year achievements:-

| Category                                                                                                              | Calculated@ | 60% of share for Capital Investment or Non-recurring expenditure | 25% of share for Consumables / Recurring expenditure | 15% of share as cash incentive to individuals |
|-----------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------|------------------------------------------------------|-----------------------------------------------|
| International Patent Grant                                                                                            | 100000      | 60000                                                            | 25000                                                | 15000                                         |
| International Publications in Scopus / SCI/ WOS/ EBSCO Host or Dare Database- International Social Sciences Directory | 50000       | 30000                                                            | 12500                                                | 7500                                          |
| National Patent Grant / International Patent Filed                                                                    |             |                                                                  |                                                      |                                               |
| Books Authored                                                                                                        |             |                                                                  |                                                      |                                               |
| International Journal Publications with Impact Factor                                                                 | 25000       | 15000                                                            | 6250                                                 | 3750                                          |
| Book Chapter / Monographs written                                                                                     |             |                                                                  |                                                      |                                               |





|                                                                          |                                       |      |      |      |
|--------------------------------------------------------------------------|---------------------------------------|------|------|------|
| National Journal Publications with Impact Factor / National Patent Filed | 10000                                 | 6000 | 2500 | 1500 |
| Research Project Grant                                                   | Overheads as per funding agency rules |      |      |      |

**iv) Period of Reckoning:**

The Academic year is the period for calculating the credits earned by a faculty member i.e. from 1st July of the previous year to the 30<sup>th</sup> June of the current year.

**v) Procedure for the payment of Incentive:**

At the end of every academic year, the total incentives earned by a faculty member will be calculated based upon the evidences produced and the incentive payable to the faculty member will be arrived at and disbursed as per policy.

It is the responsibility of the faculty member to produce evidences of the documents. He has to produce a printed copy of the evidence to the HOD at the closure of the academic year on or before 30<sup>th</sup> June. HOD concerned will verify these documents and submit their recommendations to Concerned Dean alongwith summary of credentials with calculation sheet as per notified policy **on or before 7<sup>th</sup> July of the year**. All Deans will send their recommendations to Dean Academics on or before 15<sup>th</sup> July of the year. The claim will be checked by the committee constituted by the Vice Chancellor **on or before 31<sup>st</sup> July of the year** for final approval. The office of the Registrar will claim and disburse the amount following the usual procedure.

**vi) Other Conditions / Guidelines:**

- If more than one faculty member is involved in publications, the amount will be shared by them.
- If an author from other university or college is involved, they need not be considered and the claim of internal faculty will be reduced as per sharing rule.
- As this being a tentative scheme, the criteria and modalities will be amended then and there, by the University.

The Board deliberated over the issue at length and approved the same unanimously.

**Decision: Board approved the above proposal.**

**4. Matter of Ratification:**

- (i) Approval of amount of seed money sanctioned by the Vice Chancellor to the faculty members for their Research Projects for the Year 2017-18



BOM considered the amount sanctioned for seed money to the faculty members to carry out their Research Projects by the Vice Chancellor and the proposal for the seed money of Rs. 36.44 Lakhs for 18 projects to 19 faculties and resolved to ratify the same.

**Decision : The Board ratified the amount of seed money of Rs. 36.44 Lakhs sanctioned by the Vice Chancellor to the faculty members for their Research Projects for the Year 2017-18. Approved projects are annexed as Annexure No-II**

**(ii) Approval of MRU Strategic Plan for Academic Year 2016-2020.**

Board was presented to consider and approve the 4 year strategic plan 2016-2020. The strategic plan set out objective for achieving the goals to facilitate, Introduction of new UG/PG programs, enhance & promote innovation and entrepreneurship related courses, establish center of excellences, promote research, building capabilities in latest areas, increasing collaborations through industry academia partnerships, community connect etc. It was deliberated by the members and approved with the resolve that progress/status shall be reviewed every two years and presented before the Board for information and further guidance.

**Decision: Board of Management ratified the strategic plan of the University for the period from 2016-2020 with advice that progress/status be reviewed every two years and presented for information to the Board. A copy of the approved plan is annexed as Annexure No-III.**

**5. Matter for information**

**(a). Gazette Notification of MRU First Statutes**

It is submitted for information, that First Statutes of the University which was duly approved the Board of Management and submitted to the DHE, Govt. of Haryana has been approved with addition & modifications in the proposed Statutes and notified by the Haryana Education Department, Haryana Government vide Gazette Notification No.KW 20/5-2013 UNP (5) dated the 2<sup>nd</sup> February, 2016.

**(b) Admissions made to the UG/PG Programs for the Academic Session 2016-17.**

The Board was informed that admissions to various UG/PG programs for the academic Session 2016-17 were started as per the schedule notified in the Admission Brochure. Right from the June, 2016 when our first counseling was held, the admissions were made in the University as per the eligibility condition approved by the Board for various UG/PG programs. Currently, 402 students are admitted to First year of all the UG programs, the details of which are as follows:

|                  |       |              |      |
|------------------|-------|--------------|------|
| i) B. Tech.      | - 284 | iv) M. Tech. | - 04 |
| ii) B.Sc.(Hons.) | - 30  | v). M. Sc.   | - 19 |





The classes were started from different dates i.e. B. Tech.(12.07.2016), B.Sc. (Hons) ( 08.08.2016) , BBA ( 14.07.2016) and M.Sc. (08.08.2016).

**(c) MRU Recognitions:**

- MRU has been ranked 10<sup>th</sup> among all the private engineering institutes and 29<sup>th</sup> among all engineering institutes across the country **by Times Engineering Survey** (TOI, May 27, 2016).
- Prof. (Dr.) Sanjay Srivastava (VC, MRU & MD, MREI ) has been awarded **Honorary Research Fellowship of Lahti University of Applied Sciences (LAMK-UAS), Finland**. This rare honour was bestowed upon him by the Hon'ble Prime Minister of Finland Mr. Juha Sipila, who was in India for the "Make in India Week" on the invitation of Prime Minister Modi.  
He is amongst the only three Research Fellows of LAMK-UAS Helsinki and is the first Asian Honorary Research Fellow of LAMK-UAS. Prof. Allan Barell (Univ. of Cambridge) and Professor Lene Foss (The Artic University of Norway) are the previous two Honorary Research Fellows of LAMK-UAS. This honorary position will entitle Dr. Sanjay Srivastava to represent Lahti UAS on various international forums for academic improvement, research and development. It would also enable him to enhance Lahti UAS relations with Indian and other international universities as per policies of Lahti UAS Helsinki.

**(d) MoUs / Agreements/ Collaborations**

• **International Collaborations:**

The purpose of collaboration of MREI with foreign Universities is that an International exposure, in today's scenario has become a precondition for success for students. Graduate schools need to be firmly embedded in the global science landscape. Such tie-ups with overseas Universities not only aid in pooling of resources, but also help in facilitation of supervision processes and ultimately leads to an ambitious programme being run at the graduate and post graduate level for students. Having International education experience is an incredible resume booster, as it shows prospective employers that the applicants are motivated, independent, and generally more qualified. With this aim in mind, MREI has academic collaborations with several International Universities including **Autonomous University of Sinaloa**, Mexico, **Purdue University**, Indiana, **Lahti University**, Finland, **Hasan Kolyunko University**, Turkey, **Istanbul Kultur University**, Istanbul, **Istanbul Commerce**





University, Istanbul, Berlin Technical University, Berlin, EIA University, Columbia and Lady of the Lake University, Texas.

**(i) Highlights of Collaborations with LAMK (Finland)**

| <b>PARTNER UNIVERSITY - LAHTI UNIVERSITY OF APPLIED SCIENCES, FINLAND</b> |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|---------------------------------------------------------------------------|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>ACTIVITIES/INITIATIVES/<br/>EVENTS</b>                                 | <b>DURATION</b>   | <b>DESCRIPTION</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>VISIT TO MR CAMPUS</b>                                                 | October, 2015     | Dr. Outi (CEO, LAMK Finland), Dr. Pia (Faculty of Technology) and Prof. Harry (Design Institute) visited the campus. The opportunities of collaborations between both the universities were discussed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>INTERNATIONAL<br/>HONORARY RESEARCH<br/>FELLOW</b>                     | February,<br>2016 | Prof. (Dr.) Sanjay Srivastava (MD MREI & VC MRU) has been awarded Honorary Research Fellowship of Lahti University of Applied Sciences (LAMK-UAS), Finland. This rare honour was bestowed upon him by the Hon'ble Prime Minister of Finland Mr. Juha Sipila, who was in India for the "Make in India Week" on the invitation of Prime Minister.                                                                                                                                                                                                                                                                                                                                                    |
| <b>SMART CITIES IN SMART<br/>REGIONS CONFERENCE,<br/>LAMK, FINLAND</b>    | May,<br>2016      | LAMK partnered with MR (including other renowned universities) in organising First International Conference on "SMART CITIES IN SMART REGIONS 2016".<br><b>Prof. (Dr.) Sanjay Srivastava (MD MREI &amp; VC MRU) &amp; Dr. N.C. Wadhwa (VC MRIU)</b> were invited to present the <b>Theme keynote</b> (10th May, 2016) during the conference.<br>MREI and LAMK have entered in to an <b>ACADEMIC AGREEMENT</b> to develop academic and cultural interchange through mutual assistance in the areas of education and research.<br><br><b>MRU participated as:</b><br><br><b>International Steering Committee Member</b> (Meena Kapahi & Dr. Megha Mittal)<br><br><b>Technical Reviewer Committee</b> |



|                                             |                             |                                                                                                                                                                                                                                                                                             |
|---------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                             |                             | <p><b>Member</b> (Meena Kapahi, Dr. Megha Mittal, Prof. (Dr.) Meenakshi S Khurana, Prof. (Dr.) B.M. Bahal, Prof. (Dr.) A.K. Gupta, Dr. Sujata Dash)</p> <p><b>Oral Presenters LAMK, Finland</b> (Meena Kapahi &amp; Sanjana Malhotra)</p>                                                   |
| <b>VISIT TO MR CAMPUS</b>                   | May 24 <sup>th</sup> , 2016 | Dr. Juhani visited the campus, meeting were conducted at VC office with the Deans and faculty members of all the faculties of MREI. The detail of the PhD program at MRU was shared with him.                                                                                               |
| <b>STUDENT EXCHANGE AT MR</b>               | September to January, 2017  | Three students from LAMK are at MRU for their 5 months project work related to community and environment. They are visiting the rural and urban waste management facilities by Municipal Corporation Faridabad and shall working under the guidance of Ms Meena Kapahi and Prof Rajat Gera. |
| <b>STUDENT EXCHANGE SPRING 2017 at LAMK</b> | January to May, 2017        | LAMK is inviting applications from students under the students exchange program Spring 2017 (Jan - May 2017) in various faculties.                                                                                                                                                          |
| <b>EDUCATIONAL TRIP at LAMK</b>             | February to March, 2017     | Applications are being invited from the students of B.Tech. III semester for the 2 weeks educational trip at Finland.                                                                                                                                                                       |

**(ii) Purdue Next :**

MRU and Wiley India have entered into a professional arrangement. Wiley India is a subsidiary of John Wiley and Sons inc., the *numero uno* publishing company in the world. They have an education vertical through which they have forged a partnership with Purdue University. This partnership with Wiley shall lead to launching of cutting edge online courses directly by the Purdue University to students. In the current semester an **online course on 'Sustainability Strategies' is being offered to the B Tech (2015-19 Batch) and MBA (2015-16) Batch.** A total of 154 students are enrolled for the course. The course is being offered under the elective basket theme 'Environmental Ethics & Sustainability Development'.





**(iii) iCarnegie:**

iCarnegie, a subsidiary of Carnegie Mellon University, Pittsburgh USA and MREI have signed an MoU to share their Learning Management System covering subjects related to Computer Engineering/ Information Technology with MRU for its students studying in B.Tech Programmes. **iCarnegie's Software development program (SDP-02) was carried out in workshop mode for B.TECH 2015-19 (CSE,IT,ME,ECE) students.** While learning how to develop simple java applications, the students got experience of using application interfaces, abstraction, generalization, and other crucial engineering concepts using objects as a key strategy to control complexity and support reuse. Using basic design concepts such as flowcharts, pseudo-code and Unified Modeling Language (UML) diagrams while developing applications, producing useful client-side applets and standalone applications, based on realistic requirements similar to those they would receive from an actual client or employer.

**(e) Industrial Collaborations**

**(i) Su- Kam : Establishment of Centre for Smart Solar Energy'**

MREI signed MoU with Su-Kam Power Systems (28<sup>th</sup> October, 2015) with a purpose of collaboration on Academic and Research areas. To enrich the learning experience of its stakeholders a 'Centre for Smart Solar Energy' has been established in campus and was inaugurated on 13<sup>th</sup> April 2016. The Centre provides "in field" exposure to both faculty members and students of the latest developments in the field of solar energy and its commercial applications in the area of energy generation, storage and deployment. Apart from training in-house faculty and students of MREI, Centre conducts various advanced trainings for professional working in the area.

**(ii) Venture7 Technology Private Limited: SkyTesters Centre of Excellence (COE)** at Manav Rachna University is an initiative of Venture7 Technology Private Limited. Manav Rachna University and Venture7 Technology Private Limited established cooperative relations between the two on Sept 19, 2016, especially to bridge the gap between academia and industry through mutual assistance in the areas of education and current industry trends. SkyTesters is one of the best software testing companies in India who deals in B2B web & mobile app testing services. SkyTesters focus on QA strategy, crowd source testing, and test automation. Within a year of incorporation, company is assisting largest media group of India, one of most reputed healthcare group in USA and 20+startsup in India, Singapore and USA. SkyTesters has been awarded as a "Most Innovative Technology Company" at Delhi Edge Conclave on May 2016.

This association will enable students to work on industry products/projects assignments of Venture 7 and/or their customers. **Students will get hands-on in**





**manual/automated testing by working on many live projects like BookMyTrain, Snapdeal, Grofers, Gaana, Curofy and many more.**

**(iii) Cygnus Hospitals**

With the objective to provide industry ready and employable candidates, Cygnus Medicare Pvt. Ltd. and Manav Rachna University (MRU) signed an MoU to provide trained manpower in the Health Care sector and joined hands to bring structured BBA (Healthcare Management) program specializing in Health Care Management. This relationship provides students, one year practical training with Cygnus Hospitals.

**(iv). SAP (Systems, Applications & Products in Data Processing) student Academy:**

Manav Rachna Educational institutions (MREI), have collaborated with SAP SE to offer extensive range of courses to all its students. SAP Student Academy is designed to provide cutting-edge and effective SAP training to aspiring students. This will enable them to bridge the industry-academia gap and enhance their employability and entrepreneurship opportunities. The academy provides opportunity to Manav Rachna University (MRU) students and faculty to for SAP Student Academy programs in campus.

**(f). MOU with CL Media (Accendere)**

An MOU was signed between CL Media (CLM) and Manav Rachna University (MRU) to establish Industry Academic Research Collaboration in areas of Mutual Interest on 27<sup>th</sup> May 2016. CLM through Accendere shall setup process and produce research papers & external support in publishing in relevant indexed Journals like Scopus/SCI/WOS or present in relevant conferences. Further Accendere would encompass variety of activities enabling the faculty and students understand the process, formation of research groups, selection of faculty mentors from MRU and identification of research topics for research groups.

Accendere would provide all support to enable research groups of students in identifying research problems, literature survey, conducting review of literature, progress in research to its conclusion and publishing research work in relevant journals and filing of Patents if any.

**(g) Important Events:**

**i) National Conference on “Emerging Trends and Innovations in Electronics and Telecommunication Engineering (June 28<sup>th</sup>, 2016).**

Department of Electronics & Communication Engineering organized its first National Conference on Emerging Trends and Innovations in Electronics and



Telecommunication Engineering (ETIETE-2016), **technically co-sponsored by Institute of Electronics and Telecommunication Engineers (IETE) and Indraprastha Institute of Information Technology (IIIT, Delhi).**

Some of the key topics of interest at the Conference were 'Wireless Sensor Network', 'Mobile Communication', 'Optical Communication', 'Nanotechnology', 'Image and Speech processing', 'VLSI System design', 'Embedded Systems', 'Digital and Analog Circuit Design' and the like. Dr Manpreet Singh (Director AICTE) was the Chief Guest for the conference Inaugural. 64 Papers were presented and published ( International Journal of Innovative Research in Computer and Communication Engineering)

**ii) National Seminar on Climate Change and Disaster Management**

National Seminar on 'Climate Change and Disaster Management' was organized by Manav Rachna Educational Institutions (MREI) **in collaboration with the Centre for the Study of Administration of Relief (CSAR)** on 18<sup>th</sup> June, 2016 at MR campus. The seminar saw the participation of approximately 100 participants from MR and other reputed institutes like YMCA, LIONS club etc. The lecture sessions began with the theme presentation on "Climate Change & Disaster Management" made by Dr. Harjit S. Anand (Chairman, CSAR and former Secretary, Govt. of India). The **keynote address** was delivered by **Dr. Kamal Kishore (NDMA). Hon'ble Justice (Dr.) Arijit Pasayat**, Judge of the Supreme Court of India (Retd.), Chief Guest, in his presidential address discussed the preventive aspects of the **Disaster Management**.

**iii) Concluding Ceremony for Class of 2012-2016 (July 9<sup>th</sup> 2016)**

8<sup>th</sup> Semester passing out B.Tech. Students of Manav Rachna University and its Outstanding Achievers were felicitated at a highly motivational Concluding Ceremony in MREI campus. Over 200 students of MRCE, now MRU (Class of 2012-2016) were felicitated with Course completion certificates at the Ceremony  
Following awards were presented on the occasion.

| Awards                                                                                                                              | Awarded to                                     | Achievements                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Student Leadership Award(s):</b><br>Awarded to student(s) who has/have evidenced ability to motivate other students and has/have | <b>Sunakshi Mehta</b><br><br><b>B Tech CSE</b> | <ul style="list-style-type: none"> <li>• President Student Council MRU for session 2015-16</li> <li>• Chairperson IEEE Student chapter MRU</li> <li>• President Manav Rachna Leo Club and organized blood camps, projects with Prakashdeep NGO and number of activities at Govt. Girls High School at Mohna Village under Dr. O P Bhalla Foundation</li> <li>• Guest Speaker for the Workshop on Web Development, organized by Delhi section of</li> </ul> |





|                                                            |                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|------------------------------------------------------------|--------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| successfully lead teams for specific organizational goals. |                                            | <p>IEEE at Jamia Hamdard University.</p> <ul style="list-style-type: none"> <li>Received Best Student Volunteer awards for the year 2015-16 under Delhi Section IEEE</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|                                                            | <b>Bhavesh<br/>B Tech<br/>CSE</b>          | <ul style="list-style-type: none"> <li>President Student Council MRU for session (2015-16)</li> <li>President of Literary Society MRCE</li> <li>Actively involved in organizing all the student activities in house</li> <li>Introduced SPICMACAY Chapter at MRCE</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Outstanding Achievers Awards</b>                        | <b>Akshita Sachdeva<br/>B Tech<br/>CSE</b> | <ul style="list-style-type: none"> <li>Winner of Microsoft Imagine Cup National finals 2015, and represented Country at the International finals at Seattle</li> <li>Winner of Yahoo Accenture Innovation Jockeys 4 for the project Manovue (the World's first Intelligent personal assisting system for the visually impaired)</li> <li>Category winner of Yahoo Accenture Innovation Jockeys 3 for the project Saviour Suit and got an opportunity for a direct interview with Accenture</li> </ul>                                                                                                                                                                      |
|                                                            | <b>Jehi Jha<br/>B Tech<br/>CSE</b>         | <ul style="list-style-type: none"> <li>Runner up for Microsoft Imagine Cup 2015 National Finals under World Citizenship Category</li> <li>Represented India at BRICS Youth Summit Russia, 2015, in Science and Technology Group</li> <li>Bagged 2<sup>nd</sup> Prize for the project MoveAid in Microsoft Imagine Cup 2014, National Finals under Innovation Category</li> <li>In Microsoft Imagine Cup International Finals 2014, received 2<sup>nd</sup> prize of worth \$3000 in the competition Apps for Office Challenge for Project Molecule Maker</li> <li>Microsoft Student Associate member (2014-2015)</li> <li>Google Student Ambassador (2014-2015)</li> </ul> |
|                                                            | <b>Himanshu Khatter<br/>B Tech IT</b>      | <ul style="list-style-type: none"> <li>Selected among top 5 beta tester in honor beta testing program organized by by Huawei. He was awarded with many prizes and got the invitation to attend HUAWEI 2nd ANNIVERSARY CARNIVAL which is a global event scheduled on 12th of December in Shenzhen,China.</li> </ul>                                                                                                                                                                                                                                                                                                                                                         |
|                                                            | <b>Himanshi Bhadana<br/>B Tech IT</b>      | <ul style="list-style-type: none"> <li>Bagged second prize for its coveted project "Klodo". In Microsoft Imagine Cup National Finals, 2016</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |



|                                                                                                                                      |                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                      |                                                          | <ul style="list-style-type: none"> <li>• Bagged 1<sup>st</sup> position In Microsoft Imagine Cup, 2015 National Finals in Gaming Category</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                      | <b>Priya Dugya</b><br><b>B Tech</b><br><b>CSE</b>        | <ul style="list-style-type: none"> <li>• Bagged 1<sup>st</sup> position In Microsoft Imagine Cup, 2015 National Finals in Gaming Category</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                      | <b>Shefali Yadav</b><br><b>B Tech</b><br><b>ECE</b>      | <ul style="list-style-type: none"> <li>• Bagged 3<sup>rd</sup> position In Microsoft Imagine Cup, 2014 and 2015 National Finals in world citizenship category</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Academic Proficiency:</b><br>Awarded to highest scorer in the program.                                                            | <b>Parnika Gupta</b><br><b>(ECE)</b>                     | 81.92 % ; 7 <sup>h</sup> University Rank in 3 <sup>rd</sup> semester; 15 <sup>th</sup> University Rank in 4 <sup>th</sup> semester , 12 <sup>th</sup> University Rank in 5 <sup>th</sup> semester and 38 <sup>th</sup> University Rank in 6 <sup>th</sup> semester                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                      | <b>Garima Mangla</b><br><b>(IT)</b>                      | 77.82 % ; 8 <sup>th</sup> University Rank in 3 <sup>rd</sup> semester; 6 <sup>th</sup> University Rank in 4 <sup>th</sup> semester and 7 <sup>th</sup> University Rank in 5 <sup>th</sup> semester                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                      | <b>Deepak Gupta</b><br><b>(ME)</b>                       | 78.96 % ; 9 <sup>th</sup> University Rank in 3 <sup>rd</sup> semester; 35 <sup>th</sup> University Rank in 4 <sup>th</sup> semester and 11 <sup>th</sup> University Rank in 5 <sup>th</sup> semester                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                                                                                                                                      | <b>Ruchika Mangla</b><br><b>(CSE)</b>                    | 82.46% ; 41 <sup>st</sup> University Rank in 3 <sup>rd</sup> semester; 1 <sup>st</sup> University Rank in 5 <sup>th</sup> semester and 23 <sup>rd</sup> University Rank in 6 <sup>th</sup> semester                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Vice Chancellor's Award:</b> This award will honor a student who has the best academic record (highest CGPA/%) in the University. | <b>Ruchika Mangla</b><br><br><b>B Tech</b><br><b>CSE</b> | -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Vice President's Award:</b> This award will honor a student who has evidenced significant achievements at National Level.         | <b>Neha Valecha</b><br><br><b>B Tech</b><br><b>CSE</b>   | <ul style="list-style-type: none"> <li>• Participated in World Skills Competition 2015, and got 2<sup>nd</sup> position in National Finals under IT Software Solution For Business (ITSSB) Sector</li> <li>• Runner up for Microsoft Imagine Cup 2015 National Finals under World Citizenship Category</li> <li>• Represented India at BRICS Youth Summit Russia, 2015, in Science and Technology Group</li> <li>• In Microsoft Imagine Cup International Finals 2014, received 2<sup>nd</sup> prize of worth \$3000 in the competition Apps for Office Challenge for Project Molecule Maker</li> <li>• In Microsoft Imagine Cup 2014, National</li> </ul> |





|                                                                                                                                     |                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                     |                                                    | <p>finals positioned among top 5 finalists for the project Saviour Suit under Innovation Category</p> <ul style="list-style-type: none"> <li>• Microsoft Student Partners (2014-2015)</li> <li>• Represented Delhi Section Group at All India Student Congress (AISC 2014) held in Gujarat,</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <p><b>President's Award:</b> This award will honor a student who has evidenced significant achievements at International Level.</p> | <p><b>Roopam Sharma:</b><br/><b>B Tech CSE</b></p> | <ul style="list-style-type: none"> <li>• Listed among the top 8 innovators of the country under 35 India Edition organized by HT Mint, and MIT Technology Review, and is nominated in the list of world finalists, Youngest in the entire list and only student candidate. He is being mentored by John Chambers Founder CEO, Cisco.</li> <li>• Represented India in the global finals of MIT's Global Start-ups workshop (MIT GSW) Business Plan Competition held at Hyderabad and got appreciated for his ideas</li> <li>• Winner of Microsoft Youth Spark Challenge for Change, 2015 - World Championship , attended 6 weeks of Leadership programme at Nicaragua and has been given opportunity to serve as a Microsoft Youth Spark Advocate</li> <li>• Winner of Microsoft Imagine Cup National finals 2015, and represented Country at the International finals at Seattle</li> <li>• Winner of Yahoo Accenture Innovation Jockeys 4 for the project Manovue (the World's first Intelligent personal assisting system for the visually impaired)</li> <li>• Category winner of Yahoo Accenture Innovation Jockeys 3 for the project Saviour Suit and got an opportunity for a direct interview with Accenture</li> </ul> |

#### iv) Installation of ISHRAE Student Chapter at MRU

Student chapter of The Indian Society of Heating, Refrigeration and Air- Conditioning Engineers (ISHRAE) was installed on 12<sup>th</sup> September, 2016 at Manav Rachna University. For the ceremony Mr. Aneesh Kadyan President, Mr. Subir Das Student activity chair and Mr. Vikram Maini Executive Secretary of ISHRAE Delhi Chapter were present. Mr Piyush Mahendru (Assistant Professor ME) is the faculty coordinator from MRU for the chapter.

#### v) Blood Donation Camp:



MRU collaborated with Lions Club of Faridabad to organize a Blood Donation Camp on 16<sup>th</sup> September 2016. A total of 337 units of Blood were donated by students, faculty and staff of MRU.

The Board took all the above information on record and applauded the achievements/recognitions of the University presented before it and desired that the university should also prepare the detail of the various Research Proposals submitted to the funding agencies of the Govt., GIA received up till now and Vacancy positions in Ph D programmes depending upon the expertise of faculty available in the Departments. He further said that the Department of Mechanical Engineering should examine the feasibility of introducing a new B.Tech. Program in Industrial Engineering and Management from the session 2017-18 and come out with firm proposal for the same. The Chairman also desired that university should now expedite the process of submission of the UGC proforma as required by them for approval and also see whether it needs additional faculty as per norms laid for the purpose, if short, action to fill up the same should also be initiated and process completed before UGC team visits the campus to avoid submission of compliance which delays the approval process.

The meeting ended with vote of thanks to the Chair.



(Dr. K. Singh)

Registrar/Member Secretary

F.No. MRU/BoM(A&M)/2015

Dated: 23.01.2016

To,

1. PS to Chancellor for kind information of the Hon'ble Chancellor;
2. Prof. (Dr.) Sanjay Srivastava, Vice Chancellor;
3. Additional Chief Secretary (Higher Education), Old Civil Secretariat, Sector 17, Chandigarh.
4. Dr. Amit Bhalla, Vice President, MREI,
5. Dr. M. M. Kathuria, Trustee, NIT, Faridabad.
6. Dr. N.C. Wadhwa, Vice Chancellor, MRIU;
7. Sh. Pramit Sanghavi, M.D. Varahi Group of Ind., Kirti Nagar, New Delhi.
7. Shri M.K. Miglani, Former Vice Chancellor, KU & HAU, H.N.1161, Sector- 15, Faridabad;
8. Shri Navdeep Chawla, M.D. Psychotropic India Ltd. Faridabad
9. Prof (Dr.)V.K.Mahna , Pro VC & Dean, Management & Humanities;
10. Prof. (Dr.) Meenakshi S. Khurana, Dean, Academics;
11. Prof. (Dr.) B.M. Behal, Dean, Applied Sciences & Research;
12. Prof. (Dr.) M.R. Tyagi, Dean, Engineering;
13. Prof. Sangeeta Banga, Director/ Dean, Students Welfare.



**REGULATION**

In pursuance of the provisions under Section 34 of the Haryana Private Universities Act, 2006, the Board of Management of the Manav Rachna University hereby makes the following Regulations relating to Sexual Harassment of women (Prevention, Prohibition and Redressal ) working in the University.

**1. Definition**

1. SHORT TITLE AND APPLICATION

1.1. This Regulation may be called Manav Rachna University ( Second ) Regulation, 2016

1.2. This shall come in force from the date of approval of the Board of Management.

1.3. This shall apply to all the female employees and students employed/studying in the University

1.4. **“Sexual Harassment”** includes any one or more of the following act(s) or behavior (whether directly or by implication)namely:

- (a) physical contact or advances; or
- (b) demand or request for sexual favours; or
- (c) sexually coloured remarks; or
- (d) showing any pornography; or
- (e) Any other unwelcome physical, verbal or non-verbal conduct of a sexual nature. Whether any of these acts is committed in circumstances, where the victim of such conduct has a reasonable apprehension that in relation to the victim’s employment or work, whether she is drawing salary or honorarium or doing voluntary service, in the University, or its constituents, such conduct can be humiliating and may constitute a health and safety problem. It is discriminatory when the woman has reasonable ground to believe that her objection would disadvantage her in connection with her employment or work including recruiting or promotion or when it creates a hostile work environment. Adverse consequences might be visited if the victim does not consent to the conduct in the question or raise any objection thereto.

(f) Sexual harassment shall also include unwelcome sexual behavior (whether directly or by implication) as:



- (i) Loaded comments having sexually offensive connotations.
- (ii) Remarks or jokes having sexually offensive connotations.
- (iii) Obscene, e-mails or phone calls having sexually offensive connotations.
- (iv) Sexual physical gesture, lewd stares;
- (v) Physical contact having sexually offensive connotations and stalking;
- (vi) Exhibition / displaying / showing pornography;
- (vii) Making of sounds having sexually offensive connotations.
- (viii) Relating sexually explicit anecdotes;
- (ix) Threat to take vindictive action for denial of sexual favours;
- (x) Singing lewd songs;
- (xi) Any act or behavior that is sexual, based on sex or on sexual orientation, towards person, that has the aim or effect of compromising that person's right to dignity, equality in employment, and to working condition that are respectful of that person dignity, their moral or physical integrity, their right to receive ordinary services offered to the public in full equality.
- (xii) The act or behavior that can notably take the form of pressure, insults, remarks, jokes based on sex, touching assault, all sexual exhibitionism, all unwelcome implicit or explicit sexual solicitations, all threats or all sexual blackmail.
- (xiii) Any pressure, constraint of sexual nature carried out through words, gesture, threats, promises, writing drawings, sending of objects, all sexually discriminatory remarks, targeting a person during a hire or while conducting her professional activity.
- (xiv) Any behavior is unacceptable if :  
Such conduct is unwanted, unreasonable and offensive to the recipient  
a person's rejection of, or submission to, such conduct on the part of employers or workers (including superiors or colleagues) is used explicitly or implicitly as a basis for a decision which affects that person's access to vocational training, access to employment, continued employment, promotion, salary or any other employment decision; and/or Such conduct creates an intimidating, hostile or humiliating work environment for the recipient; and other such





conduct may, in certain circumstances, be contrary for the principles of equality before the law within the meaning of Articles 14,15,16 and 21 of the Constitution of India.

- (xv) Act or conduct creating sexually hostile and intimidating environment.

## **2. Who Can Make a Complaint?**

A person who is:

- (i) a student of Manav Rachna University (MRU)
- (ii) an employee of MRU
- (iii) any other member of the University Academic Bodies / Committees / person or persons holding administrative and consultative position in the University etc.
- (iv) an applicant seeking admission in any course offered by MRU. Subject to the condition that:

Where a complaint instituted before the Complaint Committee is found to be frivolous or vexatious, the Committee shall, for reasons to be recorded in writing, dismiss the complaint and make an order that the complaint shall pay to the opposite party a fine to be imposed at the discretion of the Vice Chancellor.

## **3. Complaints Committee:**

It shall be constituted by the Vice Chancellor, comprising five members. At least 50% of the members of the Committee shall be women. The Chairperson of the Complaints Committee will be senior lady professor nominated by the Vice-Chancellor. The Committee may co-opt any member(s) as per the requirement.

## **4. Complaint Committee to be Inquiry Authority**

Complaint Committee set up in the University for inquiring into such complaints shall be deemed to be the Inquiring Authority appointed by the Competent Authority for the purpose of these regulations. Complaint Committee, unless a separate procedure has been prescribed, shall hold the inquiry as far as practicable in accordance with the procedure laid down in the Regulation.

## **5. Jurisdiction**

All members of staff; teaching or non-teaching and all students whether studying in Manav Rachna University Campus or in any other constituent Unit are subject



to the jurisdiction of this Regulation. The territorial jurisdiction of the Complaints Committee shall extend to act of sexual harassment committed in the Manav Rachna University Campus. The campus shall include hostels, guest houses, car-parks and other properties owned, maintained or under the control of the MRU. In the case of the sexual harassment of the third person by a student or staff of MRU or of any constituent Unit, the Complaint Committees may in its discretion provide information regarding the student or staff.

#### **6. Procedure of Enquiry:**

- (a) Any person aggrieved shall prefer complaint before the complaint committees at the earliest point of time and in any case within 15 days from the date of occurrence of the alleged incident.
- (b) The complaint shall contain all the material and relevant details concerning the alleged sexual harassment including the names of contravener and the complaint shall be addressed to the complaint committees.
- (c) If the complainant feels that she cannot disclose her identity for any particular reason, the complainant shall address the complaint to the Vice Chancellor and hand over the same in person or in a sealed cover. Upon receipt of such complaint the Vice Chancellor shall retain the original complaint with himself / herself and send to the Complaint Committee a gist of complaint containing all material and relevant details, other than the name of the complainant and other details, which might disclose the identity of the complainant.
- (d) The Complaint Committee shall take immediate necessary action to cause an enquiry to be made discreetly or hold an enquiry, if necessary.
- (e) The Complaints Committee shall thereafter submit its report to the Vice Chancellor recommending the penalty to be imposed.
- (f) Vice Chancellor on receipt of the report from the Complaint Committee shall after giving an opportunity of being heard to the persons complaint against, confirm with or without modifications the penalty recommended after duly following the prescribed procedure.
- (g) In cases, pertaining to the officer holding the posts of Assistant Registrar / Assistant Professors and above, the case shall be submitted to the Board of Management of the University, which shall with or without modification confirm the penalty recommended.





## **7. Disciplinary Action:**

Where the conduct of an employee amounts to misconduct in employment as defined in the rules, appropriate disciplinary action in accordance with the relevant rules shall be initiated.

Where the conduct of a student amounts to misconduct, appropriate disciplinary action in accordance with the relevant ordinance on 'Maintenance of discipline amongst students' shall be initiated by the competent authority.

## **8. Third Party Harassment**

Where sexual harassment occurs as a result of an act or omission by any third party or outsider, the employer and the person In-charge shall take all steps necessary and reasonable to assist the affected person in terms of support and preventive action.

Nothing contained in this Ordinance shall prejudice any rights available to the student / employee or shall prevent from seeking any legal remedy under the National Commission for Woman Act 1990, Protection of Human Rights Commission Act 1993 or any other law in force.

Where such conduct amounts to specific offence under the Indian Penal Code or under any other law in force, the University shall initiate appropriate action in accordance with the law in force.

## **9. Annual Report**

The Complaints Committee shall prepare an annual report giving a full account of its activities during the previous year and submit the same to the Vice-Chancellor.

Registrar  
Manav Rachna University



**MRU (Purchase of Goods & Services) Regulation, 2016**

**1: Short title, commencement & Application**

- (i) These Regulation shall be called "MRU (Purchase of Goods & Services) Regulation, 2016"
- (ii) It shall come in force w.e.f 27.10.2016

**2: Definitions :**

- (i) **"Sanctioning Authority/Competent Authority"** means the Vice Chancellor, Vice president, Chancellor or any other officer of the university vested with financial powers to sanction expenditure.
- (ii) **"Purchase Committee"** means the committee/s as constituted by the competent authority for all purchases of the University.
- (iii) **"Technical Purchase Committee"** means the Committee/s as constituted by the competent authority for all purchase above Rs.25 lakhs.
- (iv) **"Purchase Officer"** means an officer of Stores & Purchase Department of the University Authorized to make purchases and process the proposal of purchase, place purchase orders and send the bills to Accounts for payment.
- (v) **"Budget"** means an allocation made by the competent authority in a particular financial year.
- (vi) **"Goods & Services"** means and includes all articles, material, commodities, livestock, general furniture/ laboratory furniture, fixtures, raw material, spares, instruments, machinery, equipment, chemicals, solvents, gases, glassware, stationery, liveries, and any other item meant for Research & Development.
- (vii) **"Annual Maintenance Contracts"** means annual maintenance contract for goods and equipment purchased or otherwise acquired for the use of the University, custom clearance & cargo handling & Consolidation services, replacements/repairs/ up gradation Specific Scientific & Technical Services viz, Professional consultant services, Computer & Network management, Software & web design Development services, Special Storage, Communication facilities

Words and expression used herein not defined but defined in the Act shall have the same meanings as are assigned in the Regulation

**3. Buying Principles** -Every officer delegated with the financial powers of procuring goods shall have the responsibility and accountability to bring efficiency, economy, transparency in matters relating to procurement and promotion of competition in procurement.

The procedure to be followed in making procurement must conform to the following

- (a) The specifications in terms of quality, type etc., as also quantity of goods to be procured, should be clearly spelt out keeping in view the specific purpose/objective/needs of the Labs,





colleges & schools The specifications so worked out should meet the basic needs of the Labs./ Colleges without including superfluous and non-essential features, which may result in unwarranted expenditure. Care should also be taken to avoid purchasing quantities in excess of requirement to avoid inventory carrying costs.

- (b) Quotation should be invited by following a fair, transparent and reasonable procedure.
- (c) The procuring authority should be satisfied that the selected offer meets the requirement in all respects.
- (d) the procuring officer should satisfy himself that the price of the selected offer quotation is reasonable and consistent with the quality required.
- (e) At each stage of procurement, the procuring officer must place on record, in precise terms, the considerations which weighed with it while taking the procurement decision.

**4. Mode of procurement :** The different modes of procurement shall be as hereunder:

**4(i) . Purchase of goods without quotation** - Purchase of goods up value of Rs. 2 lakh (Rupees Two lakh) only on each occasion in case of R&D related items and for non R&D related items up to the value or RS.20000/- only on each Occasion may be made without inviting quotations or bids on the basis of a certificate to be recorded by the officers/official concerned purchasing the goods.

**4(ii). Purchase of goods through Local Purchase Committee/s-** Purchase of goods costing above Rs. 2,00,000 to Rs. 5,00,000 (Rupees five lakh) only on each occasion in case of R&D related items and for non R&D related items up to the limit of Rs.20000/ to Rs. 2 Lakh, may be made on the recommendations of a duly constituted Local Purchase Committee consisting of three members of an appropriate level to be nominated by the vice Chancellor/ Director/ Ho Ds/.The committee/s will survey the market to ascertain the reasonableness of rate, quality and specifications and identify the appropriate supplier. Before recommending placement of the purchase order, the members of the Committee will jointly record a certificate.

**[Note:** R&D related items shall mean those items which are to be purchased under approved projects with sanctioned budget and are directly used in the procesS of discovering new knowledge/technology or upgrading existing knowledge/Technology and skills about products, processes, and services and to create new or improved products, processes and services which have been envisaged by the faculty members/ project leader in the Labs/colleges.

**4 (iii) Purchase of Goods/Store through Limited Tenders:** The Goods/stores priced above Rs. 2 Lakh but below Rs.10 Lakh & 5 Lakh and above but below RS.25 lakh (in case of R&D related items) shall be procured through Limited Tender. For the purpose, Sores & Purchase Department will notify the requirement of goods on the university website specifying the date by which bids are to be submitted by the vendors. On receiving the bids, the purchase Committee Technical purchase committee shall scrutinize the tenders/bids and make its recommendation for procurement. Based on the recommendations of the committee, the S&P shall initiate action to seek approval of the Competent Authority and placing order to the selected vendor.

**4 (iv) Purchase of Goods/Store goods/Store through open Tender:** The Goods/Stores priced over Rs. 10 lakh and 25 lakh (in case of R&D related items) shall be procured through open tender for which



requirement store shall be published in one local newspaper along with website of the university to ensure competitive price. On receiving the bids , same procedure as mentioned in case of limited tender shall be followed by the stores & purchase Deptt for procurement.

**4 (v). Rate Contract :** The goods which are required at regular intervals, the MRIU shall enter into Rate Contract with suppliers by inviting sealed quotations through limited tender enquiry and finalize the same which shall be normally valid for a year from the date of issuance of the letter. After expiry of the one year period, the RC will be renewed further for one year or as required or the process for entering into a fresh RC shall be initiated by the Stores & Purchase Deptt.

5. Except in cases covered under rule 6 above all the Departments/stores Deptt will resort to tendering process such as;

- (a) Limited tender enquiry
- (b) Single tender enquiry
- (c) Proprietary Items

**6. Two bid systems** - For purchasing R&D equipment and material etc., of complex and technical nature, costing Rs. 5 lakh and more bids may be invited in two parts:

- (a) Technical bid consisting of all technical details along with commercial terms & conditions and EMD, wherever applicable.
- (b) Financial bid indicating item -wise price for the items mentioned in the technical bid.

**7. Bidding Document** - All tenders may be obtained as per bidding document

**8. Bid Security/EMD** Bid Security may be taken in cases for equipment/material costing above 25 lakhs. The Sanctioning authority, in the rare cases may, waive off the condition of Bid security especially for highly reputed Companies.

**9. Performance security** - (PS) May normally be taken within 21 days after the award of the contract from the successful bidder within the range of 10% (ten Percent) of the order value for a period of one year beyond 60 days of warranty period as the **in case of Goods Costing Rs.5 lakh and above** may be for due performance of /decreased of the contract. or The Performance security may be increased authority i.e., Vice President/ Senior Vice President.

**10. Advance payments to suppliers in exceptional circumstances-** The issue making advance payment to the parties shall be considered keeping all aspect of market environment and safeguards in mind and limited to the amount as agreed between the Party and MRIU.

**11. Transparency, competition, fairness and elimination of arbitrariness in the procurement process-** All purchase be made in a transparent, Competitive and fair manner, to secure best value for money Accordingly the text of the bidding document shall be self- contained and comprehensive without any ambiguities.

**12. Buy-Back Offer-** When it is decided with the approval of the competent authority to replace an existing old item(s) with a new and better version, the department may trade the existing old item while purchasing the new one. For this purpose, a suitable clause is to be incorporated in the bidding document so that the prospective and interested bidders formulate their bids accordingly.





Depending on the value and condition of the old item to be traded, the time as well as the mode of handing over the old item to the successful bidder should be decided and relevant details in this regard suitably incorporated in the bidding document. Further, suitable provision should also be kept in the bidding document to enable the purchaser either to trade or not to trade the item while purchasing the new one.

### **13. Miscellaneous**

13.1 The operation of the above Rules shall be in super cession of all Existing rules and instructions

13.2 The Rules may be reviewed at suitable intervals for further Modifications.

13.3 The Chancellor/ Vice President may also relax any of the provisions of these Rules.

For Manav Rachna University



(Dr. K. Singh  
Registrar

**Manav Rachna University, Faridabad.****Research Projects undertaken by faculty and Seed Money given for the Projects****Financial Year (2017-18)**

| S.No. | Name of Faculty Members                      | Department             | Projects Name                                                                                                                                                                  | Total  |
|-------|----------------------------------------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| 1     | Dr. Kiran Gupta                              | Education & Humanities | Electronic Classroom Design and Implementation (ECDI) for Student-Centered Active Learning Environment with Upside-down Pedagogies (SCALE UP)                                  | 165500 |
| 2     | Dr. Sudhish Kumar Shukla                     | Chemistry              | Development of Advanced Absorbent Polymers for Sustainable Plant Protection                                                                                                    | 220000 |
| 3     | Dr. Megha Bansal                             | Chemistry              | Functionalization of metalloorganic compounds with magnetic nanoparticles for pollutant adsorption and degradation                                                             | 208500 |
| 4     | Mr. Joginder Singh<br>Mr. J.P. Sharma        | Mechanical             | Design, Analysis, Manufacturing and Physical Testing of the Spur Gear with the Material of Carbon Fiber Reinforced Composites                                                  | 202000 |
| 5     | Ms. Manpreet Kaur<br>Dr. Hardeo Kumar Thakur | CST                    | Artificial Intelligence based clinical Decision Support System for Cardiovascular diseases                                                                                     | 224000 |
| 6     | Dr. Mrinal Pandey                            | CST                    | AI based smart system for the identification of diseases in Rice Plants                                                                                                        | 204000 |
| 7     | Dr. Dinesh Kumar Sharma                      | Physics                | Development and performance evaluation of Nano-materials based algal-solar distillation system of for effective treatment of wastewater                                        | 185156 |
| 8     | Dr. Mrinal Pandey                            | CST                    | AI for Agriculture (Pilot Deployment at selected AMC's of Telangana for Selected crops)                                                                                        | 249709 |
| 9     | Dr. Babita Sharma                            | Education & Humanities | SDG aligned dimension pertaining to Labour, Livelihood & Employment as mandated by the mentioned University                                                                    | 190000 |
| 10    | Dr. Pragati Chauhan                          | Management             | Elderly Care Framework in Contemporary India: Socio-Demographic, Entrepreneurial and Policy Implications                                                                       | 150246 |
| 11    | Dr. Seema Sharma                             | Education & Humanities | Impact of Meditation and Art related Engagement for Mental Health with the application of Bio-Chemical Processes and Cognitive Neurosciences using Machine Learning techniques | 182400 |
| 12    | Dr. Jyoti Pruthi                             | CST                    | An Intelligent System for Managing & Controlling Covid and similar Pandemic                                                                                                    | 257000 |
| 13    | Ms. Meena Kapahi<br>Dr. B.M. Bahal           | Mechanical<br>Physics  | S.W. Rose Bin                                                                                                                                                                  | 41000  |





| S.No.        | Name of Faculty Members | Department | Projects Name                                                                                                                             | Total          |
|--------------|-------------------------|------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| 14           | Dr. Haider Abbas        | Physics    | Ultra-low Emittance and monoenergetic electron beam generation: A theoretical and simulation study on laser-plasma wakefield acceleration | <b>195000</b>  |
| 15           | Ms. K. Deepa            | ECE        | IoT based Energy Management on Smart Grids                                                                                                | <b>208300</b>  |
| 16           | Ms. Bharti Jha          | CST        | DeepDPM: A deep learning approach based on deterministic phase masks in DRPE for medical image encryption                                 | <b>278700</b>  |
| 17           | Dr. Sachin Lakra        | CST        | Simulation and Analysis of Manufacturing Methods of Mobile Phones and Improving Methods of Managing Mobile Phone E-Waste                  | <b>238000</b>  |
| 18           | Ms. Mamta Arora         | CST        | Intelligent System for diagnosis cervical cancer                                                                                          | <b>244553</b>  |
| <b>Total</b> |                         |            |                                                                                                                                           | <b>3644064</b> |

