AICTE MANDATORY DISCLOSURES

<table>
<tr><td>1.</td><td>Name of the Institution :</td><td>Manav Rachna International Institute of Research and Studies (MRIIRS)
Sector-43, Aravali Hills, Delhi-Surajkund Road, Faridabad
Phone no. +91-129-4259000 (30 Lines)
Email: info@mrei.ac.in</td></tr>
<tr><td>2</td><td>Name and address of the Trust/ Society/ Company and the Trustees
Address including Telephone, Mobile, E-Mail</td><td>Manav Rachna International Institute of Research and Studies Trust, a Trust registered under the Indian Trust Act, 1882 vide certificate of registration No. 8480 dated 07.02.2018 issued by Sub-Registrar, Faridabad.

Address: 5-E-1A, BP, NIT Faridabad-121001
Ph.No. 0129-4198600

Composition of the Trust
<table>
<tr><th>S. No.</th><th>Name</th><th>Address</th><th>Designation</th><th>Background</th></tr>
<tr><td>1</td><td>Dr. Prashant Bhalla</td><td>1073, Sector-15, Faridabad, Haryana</td><td>President</td><td>Educationist</td></tr>
<tr><td>2</td><td>Dr. Amit Bhalla</td><td>1073, Sector-15, Faridabad, Haryana</td><td>Secretary</td><td>Educationist</td></tr>
<tr><td>3</td><td>Mr. Atul Kalra</td><td>H. No. F-1172, C.R. Park, New Delhi</td><td>Treasurer</td><td>Service</td></tr>
<tr><td>4</td><td>Mrs. Satya Bhalla</td><td>1073, Sector-15, Faridabad, Haryana</td><td>Trustee</td><td>Educationist</td></tr>
<tr><td>5</td><td>Dr. M.M. Kathuria</td><td>H. No. 2197, Sector-9, Faridabad, Haryana</td><td>Trustee</td><td>Physician & Educationist</td></tr>
</table></td></tr>
<tr><td>3</td><td>Name and Address of the Vice Chancellor/ Principal/ Director :</td><td>Dr. Sanjay Srivastava
Manav Rachna International Institute of Research and Studies,
Sector-43, Aravali Hills, Delhi-Surajkund Road, Faridabad
Phone no. 0129-4198322, Mobile No. : 9560299099
Email: vc@mriu.edu.in</td></tr>
<tr><td>4</td><td>Name of the affiliating University</td><td>NA, being Deemed to be University</td></tr>
</table>

5. Governance

The governance of the university is aligned to the mission and vision of the university. Governance standards prescribe policies and practices of the institute in the matter of planning human resources, recruitment, training, performance appraisal, financial management and the overall role of leadership in institution building.

The leadership provides clear vision and mission to the institution. The functions of the institution and its academic and administrative units are governed by the principles of participation and transparency. Formulation of development objectives, directives and guidelines with specific plans for implementation by aligning the academic and administrative aspects improve the overall quality of the Institutional provisions.

For financial governance, there are established procedures and processes for planning and allocation of financial resources. The institute develops further strategies for mobilizing resources and ensures transparency in financial management. The income and expenditure of the institution is subjected to regular internal and external audit.

The governance system and standards of the university are periodically reviewed and revised in the light of changing stakeholders' expectations, best practices and regulatory requirements.

Governing Bodies:

As per UGC Guidelines (2016) for Deemed to be Universities, the following Statutory Bodies are in position at MRIIRS and regular meeting are held as per the mandate of each committee:

(i) Board of Management
(ii) Academic Council
(iii) Finance Committee
(iv) Planning and Monitoring Board
(v) Board of Faculties
(vi) Board of Studies
(vii) Internal Quality Assurance Cell (IQAC)

All details are available on University website.

The current constitutions of all the statutory bodies are given below:

Board of management

List of Members of Board of Management:

S.No	Name	Status
1	Dr. Sanjay Srivastava, Vice Chancellor	Chairperson
2	Dr. Amit Bhalla,Vice President, MREI	Member
3	Dr. M.M.Kathuria, Trustee	Member
4	Sh. Atul Kalra, Director Administration, MREI	Member
5	Sh. Navdeep Chawla, Industrialist	Member
6	Sh. M.K.Miglani, IAS (Retd), Former VC of KUK & HAU Hissar	Member
7	Dr. N.C.Wadhwa, DG MREI	Member
8	Dr. D.S.Kumar, Former Prof. PEC, Chandigarh & Director CITM- Faridabad	Member
9	Dr. Naresh Grover Pro-Vice Chancellor	Member
10	Dr. Arundeep Singh, Dean-FDS	Member
11	Dr. H.C.Rai, Dean-FET	Member
12	Dr. Anupama Rajput, Prof,Deptt.of Chem, FET	Member
13	Dr. Sunita Virmani, Associate Prof. Deptt. of CSE, FET	Member
14	Prof Nupur Prakash, Former Vice chancellor, Indira Gandhi Delhi Technical University & Professor University School of ICT, EFR 206, Block E ,GGS Indraprastha University, sector 16 C, Dwarka , Delhi	Spl Invitee
15	Sh. R.K.Arora, Registrar	Secretary

Academic Council

List of Members of Academic Council

S.No	Name	Designation	Status in the AC
1	Dr. Sanjay Srivastava	Vice–Chancellor	Chairperson
2	Dr. Naresh Grover	Pro Vice-Chancellor	Member
3	Dr. Pardeep Kumar	PVC & Dean-FET	Member
4	Dr. Anita Chaudhary,IAS (Retd.)	T – 28/11, Phase – 3,DLF, Near Sai Baba Mandir, Gurgaon-122002,Email anitach123@hotmail.com	External Member
5	Dr. A.Murli.M.Rao	Head of Computer Applications , INGOU, New Delhi-110068 Email.murli@ignou.ac.in	External Member
6	Dr. Nasib Singh Gill	Head of Deptt of Computer Sc & Applications ,M.D.U, Rohtak124001(H.No 1104, Sector-1, Huda, Rohtak) Mobile No 09050805136, 09355627736, 0126933202, Email ID nasibgill@gmail.com, nasib.gill@mdurohtak.ac.in	External Member
7	Dr. S.K.Goel	Director Star Ware Ltd, Ballabgarh	External Member
8	Dr. Pawan Kumar Dahiya	Prof. Deptt. of ECE and Consultant Academics, DCRUST, Murthal	External Member
9	Dr. D.S.Kumar	Former Professior PEC Chandigarh and Director-CITM Faridabad(UNIT 002 Tower A3 World Spa (East). Sector-41, Gurugram	External Member
10	Dr. Chavi Bhargava Sharma	ED & Dean-FBSS	Member
11	Dr. Moattar Raza Rizvi	Dean-FAHS	Member
12	Dr. Nand lal Dhameja	Dean -FMS	Member
13	Dr. S.S.Tyagi	Dean-FCA	Member
14	Dr. Monoka Goel	Dean-FCBS	Member
15	Dr. Arundeep Singh	Dean-FDS	Member
16	Dr. Maithili Ganjoo	Dean-FMeH/Head of Deptt of JMC, FMeH	Member

17	Dr. S.K.Saluja	Dean-FHM	Member
18	Dr. Ashim Aggarwal	Vice Principal- MRDC	Member
19	Dr. Devender Vashisht	Head of Deptt. of Auto, FET	Member
20	Dr. Jyoti Chawla	Head of Deptt. of Applied Sc, FET	Member
21	Dr. Sunita Bansal	Head of Deptt. of Civil, FET	Member
22	Dr. Supriya P Panda	Head of Deptt. of CSE, FET	Member
23	Dr. Tapas Kumar	Head of Deptt. of CSE(IBM), FET	Member
24	Dr. Leena G.	Head of Deptt. of EEE, FET	Member
25	Dr. Manoj Nayak	Head of Deptt. of ME, FET	Member
26	Dr.Arunangshu Mukherjee	Head of Deptt. Earth Sc & Env, FET	Member
27	Dr. Sarita Sachdeva	Head of Deptt. of BT, FET	Member
28	Air Cmde Devender Sharma	Head of Deptt. of Aero, FET	Member
29	Dr. Abhiruchi Passi	Head of Deptt. of ECE, FET	Member
30	Dr.Divya Sanghi	Offg Head of Deptt. of N & D, FAS	Member
31	Dr. Jayender Verma	Offg Head of Deptt. of Commerce,FCBS	Member
32	Dr. Gautam Srivastava	Head of Deptt of Business Studies,FCBS	Member
33	Dr. Shivani Vashist	Head of Deptt. of English, FMeH	Member
34	Dr. Shaveta Bhatia	Head of Deptt. of Computer Appl., FCA	Member
35	Dr. Deepti Dabas Hazarika	Head of Deptt. of Mgmt. Studies, FMS	Member
36	Ms. Ritika Singh	Head of Deptt. of HM, FMS	Member
37	Dr. Nimai Das	Head of Deptt. of Economics, FBSS upto 31.12.2020	Member
38	Dr. K.M.Tripathi	Head of Deptt. of Psy, FBSS	Member
39	Dr. Anandjit Goswami	Head of Deptt. of Social & Political Studies, FBSS	Member
40	Prof. Sanjay Kumar Surya	Head of Deptt. of Arch & Design,FAD	Member
41	Dr. Nandani Srivastava	Director- CDP	Member
42	Dr. Amit Seth	Prof.Deptt. of Mgt, FMS	Member
43	Dr. Geeta Nijhawan	Prof. Deptt of ECE, FET	Member

44	Dr. Joseph Alexanand Davis	Prof.Deptt. of BT, FET	Member
45	Dr. Suresh Kumar	Prof. Deptt of CSE,FET	Member
46	Dr. Devi Singh	Prof. Deptt of Applied Sc,FET	Member
47	Dr. Rashmi Agarwal	Prof. Deptt of CA, FCA	Member
48	Dr. Rakesh Kumar Arya	Prof. Deptt of BS,FCBS	Member
49	Dr. Anupama Pankaj	Assoc. Prof, Deptt. of CA,FCA	Member
50	Dr. Sarvesh Kumar	Assoc. Prof, Deptt. of Physics, FET	Member
51	Mr. Arun Vashista	Asstt. Prof. Deptt of Business Studies, FCBS	Member
52	Ms. Shweta Sharma	Asstt. Prof. Deptt of CSE, FET	Member
53	Mr. N. K. Sharma	Controller of Examinations	Permanent Invitee
54	Dr. N.C. Wadhwa	DG-MREI	Spl Invitee
55	Col ® Sanjeev Gupta	Director-FAD	Spl Invitee
56	Dr. Suprabhat Roy Choudhary	Director- FHM	Spl Invitee
57	Dr. Indu Kashyap	Prof, Deptt. of CSE,FET	Spl Invitee
58	Dr. Parul Gandhi	Prof, Deptt. of CA,FCA	Spl Invitee
59	Sh. R.K.Arora	Registrar	Secretary

Planning & Monitoring Board:

S.No	Name	Designation	Status in the P&M
1	Dr. Sanjay Srivastava	Vice – Chancellor	Chairperson
2	Dr. N.C.Wadhwa	DG-MREI	Spl Invitee
3	Dr. Sandeep Grover	Prof Mech Engg & Dean ,YMCA, Faridabad (H.No 2525, Sec-16, Faridabad),	Member
4	Prof. K.Subramanian	IEEE Delhi Section (Past Chair) & Chairman, NC, National Execom Computer Society of India, New Delhi	Member

5	Mr. Vikram Mattoo	General Manager, Mitsubishi Electric India Pvt Ltd, DLF Cyber Green 2nd Floor, Gurugram, Mobile No: 9910768700 Email ID : vikram.mattoo@asia.meap.com	Member
6	Dr. Naresh Grover	Pro Vice-Chancellor	Member
7	Dr. Pardeep Kumar	Pro Vice Chancellor/Dean-FET	Member
8	Dr. Chavi B. Sharma	Dean – FBSS	Member
9	Dr. Arundeep Singh	Dean-FDS	Member
10	Dr. S.S.Tyagi	Dean-FCA	Member
11	Dr. Deepti Dabas Hazarika	Director-FMS	Member
12	Sh. R.K.Arora	Registrar	Secretary

Finance Committee:

Vice Chancellor

- Dr. Sajay Srivastava, Vice – Chancellor,

Pro-Vice Chancellor

- Dr. Naresh Grover, Pro-Vice – Chancellor

A person nominated by the Society/Trust

- Dr. M.M. Kathuria, Member

Two nominees of the Board of Management

- Dr. Amit Bhalla, Member
- Sh. Amit Kumar, Member

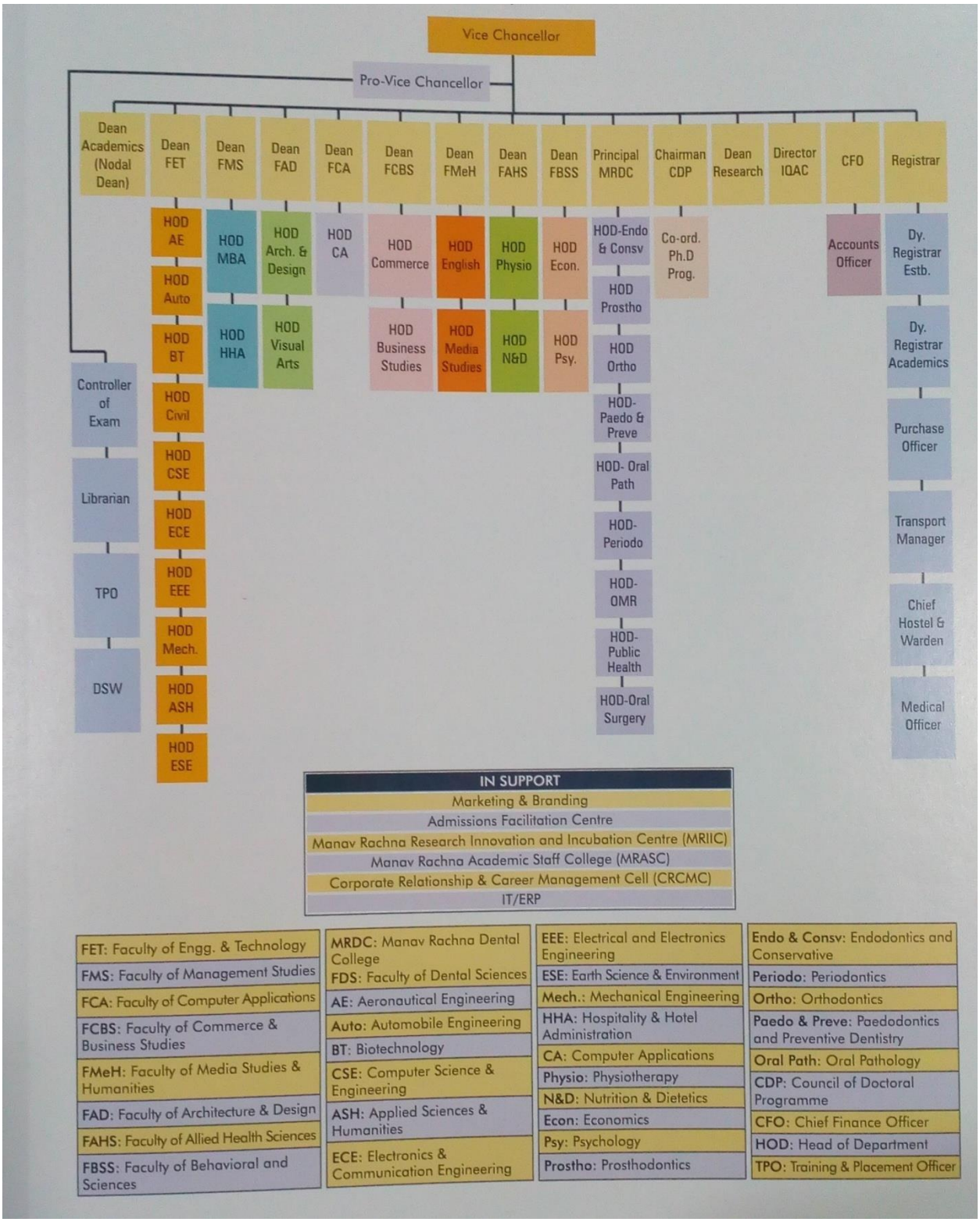
Finance Officer Secretary

- Sh. Santosh Kumar Jha, Secretary

Meetings of Board of Management and Academic Council held during year 2019 & 2020

No. of Meeting.	Dates of meetings of Board of Management held during last year	Dates of meetings of Academic Council held during last year
1	25.01.2019	29.03.2019
2	20.03.2019	05.07.2019
3	20.07.2019	11.10.2019
4	27.09.2019	02.12.2019
5	18.01.2020	10.01.2020
6	25.04.2020	21.04.2020
7	15.09.2020	08.09.2020

Organizational chart:



- Nature and Extent of involvement of Faculty and students in academic affairs/improvements

The university encourages the culture of participative management. University has the culture of delegation of authority and all efforts are made to bring in the participation of faculty and administration at various levels so that all are associated in the development of the university. In the various high-level meetings, faculty in various cadres is associated so that a sense of ownership is promoted. The spirit of participation is encouraged and promoted from top to the bottom so that all employees feel consulted and involved in the development of the university. At the departmental level teachers at different cadres and the students are duly represented in the departmental committees and following Institutional level committees for various governance functions pertaining to academics, research, students support, grievance redressal etc. have been formed for smooth functioning of various aspects of administration, and governance:

- Internal Coordination Committee (ICC)
- Enterprise Social Responsibility Committee
- Research Promotion Group
- Student Welfare Committee
- Disadvantage Groups Welfare Committee
- Women Cell
- Prevention of Sexual Harassment Committee
- Library Advisory Committee
- Faculty Development Cell
- Feedback on Campus Life
- Feedback on Curricula
- Ph.D Quality Enforcement Committee/DRB
- Internal Complaints Committee
- Institutional Ethics Committee
- International Student Welfare Committee
- Students Grievance Redressal Committee
- Internal Administrative Audit Committee
- Discriminating Complaints Committee (SC/ST)
- Gender Sensitizing Cell

Each committee is chaired by a senior functionary and is coordinated by the member coordinator. Membership to each committee includes internal and external stakeholders.

Besides this there are Faculty in-charges at the department level to take care of following various aspects of academics, co-curricular, extra-curricular activities with their well-defined roles and responsibilities:

- Programme Coordinator
- Course Coordinators
- Students' Mentors
- Training and Placement
- Time-Table and ERP (Academic module)

- Website
- Students Welfare
- Examination and Results
- Research and PhD programme

The academic responsibilities and decision- making in the department are facilitated by the Board of Faculty and Board of Studies constituted as per UGC guidelines

Students are represented at various levels:

- As Class Representatives who are the members of the departmental level academic committees to take regular feedback
- As members of IQAC
- Students Placement Coordinators
- As members of Students Grievance Committee
- As members of Anti Ragging Committee
- Students Coordinators of various Clubs and Societies of the Institution
- As members of Students Welfare Committee
- Students Coordinators and volunteers for various co-curricular and extra-curricular events like conferences, workshops, symposia, technical fests, cultural fest, competitions. and many more co-curricular and extra-curricular

- Mechanism/ Norms and Procedure for democratic/ good Governance

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

The department is progressively inculcating a matrix organization structure, with the intent of developing thought leaders and area experts.

The key functionaries of the department are the Dean and the Head of the Department.

However, a democratic, participatory approach to decision- making is followed.
Furthermore the institute website, admission brochure as well as notice boards all over the institute provide key information to all the stakeholders. The updated information is clearly displayed and communicated about the following:
A. Rules & Regulations
B. Names of various Grievance redressal Committees
C. Information about the members of the Grievance Redressal Committees.
D. The contact details and emergency numbers.

- Similarly the information is shared with the students at the time of induction programme at the beginning of each academic session.
- Regular & Operational information is communicated to the faculty, staff and students through Notice Boards and emails.
- Mobile communication is also maintained with various student groups.

Faculty appointments are strictly as per prevailing norms, as amended from time. There is a Selection Committee for making recommendations to the Board of Management for appointment to the posts of Professors, Associate Professors, Assistant Professors and Lecturers
and such other posts as may be prescribed in accordance with the UGC Regulations on Minimum Qualifications for appointment of Teachers and other Academic Staff in Universities and colleges and Measures for the Maintenance of Standards in Higher Education, 2010/2016 as amended from time to time.

For Employees transparency has been maintained through following measures:

- Well documented rules
- Display of relevant rules on university website: LTC Rules, TA/DA Rules, Purchase Rules, Anti Harassment Rules, Housing allotment rules.
- Service Rules
- Issue of salary slips and deposit of salary in banks
- Maintenance of proper service record through individual's personal files

The university ensures the publicity and transparency in the admission process. The publicity for admissions is ensured by advertizing notifications for admission to various programmes, generally in the month of February or March, through National, local newspapers and electronic media as well as uploading the detailed information on the university website www.mriu.edu.in. Admission portal of the University website provides all significant admission related information with regards to programmes being offered, eligibility criteria, preparation of merit list for admission to various programmes, fee structure, freeship/scholarship policies, admission calendar, academic calendar, conduct rules etc along with all other relevant details. The Admission Brochure, Admission Forms, Admission Notifications etc are also uploaded on university website.

- Student Feedback on Institutional Governance/ Faculty performance

Feedback from Stakeholders is taken regularly through the following feedback forms. The feedbacks are duly analysed and appropriate action is taken wherever required.

Manav Rachna International Institute of Research & Studies

(Deemed to be University under Section 3 of the UGC Act, 1956)

(NAAC Accredited 'A' Grade)

Sector-43, Delhi-Surajkund Road, Faridabad.

Student Feedback

1. Name: **2. Roll No:**

3. Program: **4. Batch:**

5. Semester: **6. CGPA till present semester:**

7. Institutional Email Id: **8. Phone No.:**

S.No.	Please rate the following	Rating				
		Outstanding	Very Good	Good	Average	Below Average
A.	**Feedback on curriculum**					
1	Suitability of present curriculum towards program					
2	Relevance of courses taught in terms of futuristic technologies					
3	Technical and soft skills acquired for multidisciplinary real life situations					
4	Balance between theory and lab based courses					
5	Aptness of training / projects & research work undertaken					
6	Pedagogical initiatives (Effective use of ICT Tools)					
7	Availability of learning resources (Library, e-contents)					
8	Infrastructure (Class rooms, Labs etc.) for effective curriculum delivery					
9	Academic Flexibility (Choice Based Credit System)					
10	Outcome Based Education & Lifelong Learning					
11	Aptness of examination pattern and evaluation scheme					
12	Competence in critical thinking, problem solving and creativity acquired through curriculum					

13	Slice of industry component / interaction in curriculum					

B. Feedback on generic facilities

S.No.	Please rate the following	Rating				
		Outstanding	Very Good	Good	Average	Below Average
1	Computer & Internet					
2	Health Care					
3	Teaching & Learning support					
4	Mentor-Mentee relation					
5	Administrative support					
6	ERP support					
7	Training & Placement support					
8	Extra-curricular initiatives					
9	Sports					
10	Discipline & Culture					
11	Canteens & Food courts					
12	Hostel (if applicable)					

Highlight your achievements

1.Placement/Higher Studies:

2. Academics:

3. Extra-Curricular :

Suggestion for improvement:

_____

Signature

Date:

Manav Rachna International Institute of Research & Studies

(Deemed to be University under Section 3 of the UGC Act, 1956)

(NAAC Accredited 'A' Grade)

Sector-43, Delhi-Surajkund Road, Faridabad.

Faculty Feedback

1. Name:	**2. Designation:**
3. Department:	**4. Teaching Experience:**
5. Research/Industry Experience:	**6. Field of Specialization:**

S.No.	Please rate the following	Rating				
		Outstanding	Very Good	Good	Average	Below Average
1	Suitability of present curriculum towards program					
2	Relevance of courses taught in terms of futuristic technologies					
3	Overall effectiveness of syllabus in meeting research and industry demands					
4	Balance between theory and lab based courses					
5	Capability of current curriculum to challenge and widen your knowledge and perspective in subject area					
6	Availability of learning resources (Library, e-contents)					
7	Infrastructure (Class rooms, Labs etc.) for effective curriculum delivery					
8	Academic Flexibility(Choice Based Credit System)					
9	Outcome Based Education & Lifelong Learning					
10	Aptness of examination pattern and evaluation scheme					
11	Your involvement in curriculum enrichment					
12	Slice of industry component / interaction in curriculum					
13	Freedom to opt new techniques / strategies in teaching					

Suggestion for improvement: _____

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Signature

Date:

Manav Rachna International Institute of Research & Studies

(Deemed to be University under Section 3 of the UGC Act, 1956)

Grade)

Sector-43, Delhi-Surajkund Road, Faridabad.

Employer Feedback

1. Name: **2. Organization:**

3. Designation: **4. Email Id:**

5. Phone No:

S.No.	Please rate the following	Rating				
		Outstanding	Very Good	Good	Average	Below Average
1	Aptness of university curriculum for the present job.					
2	Relevance of courses taught in terms of futuristic technologies					
3	Technical and soft skills acquired for multidisciplinary real life situations					
4	Balance between theory and lab based courses					
5	Aptness of training / projects & research work undertaken					
6	Outcome Based Education & Lifelong Learning					
7	Competence in critical thinking, problem solving and creativity acquired through curriculum					
8	Slice of industry component / interaction in curriculum					
9	Team Spirit & leadership skills					
10	Relationship with seniors/peers/subordinates					
11	Inclination towards organizational goals					
12	Discipline					
13	Responsible citizen					

Suggestion for bridging industry-academia gap for empowering students job readiness

_____

Reasons for recruiting Manav Rachna students

_____

Signature

Date:

Manav Rachna International Institute of Research & Studies

(Deemed to be University under Section 3 of the UGC Act, 1956)

(NAAC Accredited 'A' Grade)

Sector-43, Delhi-Surajkund Road, Faridabad.

Employer Feedback

1. Name: **2. Organization:**

3. Designation: **4. Email Id:**

5. Phone No:

S.No.	Please rate the following	Rating				
		Outstanding	Very Good	Good	Average	Below Average
1	Aptness of university curriculum for the present job.					
2	Relevance of courses taught in terms of futuristic technologies					
3	Technical and soft skills acquired for multidisciplinary real life situations					
4	Balance between theory and lab based courses					
5	Aptness of training / projects & research work undertaken					
6	Outcome Based Education & Lifelong Learning					
7	Competence in critical thinking, problem solving and creativity acquired through curriculum					
8	Slice of industry component / interaction in curriculum					
9	Team Spirit & leadership skills					
10	Relationship with seniors/peers/subordinates					
11	Inclination towards organizational goals					
12	Discipline					
13	Responsible citizen					

Suggestion for bridging industry-academia gap for empowering students job readiness

Reasons for recruiting Manav Rachna students

Signature

Date:

Manav Rachna International Institute of Research & Studies

(Deemed to be University under Section 3 of the UGC Act, 1956)
(NAAC Accredited 'A' Grade)

Sector-43, Delhi-Surajkund Road, Faridabad.

Alumni Feedback

1. Name: **2. Roll No:**

3. Program: **4. Batch:**

5. Current Organization / Occupation: **6. Designation:**

7. Email Id: **8. Phone No.:**

S.No.	Please rate the following	Rating				
		Outstanding	Very Good	Good	Average	Below Average
1	Suitability of present curriculum towards program					
2	Relevance of courses taught in terms of futuristic technologies					
3	Technical and soft skills acquired for multidisciplinary real-life situations					
4	Balance between theory and lab-based courses					
5	Aptness of training / projects& research work undertaken					
6	Pedagogical initiatives (Effective use of ICT Tools)					
7	Availability of learning resources (Library, e-contents)					
8	Infrastructure (Class rooms, Labs etc.) for effective curriculum delivery					
9	Academic Flexibility (Choice Based Credit System)					
10	Outcome Based Education& Lifelong Learning					
11	Aptness of examination pattern and evaluation scheme					
12	Competence in critical thinking, problem solving and creativity acquired through curriculum					
13	Slice of industry component / interaction in curriculum					

Highlight your achievements

1.Placement/Higher Studies:

2. Academics:

3. Extra-Curricular :

Suggestion for improvement: _____

Signature **Date:**

- **Grievance Redressal mechanism for Faculty, staff and students: Yes**

Grievance Committee for Faculty & Staff:

- Dr. N.C. Wadhwa, Vice-Chancellor & Chairperson
- Dr. M.K. Soni, Pro Vice Chancellor/Proctor, MRIU
- Dr. Naresh Grover, Dean (Acad.)
- Dr.Chavi Sharma, ED & Dean – FBSS
- Dr. Neemo Dhar, Dean-FMeH
- Dr. Sarita Sachdeva, Dean Research
- Dr. Arundeep Singh, Director, MRDC, Spl. Invitee
- Sh. R K Arora- Registrar- Member Coordinator

Student Grievance Committee:

- Dr. M.K.Soni, Pro Vice Chancellor, MRIIRS -Chairperson
- Dr. Chavi Bhargava Sharma, ED & Dean- FBSS
- Sh. Sarkar Talwar, Director Sports
- Sh.Deepak Sharma-Dy.Registrar(Acad.)
- Ms.Gurjeet Kaur Chawla, Associate Prof, FAS& Associate Dean Student Welfare
- Ms. Maisera,Student Coordinator DSW (B-Tech (CSE),4th Semester, FET
- Mr. Chakresh Kumar,Student Coordinator DSW(M.Tech (EEE), 2nd Semester, FET
- Ms.Medhavi Ahuja,Student Representative, FMeHB.A English(Hons),4th Semester, FMeH
- Mr. Amit Chandra, Student Representative, FCABCA, 4th Semester, FCA
- Faculty wise Students Grievance Redressal Committee Members
- Dr. Farhat Mohsin, Asst. Prof, FMS
- Ms. Sonia Duggal, Asst. Prof, FCA
- Dr. Amit Seth, Prof, FCBS
- Ms. Anjali Singh, Asst. Prof, FCBS
- Dr.Preeti Singh, Asst. Prof,FBSS
- Ms.Romica Bhat, Asst. Prof, FMeH
- Dr. Abhishta Sehdev, Asst. Prof, FAS
- Ms. Divya Puri, Asst. Prof, FAS
- Mr. Nida Hasan, Asst. Prof, FAD
- Mr. Nikhil Raina (Co-ordinator International Students)

- **Establishment of Anti Ragging Committee: Yes**

A robust anti ragging mechanism exists in the institution to ensure total ragging free campus with zero tolerance. The following committees have been established for this purpose:

Anti Ragging High Power Committee:

1	**Dr. Sanjay Srivastava, Vice Chancellor**	**Chairman**
2	Dr. M.K. Soni, Pro Vice Chancellor & Dean FAD, MRIIRS	Member
3	Sh. R.K.Arora, Registrar, MRIIRS	Member
4	Dr. Chavi Bhargava Sharma, ED & Dean-FBSS & Dean FMeH, MRIIRS	Member
5	Dr. Naresh Grover, Dean-Acad & Dean FAS, MRIIRS	Member
6	Dr. H.C. Rai, Dean FET, MRIIRS	Member
7	Dr. S.S.Tyagi, Dean, FCA, MRIIRS	Member
8	Dr. S.K. Saluja, Dean-FHM, MRIIRS	Member
9	Dr. Nand Lal Dhamija, Dean-FMS MRIIRS	Member
10	Dr. Geeta Nijhawan, Associate Dean-FET, MRIIRS	Member
11	Dr. Gurdeep Kaur Chawla, Associated Dean Student Welfare, MRIIRS	Member
12	Sh. Atul Kalra, Director, Administration, MRIIRS	Member
13	Dr. Arundeep Singh, Director-Principal, FDS, MRIIRS	Member
14	Dr. Ashim Agrawal, Vice Principal, MRDC	Member
15	Dr. Monika Goel, Director FCBS, MRIIRS	Member
16	Dr. Monika Goyal, Director-FCBS, MRIIRS	Member
17	Dr. Deepti Devas Hazarika, Director – FMS, MRIIRS	Member
18	Dr. Maithili Ganjoo, Director-FMeH, MRIIRS	Member
19	Prof. (Col.) Sanjeev Gupta, Director-FAD, MRIIRS	Member
20	Sh. Deepak Sharma, Dy. Registrar (R&S / Acad.)	Member
21	Dr. Vikram Sharma, University Librarian	Member
22	Sh. Satish Arora, CVO, MRIIRS	Member

23	Dr. Kameshwar Singh, Registrar-MRU	Member
24	Sh. Sabyasachi Sen, GM-IT, MRIIRS	Member
25	Sh. K.S. Mishra, GM Projects, MRIIRS	Member
26	Representative of Deputy Commissioner, Faridabad	Member
27	Representative of Commissioner of Police, Faridabad	Member
28	Sh. T.D.Jatwani, Chairman MCF & HUDA	Member
29	Sh. Anil Jain, Media Representative	Member
30	Ms. Hitesh Gandhi, AR-Academics, MRIIRS	Member Secretary

Quick Reaction Anti Ragging Committee:

- Dr. Naresh Grover, Pro Vice Chancellor, **Chairperson**
- Dr. S. S. Tyagi, Dean-FCA, Member
- Dr. Anita Khosla, HOD-EECE, FET, Member
- Dr. Sushil Pashricha, HOD-BS FCBS, Member
- Dr. Supriya Panda, HOD-CSE, FET, Member
- Dr. Brijesh Kumar, HOD CSE,FET, Member
- Dr. Manoj Nayak, HOD-ME, FET (Officiating), Member
- Dr. Manu Solanki, HOD-BT, FET, Member
- Dr. Moattar Raza Rizvi, HOD-Physiotherapy, FAS, Member
- Dr. Divya Sanghi, HOD-N&D, FAS, Member
- Dr. Sadiqa Abbas, HOD-Civil, FET, Member
- Air CMDE Devender Sharma, HOD-Aero, FET, Member
- Sh. S. K. Surya, HOD-Architecture & Design, FAD, Member
- Dr.Shaweta Bhatia, HOD-FCA, Member
- Dr. Shridhar Kannan, Professor, FDS, Member
- Dr. Maneesh Bhargav, Profesasor, FDS, Member
- Dr. Shivani Vashist, HOD-English, FMeH, Member
- Sh. Manoj Raut, HOD-J&MC, FMeH, Member
- Dr. Vikram Sharma, Librarian, MRIIRS, Member
- Ms. Ritika Singh, HOD-HM, FHM, Member
- Dr. Kapila Chakravarty, Tutor, FDS, Member
- Dr. K. M. Tripathi, HOD-Psychology, FBSS, Member
- Dr. Jyoti Chawla, Professor & HOD ASH, FET, Member
- Dr. Amit Seth, Professor-FMS & Director Admissions, , Member

- Dr. Pratibha Singh, Professor-FAS, Member
- Dr. Dinesh Gautam, Assistant Professor-FMEH, Member
- Dr. Abhishek Chouhan, Associate Professor-FET, Member
- Dr. Rashmi Agrawal, Professor-FCA, Member
- Dr. Anandjit Goswami, Associate Professor & HOD, FBSS, Member
- Dr. Anindita Chaterjee, Professor-FMS, Member

Monitoring Cell (Anti Ragging):

1.	Dr. Naresh Grover, Pro-Vice Chancellor, MRIIRS	**Chairperson**
2.	Dr. Gurjeet Kaur Chawla, Dean-Student Welfare, MRIIRS	Member
3.	Dr. Jayender Verma, HoD-Commerce, FCBS, MRIIRS	Member
4.	Dr. Asim Agrawal, Vice Principal, MRDC	Member
5.	Mr. Ishwar Sharma, DR-Estt.	Member
6.	Dr. Manoj Nayak, HoD- ME, FET, MRIIRS	Member
7.	Dr. Manu Solanki, HoD-BT, FET, MRIIRS	Member
8.	Dr. Jyoti Chawla, HoD-ASH, FET, MRIIRS	Member
9.	Dr. Nimai Das, HOD-Economics, FBSS	Member
10.	Dr. Divya Sangi, HoD-N&S, FAHS, MRIIRS	Member
11.	Sh. S.K. Surya, HoD-Architecture, FAD,MRIIRS	Member
12.	Sh. Manoj Raut, HoD-JMC, MRIIRS	Member
13.	Dr. Shaveta Bahtia, HoD-FCA, MRIIRS	Member
14.	Sh. Sushil Kumar Pasricha, HoD-Business Studies, FCBS, MRIIRS	Member
15.	Ms. Ritika Singh, HOD- HM, MRIIRS	Member
16.	Sh. Satish Arora, CVO, MRIIRS	Member

17.	Dr. Vikram Sharma, University Librarian	Member
18.	Sh. Akhilesh, Manager Transport	Member
19.	Dr. Shobha Srivastava, Chief Warden-Hostels, MRIIRS	Member
20.	Sh. Manoj Jha, Admin Officer-FMS, MRIIRS	Member
21.	Dr. Dr. Anita Khosla, HOD-EECE, FET, MRIIRS	**Member Secretary**

- **Establishment of Online Grievance Redressal Mechanism**: Yes, the details are as under:

An online grievance redressal mechanism is operational on Institution Management System portal wherein Student/ Staff members can raise his/her grievance from the portal and depending upon the nature of grievance, the system allocates the issue automatically to the set competent authority at Level I. If the matter is not resolved by the Level I staff, he/she can transfer the issue to the next Level mapped in the system against the same issue for timely solution of the issues.

- **Establishment of Grievance Redressal Committee in the Institution and Appointment of OMBUDSMAN by the University : Yes**

- **Establishment of Internal Complaint Committee (ICC) :** Yes

  - Dr. Chavi Sharma, ED & Dean – FBSS- Chairperson
  - Dr.Shivani Vashist-HOD- English Dept.
  - Dr. Shobha Srivastava, DR (FET), MRIU
  - Sh.Gautam Srivastava,Associate Prof & Chief Stratigic Manager,FMS
  - Dr. Narender Tanwar, Associate Prof, FCBS
  - Ms. Chhavi Jain, Counselor, NCERT, Delhi.
  - Ms. Deepti Dabas Hazarika, Associate. Prof, FMS, Member Secretary

- **Establishment of Committee for SC/ ST :** Yes

Discriminating Complaint Committee (SCs/ST) Students/Teachers and Non Teaching staff

1.	Dr. Gurjeet Kaur Chawla, Dean Student Welfare, MRIIRS	**Chairperson**

2.	Dr. Vikram Sharma, University Librarian, MRIIRS	Member
3.	Dr. Shivani Vashisht, Professor, English, FMeH, MRIIRS	Member
4.	Dr. Jayender VErma, Professor, Commerce, FCBS, MRIIRS	Member
5.	Dr. Vimlesh Singh, Associate Professor, ECE,FET, MRIIRS	Member
6.	Sh. Ishwar Singh Sharma, DR-Estt., MRIIRS	Member
7.	Dr. Krishan Kumar, Associate Professor, CSE, MRIIRS	**Member Secretary**

- **Internal Quality Assurance Cell :** Yes

1.	Dr. Sanjay Srivastava, Vice Chancellor, MRIIRS	Chairperson
2.	M.M. Kathuria, General Sceretary, Management Representative, MRIIRS	Member
3.	Dr. Naresh Grover, Pro-Vice Chancellor, MRIIRS	Member
4.	Dr. V.K. Mahna, Professor Emeritus and Advisor IQAC	Member
5.	Sh. R.K. Arora, Registrar, MRIIRS	Member
6.	Dr. N.K. Chadha, Chairperson, CDP	Member
7.	Dr. Chavi Bhargava Sharma, ED & Dean FBSS, MRIIRS	Member
8.	Dr. Nand Lal Dhamija, Dean FMS, MRIIRS	Member
9.	Dr. H.C.Rai, Dean FET, MRIIRS	Member
10.	Dr. Sarita Sachdeva, ED & Dean Research, MRIIRS	Member
11.	Dr. S.S. Tyagi, Dean FCA, MRIIRS	Member
12.	Dr. Arundeep Singh, Principal, Dental, MRIIRS	Member
13.	Dr. Monika Goel, Dean FCBS, MRIIRS	Member
14.	Dr. Maithili Ganjoo, Dean, FMeH, MRIIRS	Member
15.	Prof. (Dr.) Moattar Raza Rizvi, Dean, FAHS, MRIIRS	Member
16.	Prof. (Col.) Sanjeev Gupta, Director FAD, MRIIRS	Member
17.	Prof. (Dr.) Amit Seth, Director Admissions	Member
18.	Mr. N.K. Sharma, CoE, MRIIRS	Member
19.	Dr. Vikram Sharma, University Librarian, MRIIRS	Member
20.	Dr. Gurjeet Chawla, DeanStudent Welfare, MRIIRS	Member
21.	Dr. Brijesh Kumar, Associate Dean Academics, MRIIRS	Member
22.	Dr. Geeta Nijhawan, Associate Dean, FET, MRIIRS	Member
23.	Dr. Deepti Dabas, Director&HOD-Management, FMS, MRIIRS	Member
24.	Dr. Tapas Kumar, Professor & HOD-CSE-IBM, MRIIRS	Member
25.	Mr. Gautam Srivastava, General Manager- CDC and HoD, Business Studies, MRIIRS	Member
26.	Dr. Virender Narula, Professor- M.E, FET, MRIIRS	Member
27.	Dr. Naresh Sharma, Reader, Dental, MRIIRS	Member

28.	Ms. Nidhi Tandon, Assistant Professor, FCBS, MRIIRS	Member
29.	Ms. Rakhi Pruthi, General Manager-CRC, MRIIRS	Member
30.	Sh. Sabyasachi Sen, General Manager-IT, MRIIRS	Member
31.	Sh. Navdeep Chawla, Industrialist, Faridabad	Member
32.	Sh. S.K. Jain, Civil Society, Representative	Member
33.	Dr. Sandeep Grover, Civil Society, Representative	Member
34.	Mr. Umesh Kumar, AVP (HCL Infotech Limited)	Member
35.	Mr. K. Vettum Perumal vide Dr. Vinod Gupta, Parent Representative	Member
36.	Ms. Samiksha Kohli vide Ms. Dipti Sahu, Alumni Representative	Member
37.	Ms. Shivani Singh vide Mr. Sachin Ahuja, Student Representative	Member
38.	Dr. Rashima Mahajan, Associate Prof-CSE & Director IQAC, MRIIRS	Member Secretary

6. Programmes:

- Name of Programmes approved by AICTE :

1) Engineering And Technology : **B.Tech In:** Aeronautical Engineering, Automobile Engineering, Biotechnology, Civil Engineering, Computer Science & Engineering, Computer Science & Engineering (Digital Forensic and Cyber Security), Computer Science & Engineering (Gaming Technology), Electrical And Electronics Engineering, Electronics and Communications Engineering, Mechanical Engineering

M.Tech In: Mechanical Engineering, Civil Engineering, Computer Engineering And Networking, Electronics and Communications Engineering, Automation and Robotics, Biotechnology

2) Management: Masters In Business Administration, MBA-(Innovation, Entrepreneurship and Venture Development)

3) MCA : Master Of Computer Applications

4) Architecture and Planning: Architecture (B.Arch)
5) Design : B.Design

Manav Rachna International Institute of Research and Studies (MRIIRS) was accredited by NAAC with 'A' Grade in November 2015

QS Stars rating, scoring five stars rating in six categories i.e. Teaching, Employability, Academic Development, Facilities, Social-responsibility and inclusiveness and with 4 stars in Programme Strength of Computer Science and Engineering Programme and rated MRIIRS with Overall 4 Star rating in year 2020.

The following programmes have also been accredited by NBA in 2018

1) B.Tech-Biotechnology
2) B.Tech-Computer Science & Engineering
3) B.Tech-Electronics & Communication Engineering
4) B.Tech- Mechanical Engineering

Details of each Programmes

Name of course	**B.Tech-Aeronautical Engineering**
Duration	4 yrs.
Sanctioned Intake (18-19)	30
Sanctioned Intake (19-20)	30
Sanctioned Intake (20-21)	30
Annual Academic Fee (in Rs.) AY 20-21	181500
Placement Opportunities	Aeronautical Engineering is both challenging and rewarding. India's successful 'Chandrayaan', 'Mars Orbiter Mission', 'GSLV Mk-III', and recent launches of two British Satellites for SSTL by Indian's PSLV besides successful induction of indigenously designed and manufactured Tejas fighter aircraft are examples of challenging careers and placement opportunities growing exponentially in the Indian market . The emerging joint ventures between aerospace giants like Boeing and Dassault Systems with Indian companies have opened further avenues of placement for aerospace students. The aeronautical careers exist in Hindustan Aeronautics Ltd. (HAL), Indian Space Research Organization (ISRO), Defence Research Development Organization (DRDO), Defence forces such as Indian Air Force, Indian Navy, Indian Army, and Airlines in the Govt. and private sector as well as in the aircraft manufacturing companies in the private sector.

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	
Year 2016 (In Lacs)	Maximum Salary: 6.5 Minimum Salary: 2.3 Average Salary: 3.31
Year 2017 (In Lacs)	Maximum Salary: 6 Minimum Salary: 2.3 Average Salary: 3.31
Year 2018 (In Lacs)	Maximum Salary: 3.45 Minimum Salary: 3.45 Average Salary: 3.45

Name of course	B.Tech-Automobile Engineering
Duration	4 yrs.
Sanctioned Intake (18-19)	30
Sanctioned Intake (19-20)	30
Sanctioned Intake (20-21)	30
Annual Academic Fee (in Rs.) AY 20-21	181500
Placement Opportunities	**Automobile engineers are highly in demand nowadays because of the high proliferation of automobiles in everyday life all over the world. Maruti Suzuki, Toyota, Volkswagen, New Holland, Tata Motors, Hyundai, Mahindra & Mahindra, Ashok Leyland, Hindustan Motors etc. are some of the leading automobile manufacturers in the country who are showing an interest in our students. The automobile manufacturing industry is supplemented by OEMs, such as Krishna Maruti, Sharda Motors, Ginnie solution, Institute of Road Traffic Education, HKS Auto, TCS, Square Yards, Harrison Associates, Blue Sapphire, Newgen Software technologies, Honeywell, A one Commercials, Eternity Industries Pvt Ltd. etc who frequently visit the campus for placement. Of course, other fields are also open to these engineers where they can find suitable jobs. Some of these areas are defence forces, space programme, atomic energy, power plants, railways, research laboratories, software development, information technology etc. Some students, with meritorious academic records and matching skills, have opted for higher studies in both National and International Universities**

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	
Year 2016 (In Lacs)	Maximum Salary: 3.33 Minimum Salary: 2 Average Salary: 2.5
Year 2017 (In Lacs)	Maximum Salary: 4.69 Minimum Salary: 2 Average Salary: 3.09
Year 2018 (In Lacs)	Maximum Salary: 3.6 Minimum Salary: 2.36 Average Salary: 3.17

Name of course	B.Tech-Biotechnology
Duration	4 yrs.
Sanctioned Intake (18-19)	30
Sanctioned Intake (19-20)	30
Sanctioned Intake (20-21)	30
Annual Academic Fee (in Rs.) AY 20-21	181500
Placement Opportunities	**Employment opportunities are available in the specialized fields of biotechnology viz. Stem Cell Technology, Biomedical Devices, Pharmaceuticals, Diagnostics, Global Biotech Parks (DBT), Biotech Research Incubator Institutions, Food Corporation of India, Biotechnology Management, IT sector, Banking Sector and Armed forces (Biological Warfare). Engineering Colleges and Technical Universities also offer job opportunities. Students can also go for higher studies and start their own ventures. A large number of pass outs have bagged excellent placements in leading companies, viz, Imperial Life Sciences, Lifecell International, Totipotent RX, Covidien, Space Group, Sagacious Research, CHC Health Care, e4e Health Group, Link Biotech, Ozone Biotech, CPM, Agilent Technology, Panacea Biotech, Medox Diagnostics, TCS (Biotech Division), Infosys (Biotech Division), IDS, L & T Infotech, IFBI and HCL, SCOTT EDIL & Kelly Services India Pvt. Ltd, Boston Scientific, etc.** **Many pass outs have opted for higher studies in both national and International universities after qualifying in competitive exams. International institutes include Drexel University Philadelphia- USA, University of Alabama Birmingham -US, University of Scotland, Clemson University Southern Carolina-US, Minnesota University- USA, John- Hopkins University- US, IGBI - Italy, Cornell University- US and many others. Some of the Indian universities where our students are pursuing higher studies are IIT Mumbai, IIT Khargpur and many more.**

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	
Year 2016 (In Lacs)	Maximum Salary: 3.67 Minimum Salary: 2.2 Average Salary: 2.75
Year 2017 (In Lacs)	Maximum Salary: 4.69 Minimum Salary: 2.0 Average Salary: 3.09
Year 2018 (In Lacs)	Maximum Salary: 9.83 Minimum Salary: 2.89 Average Salary: 4.21

Name of course	B.Tech-Civil Engineering
Duration	4 yrs.
Sanctioned Intake (18-19)	60
Sanctioned Intake (19-20)	30
Sanctioned Intake (20-21)	30
Annual Academic Fee (in Rs.) AY 19-20	181500
Placement Opportunities	**India is going through an intense phase of rapid infrastructure development. This throws up possibilities of absorption of Civil Engineers in a big way. Presently, huge demand and supply gap exists for Civil Engineers in the market. A good number of students have been placed in reputed companies such as Ashoka Buildcon, Rothenberger, PNB Housing Finance, Earth Infrastructure Pvt LTD, GR Infra Projects Ltd, KMC Construction, PNC Infratech Ltd, Sushee Infra Pvt Ltd, TCS, Theme Engineering, Unihorn, Vishwa Infrastructure, SGS-Technomech, Top Surveying, Prathishta Group, Cinda Engineering, Supertech etc. Besides, the department looks forward for tying up with other companies for opening up other windows for recruitment of students. Some of the students have also opted for higher studies in both National and International Universities.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	

Year 2016 (In Lacs)	Maximum Salary: 6.5 Minimum Salary: 2.4 Average Salary: 3.46
Year 2017 (In Lacs)	Maximum Salary: 3.91 Minimum Salary: 2.2 Average Salary: 2.86
Year 2018 (In Lacs)	Maximum Salary: 5.17 Minimum Salary: 2.62 Average Salary: 3.29

Name of course	B.Tech-Computer Science & Engineering
Duration	4 yrs.
Sanctioned Intake (18-19)	240
Sanctioned Intake (19-20)	240
Sanctioned Intake (20-21)	240
Annual Academic Fee (in Rs.) AY 20-21	191000
Placement Opportunities	**Excellent placements with over 90% of its eligible/ willing students placed in companies namely Microsoft, Infosys, TCS, Cognizant, Wipro, L&T Infotech, HCL, IBM, Hewitt, Tata Telecom, NIIT, Dell, Capital IQ, Vodafone, Airtel, Idea etc. With the introduction of specializations in B.Tech (CSE) Programme, placement opportunities for the students pass-out from the specialized programme will get further enhanced in a big way. In addition, placement opportunities are also available in the organizations such as DRDO, ISRO, ONGC, NIC, BSNL, Armed Forces, IES, Civil Services, Banking, Health Sector, etc.** **Many students opt for higher studies/research in India/Abroad. The programmes running in the Department also prepare the students to choose a career in research and development, which provide an excellent foundation for Ph.D study.**

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	
Year 2016 (In Lacs)	Maximum Salary: 15.16 Minimum Salary: 2.0 Average Salary: 3.0
Year 2017 (In Lacs)	Maximum Salary: 5.0 Minimum Salary: 2.1 Average Salary: 3.33
Year 2018 (In Lacs)	Maximum Salary: 5.85 Minimum Salary: 2.3 Average Salary: 3.6

Name of course	B.Tech-Computer Science and Engineering (Digital Forensic and Cyber Security)
Duration	4 yrs.
Sanctioned Intake (20-21)	60
Annual Academic Fee (in Rs.) AY 20-21	221500
Placement Opportunities	**Excellent placements with over 90% of its eligible/ willing students placed in companies namely Microsoft, Infosys, TCS, Cognizant, Wipro, L&T Infotech, HCL, IBM, Hewitt, Tata Telecom, NIIT, Dell, Capital IQ, Vodafone, Airtel, Idea etc. With the introduction of specializations in B.Tech (CSE) Programme, placement opportunities for the students pass-out from the specialized programme will get further enhanced in a big way. In addition, placement opportunities are also available in the organizations such as DRDO, ISRO, ONGC, NIC, BSNL, Armed Forces, IES, Civil Services, Banking, Health Sector, etc.** **Many students opt for higher studies/research in India/Abroad. The programmes running in the Department also prepare the students to choose a career in research and development, which provide an excellent foundation for Ph.D study.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	

Name of course	B.Tech-Computer Science and Engineering (Gaming Technology)
Duration	**4 yrs.**
Sanctioned Intake (20-21)	**30**
Annual Academic Fee (in Rs.) AY 20-21	**221500**
Placement Opportunities	Excellent placements with over 90% of its eligible/ willing students placed in companies namely Microsoft, Infosys, TCS, Cognizant, Wipro, L&T Infotech, HCL, IBM, Hewitt, Tata Telecom, NIIT, Dell, Capital IQ, Vodafone, Airtel, Idea etc. With the introduction of specializations in B.Tech (CSE) Programme, placement opportunities for the students pass-out from the specialized programme will get further enhanced in a big way. In addition, placement opportunities are also available in the organizations such as DRDO, ISRO, ONGC, NIC, BSNL, Armed Forces, IES, Civil Services, Banking, Health Sector, etc. Many students opt for higher studies/research in India/Abroad. The programmes running in the Department also prepare the students to choose a career in research and development, which provide an excellent foundation for Ph.D study.
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	

Name of course	B.Tech-Electrical and Electronics Engineering
Duration	4 yrs.
Sanctioned Intake (18-19)	30
Sanctioned Intake (19-20)	30
Sanctioned Intake (20-21)	30
Annual Academic Fee (in Rs.) AY 20-21	181500
Placement Opportunities	**Electrical Engineers are much in demand in India, and have numerous opportunities. Electrical engineers can work in atomic power plants, hydel or thermal power plants, railways, civil aviation, electricity board and utility companies, electrical design and consultancy firms and all types of manufacturing industries. The candidates can also find job opportunities in Production plants, Design industries, Petroleum industry, Natural gas plants etc. in the private sector as well. Companies like ABB, Bajaj International Private Ltd, Crompton Greaves Limited, Siemens Ltd, Reliance Power Ltd, Oil and Natural Gas Corporation (ONGC), Bharat Heavy Electricals Limited (BHEL), Steel Authority of India Limited (SAIL), Coal India Limited (CIL), Power Grid Corporation of India Limited (PGCIL), Centre for Electronics Design and Technology and Wipro Lighting are the biggest employers hiring Electrical Engineers.** **Apart from this, students also go for higher education and entrepreneurship. Over the last few years, around 60% of our students have been placed in public and private sector corporations.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry; we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.

Campus Placement during last three years (Salary Packages)	
Year 2016 (In Lacs)	Maximum Salary: 3.93 Minimum Salary: 3.15 Average Salary: 3.47
Year 2017 (In Lacs)	Maximum Salary: 4.11 Minimum Salary: 2.16 Average Salary: 2.78
Year 2018 (In Lacs)	Maximum Salary: 6 Minimum Salary: 2.3 Average Salary: 3.48

Name of course	B.Tech-Electronics and Communications Engineering
Duration	4 yrs.
Sanctioned Intake (18-19)	60
Sanctioned Intake (19-20)	60
Sanctioned Intake (20-21)	60
Annual Academic Fee (in Rs.) AY 20-21	181500
Placement Opportunities	**Placement opportunities are available in Public sector companies like BEL, BSNL, BHEL, NHPC, NTPC, DMRC, C-Dot, HAL, Airport Authority, BARC, ISRO, DoS, DST, NPL etc. Other sectors which offer job opportunities are DRDO, Armed Forces, Railways, Technical Universities and State Electricity Boards. Large MNCs and IT companies namely Infosys, TCS, Wipro, L&T Infotech, HCL, Hewitt, Satyam, Tata Telecom, NIIT, Siemens, Huawei, Ericsson, Ceasefire, Capital IQ etc. are the major recruiters. Students also opt for higher studies. New organizations handling IPR and Patenting also offer job opportunities to our students.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	

Year 2016 (In Lacs)	Maximum Salary: 6.2 Minimum Salary: 2.16 Average Salary: 3.03
Year 2017 (In Lacs)	Maximum Salary: 13.67 Minimum Salary: 2.0 Average Salary: 3.65
Year 2018 (In Lacs)	Maximum Salary: 5.57 Minimum Salary: 2.34 Average Salary: 3.27

Name of course	B.Tech-Mechanical Engineering
Duration	4 yrs.
Sanctioned Intake (18-19)	120
Sanctioned Intake (19-20)	90
Sanctioned Intake (20-21)	60
Annual Academic Fee (in Rs.) AY 20-21	181500
Placement Opportunities	**The Mechanical Engg. has been treated as ever green discipline of Engineering. With the continuous growth in the Manufacturing & Automation, Automobile sector etc there is a growing demand of Mechanical Graduate Engineers. The student passing out are being absorb in the different core companies like Maruti, JBM, Blue star, Voltas, Daikin, Hi-Tech, Carigaire Restiflex, Sterling and Wilson, Kiroloskar, Ruskin Titus etc. The salary package varies between 3 lacs to 6 lacs per annum depending on the company.** **Our past students of Mechanical Engineering are also being absorbed in IT Industries TCS, Tech Mahindra, Accenture and a number of other organizations.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.

Campus Placement during last three years (Salary Packages)	
Year 2016 (In Lacs)	Maximum Salary: 6.0 Minimum Salary: 2.0 Average Salary: 2.75
Year 2017 (In Lacs)	Maximum Salary: 6.0 Minimum Salary: 2.0 Average Salary: 2.82
Year 2018 (In Lacs)	Maximum Salary: 5.6 Minimum Salary: 2.3 Average Salary: 3.32

Name of course	M.Tech-Mechanical Engineering
Duration	2 yrs.
Sanctioned Intake (18-19)	18
Sanctioned Intake (19-20)	18
Sanctioned Intake (20-21)	6
Annual Academic Fee (in Rs.) AY 19-20	116000
Placement Opportunities	**The students of passing out Mechanical Engg. with specialization in Industrial Engg. have good opportunities for getting placed at respectable positions in the Automation and Manufacturing sector.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	

Year 2016 (In Lacs)	Maximum Salary: 3.4 Minimum Salary: 3.0 Average Salary: 3.2
Year 2017 (In Lacs)	Maximum Salary: 3.0 Minimum Salary: 3.0 Average Salary: 3.0
Year 2018 (In Lacs)	Maximum Salary: Minimum Salary: Average Salary:

Name of course	M.Tech-Civil Engineering
Duration	2 yrs.
Sanctioned Intake (18-19)	24
Sanctioned Intake (19-20)	18
Sanctioned Intake (20-21)	30
Annual Academic Fee (in Rs.) AY 20-21	116000
Placement Opportunities	**India is going through an intense phase of rapid infrastructure development. This throws up possibilities of absorption of Civil Engineers in a big way with the specialization in the fields of Structural Engg., Transportation Engg. and Construction Management.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.

Name of course	M.Tech-Computer Engineering and Networking
Duration	2 yrs.
Sanctioned Intake (18-19)	18
Sanctioned Intake (19-20)	18
Sanctioned Intake (20-21)	06
Annual Academic Fee (in Rs.) AY 20-21	116000
Placement Opportunities	**The introduction of specializations in M.Tech (CE) Programmes such as Computer Networking (CN) aims at exposing students to the current edge of research. Many students opt for higher studies/research in India/Abroad. The programmes running in the Department also prepare the students to choose a career in research and development, which provide an excellent foundation for Ph.D study.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	

Year 2016 (In Lacs)	Maximum Salary: 3.6 Minimum Salary: 3.6 Average Salary: 3.6

Name of course	**M.Tech-Electronics and Communications Engineering**
Duration	2 yrs.
Sanctioned Intake (18-19)	18
Sanctioned Intake (19-20)	18
Sanctioned Intake (20-21)	06
Annual Academic Fee (in Rs.) AY 20-21	116000
Placement Opportunities	**Placement opportunities are available in Public sector companies like BEL, BSNL, BHEL, NHPC, NTPC, DMRC, C-Dot, HAL, Airport Authority, BARC, ISRO, DoS, DST, NPL etc. Other sectors which offer job opportunities are DRDO, Armed Forces, Railways, Technical Universities and State Electricity Boards. Large MNCs and IT companies namely Infosys, TCS, Wipro, L&T Infotech, HCL, Hewitt, Satyam, Tata Telecom, NIIT, Siemens, Huawei, Ericsson, Ceasefire, Capital IQ etc. are the major recruiters. With the specialization in VLSI and Embedded System the students get the opportunity to work in the VLSI companies like: ST Micro Electronics, Free Scale, Siemens, Samsung, Infineon etc. New organizations handling IPR and Patenting also offer job opportunities to our students. Some of the student also opt for teaching profession or peruse their further research work by enrolling in Ph.D programme**

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	
Year 2016 (In Lacs)	Maximum Salary: 5.0 Minimum Salary: 5.0 Average Salary: 5.0
Year 2017 (In Lacs)	Maximum Salary: 4.8 Minimum Salary: 4.8 Average Salary: 4.8

Name of course	M.Tech-Power Electronics and Electrical Drives
Duration	2 yrs.
Sanctioned Intake (18-19)	18
Sanctioned Intake (19-20)	18
Sanctioned Intake (20-21)	00 (Course Dropped)
Annual Academic Fee (in Rs.) AY 19-20	106000
Placement Opportunities	**The students after doing M.Tech- Power Electronics and Electrical Drives get the opportunities to work in atomic power plants, hydel or thermal power plants, railways, civil aviation, electricity board and utility companies, electrical design and consultancy firms and all types of manufacturing industries. The candidates can also find job opportunities in Production plants, Design industries, Petroleum industry, Natural gas plants etc. in the private sector as well. Companies like ABB, Bajaj International Private Ltd, Crompton Greaves Limited, Siemens Ltd, Reliance Power Ltd, Oil and Natural Gas Corporation (ONGC), Bharat Heavy Electricals Limited (BHEL), Steel Authority of India Limited (SAIL), Coal India Limited (CIL), Power Grid Corporation of India Limited (PGCIL), Centre for Electronics Design and Technology and Wipro Lighting are the biggest employers hiring Electrical Engineers.** **Some of the student also opt for teaching profession or persue their further research work by enrolling in Ph.D programme**

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.

Name of course	**M.Tech- Automation and Robotics**
Duration	2 yrs.
Sanctioned Intake (20-21)	06
Annual Academic Fee (in Rs.) AY 20-21	116000
Placement Opportunities	**The students after doing M.Tech- Power Electronics and Electrical Drives get the opportunities to work in atomic power plants, hydel or thermal power plants, railways, civil aviation, electricity board and utility companies, electrical design and consultancy firms and all types of manufacturing industries. The candidates can also find job opportunities in Production plants, Design industries, Petroleum industry, Natural gas plants etc. in the private sector as well. Companies like ABB, Bajaj International Private Ltd, Crompton Greaves Limited, Siemens Ltd, Reliance Power Ltd, Oil and Natural Gas Corporation (ONGC), Bharat Heavy Electricals Limited (BHEL), Steel Authority of India Limited (SAIL), Coal India Limited (CIL), Power Grid Corporation of India Limited (PGCIL), Centre for Electronics Design and Technology and Wipro Lighting are the biggest employers hiring Electrical Engineers.** **Some of the student also opt for teaching profession or persue their further research work by enrolling in Ph.D programme**

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.

Name of course	**M.Tech-Biotechnology**
Duration	2 yrs.
Sanctioned Intake (18-19)	18
Sanctioned Intake (19-20)	18
Sanctioned Intake (20-21)	06
Annual Academic Fee (in Rs.) AY 20-21	116000

Placement Opportunities	**Employment opportunities are available in the specialized fields of biotechnology viz. Stem Cell Technology, Biomedical Devices, Pharmaceuticals, Diagnostics, Global Biotech Parks (DBT), Biotech Research Incubator Institutions, Food Corporation of India, Biotechnology Management, IT sector and Armed forces (Biological Warfare). Engineering Colleges and Technical Universities also offer job opportunities. Students can also go for higher studies and start their own ventures.** **A large number of pass outs have bagged excellent placements in leading companies, viz, Imperial Life Sciences, Lifecell International, Totipotent RX, Covidien, Space Group, Sagacious Research, CHC Health Care, e4e Health Group, Link Biotech, Ozone Biotech, CPM, Agilent Technology, Panacea Biotech, Medox Diagnostics, TCS (Biotech Division), Infosys (Biotech Division), IDS, L & T Infotech, IFBI and HCL, SCOTT EDIL & Kelly Services India Pvt. Ltd, Boston Scientific, etc.** **Many pass outs have opted for higher studies in both national and International universities after qualifying in competitive exams. International institutes include Drexel University Philadelphia- USA, University of Alabama Birmingham -US, University of Scotland, Clemson University Southern Carolina-US, Minnesota University- USA, John- Hopkins University- US, IGBI - Italy, Cornell University- US and many others. Some of the Indian universities where our students are pursuing higher studies are IIT Mumbai, IIT Khargpur and many more.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	

Year 2016 (In Lacs)	Maximum Salary: 3.4 Minimum Salary: 2.8 Average Salary: 3.08
Year 2017 (In Lacs)	Maximum Salary: 3.6 Minimum Salary: 2.4 Average Salary: 3.02
Year 2018 (In Lacs)	Maximum Salary: 3.6 Minimum Salary: 3.0 Average Salary: 3.42

Name of course	Masters In Business Administration
Duration	2 yrs.
Sanctioned Intake (18-19)	180
Sanctioned Intake (19-20)	150
Sanctioned Intake (20-21)	120
Annual Academic Fee (in Rs.) AY 20-21	298500
Placement Opportunities	**Our students have carved out their careers in MNC's, Start-ups, Service Industry, FMCG, Consumer Durables, Financial Institutions and are also successful Entrepreneurs. Some of our top recruiters are: American Express, Ernst & Young, Colgate-Palmolive, Reliance Jio, Airtel, Ericsson, J.Walter Thompson (JWT),Byjus, Wacom India, Infoedge ltd, Zomato, HT Media Times, KPMG, Fortis, Naukri.com,99 Acres, India Bulls, Grofers, Jaro Education, Comio Mobiles etc.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	

Year 2016 (In Lacs)	Maximum Salary: 13.8 Minimum Salary: 1.84 Average Salary: 2.98
Year 2017 (In Lacs)	Maximum Salary: 8.05 Minimum Salary: 2.07 Average Salary: 3.46
Year 2018 (In Lacs)	Maximum Salary: 7.65 Minimum Salary: 2.3 Average Salary: 3.54

Name of course	MBA-(Innovation, Entrepreneurship and Venture Development)
Duration	2 yrs.
Sanctioned Intake (20-21)	30
Annual Academic Fee (in Rs.) AY 20-21	348500
Placement Opportunities	**Our students have carved out their careers in MNC's, Start-ups, Service Industry, FMCG, Consumer Durables, Financial Institutions and are also successful Entrepreneurs. Some of our top recruiters are: American Express, Ernst & Young, Colgate-Palmolive, Reliance Jio, Airtel, Ericsson, J.Walter Thompson (JWT),Byjus, Wacom India, Infoedge ltd, Zomato, HT Media Times, KPMG, Fortis, Naukri.com,99 Acres, India Bulls, Grofers, Jaro Education, Comio Mobiles etc.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.

Name of course	Master Of Computer Applications
Duration	2 yrs.
Sanctioned Intake (18-19)	60
Sanctioned Intake (19-20)	60
Sanctioned Intake (20-21)	60
Annual Academic Fee (in Rs.) AY 20-21	136000
Placement Opportunities	**Major Recruiters for our students are: AON Hewitt, CMC, DELL, HCL Technologies, L & T Infotech, Motherson Sumi, NIIT, SAMSUNG, WIPRO, ACCENTURE, SONY ERICSSON, GENPACT, Zen Focus, 3 Pillars Global, Tech Mahindra, Aricent Technologies, TCS, ICS Solutions, SunLife, etc.**
Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.
Campus Placement during last three years (Salary Packages)	
Year 2016 (In Lacs)	Maximum Salary: 3.96 Minimum Salary: 1.32 Average Salary: 2.88

Year 2017 (In Lacs)	Maximum Salary: 4.14 Minimum Salary: 2.07 Average Salary: 3.37
Year 2018 (In Lacs)	Maximum Salary: 4.77 Minimum Salary: 1.61 Average Salary: 2.90

Name of course	B.Arch
Duration	5 yrs.
Sanctioned Intake (18-19)	40
Sanctioned Intake (19-20)	40
Sanctioned Intake (20-21)	40
Annual Academic Fee (in Rs.) AY 20-21	215500
Placement Opportunities	**Professional Architects can build careers as independently practicing Architects, as Architects working within Architectural firms, as academics focused on teaching and research, or within non-governmental organizations. In India, the Architectural profession is regulated by the Council of Architecture (CoA), which was established by Parliament through the Architects Act, 1972.** **The graduates could expect to take up following work opportunities after completing their degree: Space Planner, Freelance interior designer, Office & workspace designers, Set Designer, Art Director, Furniture Designer, Vaastu Consultant, Feng Shui Consultant,Wall covering Designer, Window Treatment Specialist, Interior Design Educator, Kitchen & Bath Designer, Design Journalist, and Colour Consultant etc**

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.

Name of course	**B.Design**
Duration	4 yrs.
Sanctioned Intake (20-21)	30
Annual Academic Fee (in Rs.) AY 20-21	215500
Placement Opportunities	**Professional Designer can build careers as independently practicing Designer, as Designer working, as academics focused on teaching and research, or within non-governmental organizations.** **The graduates could expect to take up following work opportunities after completing their degree: Digita, Print, Outdoor and analogue.Can be categroied as Graphic Designers, Advertising artists, Illustrator, Web designers, Motion Graphic artists, Printmakers, Concept Artists, Video Editors etc.**

Placement Facilities	The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills. CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna. Each department has exclusive placement faculty coordinator for mentoring / helping the students in all Placement activities.

Faculty student ratio:

Programme	**Faculty Student Ratio**
B.TECH IN:	
AERONAUTICAL ENGINEERING	1 : 17.1
AUTOMOBILE ENGINEERING	1: 17.1
BIOTECHNOLOGY	1 : 10.7
CIVIL ENGINEERING	1 : 15
COMPUTER SCIENCE & ENGINEERING	1 : 18
COMPUTER SCIENCE & ENGINEERING(Digital Forensic and Cyber Security)	
COMPUTER SCIENCE & ENGINEERING (Gaming Technology)	
ELECTRICAL AND ELECTRONICS ENGINEERING	1 : 12
ELECTRONICS AND COMMUNICATIONS ENGINEERING	1 : 14.1
MECHANICAL ENGINEERING	1 : 15.5
M.TECH IN:	
MECHANICAL ENGINEERING	1 : 12
CIVIL ENGINEERING	1 : 10.5
COMPUTER ENGINEERING AND NETWORKING	1 : 12
ELECTRONICS AND COMMUNICATIONS ENGINEERING	1 : 12
AUTOMATION & ROBOTICS	1 : 12
BIOTECHNOLOGY	1 : 12
MASTERS IN BUSINESS ADMINISTRATION	1 : 18.3
MBA-(Innovation, Entrepreneurship and Venture Development)	
MASTER OF COMPUTER APPLICATIONS	1 : 15
B.ARCH	1 : 13.3
B.DESIGN	

8. **Profile of Vice Chancellor**

Name of Faculty Member	DR. SANJAY SRIVASTAVA
DATE OF BIRTH (DD-MON-YY)	30.03.1970
FACULTY UNIQUE ID	1-7453168792
Educational Qualification	Ph.D
EXACT DESIGNATION	VICE-CHANCELLOR
PROGRAMME / COURSE	MASTERS IN BUSINESS ADMINISTRATION
WORK EXPERIENCE	
TEACHING EXPERIENCE	27
RESEARCH EXPERIENCE	0
INDUSTRY EXPERIENCE	3
TOTAL EXPERIENCE	27
AREA OF SPECIALIZATION	ORGANIZATIONAL BEHAVIOUR
LEVEL OF COURSES BEING TAKEN	Post Graduate
RESEARCH GUIDANCE	
NO OF PUBLICATIONS IN NATIONAL CONFERENCE	25
NO OF DOCTRATE STUDENTS GUIDED	26
BOOK PUBLISHED	08

Brief Profile of Dr. Sanjay Srivastava, Vice-Chancellor, MRIIRS

Professor (Dr.) Sanjay Srivastava is a Ph. D. in Organizational Culture from University of Delhi, an expert in Psychometric Profiling and a trainer practitioner of Transactional Analysis and NLP. Dr. Sanjay Srivastava has many awards to his credit and has been a recipient of National Talent Scholarship in Education and the Young Scientist Award in Psychology 1994 by Indian Science Congress Association. He is one of the few who have been accorded with the International Honorary Research Fellowship for five years upto 2021 at Lahti University of Applied Sciences, Helsinki ,Finland a rare honor, bestowed upon him by the Hon'ble Prime Minister of Finland Mr. Juha Sipila on February 14, 2016. His book entitled -The timeless wisdom from Geeta & Leadership ("Geeta ka Shashwat Gyan tatha Netratva ki Kala") set to be released on April 4, 2017.

Dr. Srivastava has worked with Haryana Institute of Public Administration for many years and responsible for conducting programs for the civil servants of the cadre and conducting programs of Department of Personnel & Training, Government of India at their various academies like LBS- National Academy, Mussoorie & SP National Police Academy, Hyderabad, National Academy of CBI and many more. Before Joining Manav Rachna Educational Institutions, he worked for 18 years with Amity University and has had the privilege of teaching

eighteen out of twenty batches graduated from Amity Business School, flagship institute of Amity University as Professor of Organizational Behavior. He has worked at Amity University as its Dean 'Examination and Faculty of Management Studies' & Chairman, Doctoral Program of Amity University, Uttar Pradesh.

24 scholars have completed their Ph. D. work under his guidance and at present 7 of them are pursuing their doctoral work with him. He has guided more than 350 dissertations, 450 summer internships at Post Graduate level and many consulting assignments of Government in India and abroad, some of his classic consulting work includes Kudremukh Iron Ore Company Limited at Karnataka, Dubai Electricity & Water Authority (DEWA) & Sharjah Transport, Falcon Group of Industries – Sharjah*)* and many more. He is Life Member of International Psychoanalytic Society and National Academic of Psychology.

During his distinguished career of over two decades having had many distinctions the academic community knows him as team builder, an acclaimed teacher, a prolific speaker, an avid researcher, a consultant and an Organizational Coach. Besides, Dr. Srivastava has worked on many international assignments on various capacities which include Training, Consultancy etc.

List of Faculty Members

S. No	Faculty Unique ID	Name	Designation	Qualification	Date of Birth	Appointment Date
1	1-3696843352	DEVENDER SHARMA	PROFESSOR	B.Tech. (Aero), MBA, MSc Strategic Studies	5/10/1960	18/12/2017
2	1-3696980013	SACHIN MARWAHA	ASSOCIATE PROFESSOR	M.Tech, Pursuing Ph.D	12/11/1963	27/1/2014
3	1-7449419917	SABIHA PARVEEN	ASST PROFESSOR	M.Tech	17/11/1990	3/2/2020
4	1-7449598143	SONALI GUPTA	ASST PROFESSOR	M.Tech	13/9/1994	16/8/2019
5	1-7449598149	VISHAL	ASST PROFESSOR	M.Tech	10/7/1993	16/8/2019
6	1-3655885222	DEVENDRA VASHIST	PROFESSOR	Ph.D	10/10/1974	27/7/2000
7	1-3683150890	SUNNY BHATIA	ASST PROFESSOR	M.Tech, Pursuing Ph.D	6/1/1986	3/8/2010
8	1-3683258398	RAM PRAVESH	ASST PROFESSOR	M.Tech	22/10/1985	20/2/2014
9	1-3684044674	NITIN Kumar WAGHMARE	ASST PROFESSOR	M.Tech, Pursuing Ph.D	13/7/1981	3/1/2012
10	1-3684044842	GURPREET Singh MATHAROU	ASST PROFESSOR	M.Tech, Pursuing Ph.D	1/10/1979	22/7/2013
11	1-3686260225	SARITA SACHDEVA	PROFESSOR	Ph.D	23/11/1966	27/7/2003
12	1-3687719884	ABHILASHA SHOURIE	PROFESSOR	Ph.D	26/7/1978	6/8/2007
13	1-3689393969	JOSEPH Alex DAVIS	PROFESSOR	Ph.D	17/7/1961	12/6/2017
14	1-7449946267	KANNAN KRISHNAMOORTHY	PROFESSOR	Ph.D	1/10/1952	14/1/2020
15	1-3689505656	MANU SOLANKI	ASSOCIATE PROFESSOR	Ph.D	26/5/1977	30/8/2005
16	1-3690203160	PUSHPA Chaudhary TOMAR	ASSOCIATE PROFESSOR	Ph.D	20/5/1977	20/8/2006
17	1-3690203187	SABIHA IMRAN	ASSOCIATE PROFESSOR	Ph.D	15/8/1965	8/1/2008
18	1-3690811185	SHILPA Samir CHAPADGAONKAR	ASSOCIATE PROFESSOR	Ph.D	2/3/1976	16/3/2009
19	1-3690811193	SHOBHA SHRIVASTAVA	ASSOCIATE PROFESSOR	Ph.D	17/4/1967	5/10/2013
20	1-3690811200	NIDHI DIDWANIA	ASSOCIATE PROFESSOR	Ph.D	26/7/1977	31/10/2009
21	1-3691135107	RASHMI RAMESHWARI	ASST PROFESSOR	M.Tech, Ph.D	3/1/1979	3/7/2006
22	1-3694793854	KAPILA	ASST PROFESSOR	Ph.D	11/2/1983	10/8/2015
23	1-3694900342	RICHA YADAV	ASST PROFESSOR	M.Tech, Pursuing Ph.D	24/9/1989	23/10/2015
24	1-3695037766	SOMA PATNAIK	ASST	Ph.D	15/9/1979	2/5/2016

			PROFESSOR			
25	1-3696793052	SYAMA ADHIKARLA	ASST PROFESSOR	Ph.D	17/11/1983	3/8/2017
26	1-3691187094	SADIQA ABBAS	PROFESSOR	Ph.D	20/4/1976	4/9/2014
27	1-3692430284	ARUNANGSHU MUKHERJEE	PROFESSOR	M.Sc. Ph.D	26/12/1963	10/9/2017
28	1-3692430299	SANJAY GUPTA	ASSOCIATE PROFESSOR	Ph.D	21/1/1965	1/7/2013
29	1-3692430313	SUNITA BANSAL	ASSOCIATE PROFESSOR	M.Tech., Ph.D	2/10/1970	26/8/2013
30	1-3692430337	ANJALI GUPTA	ASSOCIATE PROFESSOR	M.Tech, Ph.D Pursuing	9/11/1979	27/1/2011
31	1-3692991035	AFTAB ALAM	ASST PROFESSOR	M.Tech., Pursuing Ph.D	3/8/1970	29/7/2013
32	1-3693294904	SONAL BHUGRA	ASST PROFESSOR	M.Tech., Pursuing Ph.D	28/4/1980	2/6/2014
33	1-3693521964	GURVINDER Singh BHATIA	ASST PROFESSOR	M.Tech	20/8/1968	26/6/2014
34	1-3693667430	SHASHI TIWARI	ASST PROFESSOR	M.Tech., Pursuing Ph.D	3/2/1991	2/6/2014
35	1-3693848524	PROBIR MONDAL	ASST PROFESSOR	M.Tech	20/4/1989	16/8/2017
36	1-3694900349	RAMEEZUT TAUHEED	ASST PROFESSOR	M.Tech., Pursuing Ph.D	17/2/1990	26/7/2013
37	1-4530221109	DAVID GNANA DHAS GIFT PON LAZARUS	ASST PROFESSOR	M.Tech, Pursuing Ph.D	13/6/1988	1/8/2018
38	1-3702446144	SURESH BHARDWAJ	PROFESSOR	Ph.D	25/8/1975	1/8/2002
39	1-3703069119	SUPRIYA Priyabadini PANDA	PROFESSOR	M.Sc., Ph.D	15/6/1963	8/8/2016
40	1-3703104313	INDU KASHYAP	PROFESSOR	Ph.D	3/11/1982	15/6/2006
41	1-3703540664	CHARU VIRMANI	PROFESSOR	M.Tech, Ph.D	2/4/1984	5/12/2005
42	1-3703692276	MEENAKSHI MOZA	PROFESSOR	M Tech., Ph.D	25/1/1965	18/8/2001
43	1-4530598913	BRIJESH KUMAR	PROFESSOR	Ph.D	27/8/1974	21/8/2018
44	1-7448956772	SUBHAJIT GHOSH	PROFESSOR	Ph.D	30/7/1967	15/1/2020
45	1-3703692530	RASHIMA MAHAJAN	ASSOCIATE PROFESSOR	Ph.D	24/1/1982	16/8/2017
46	1-3703104320	KRISHAN KUMAR	ASSOCIATE PROFESSOR	Ph.D	22/2/1981	15/1/2008
47	1-3703151654	KAMLESH SHARMA	ASSOCIATE PROFESSOR	Ph.D	5/8/1981	27/6/2017

48	1-3703264561	POONAM TANWAR	ASSOCIATE PROFESSOR	Ph.D	1/2/1978	27/6/2017
49	1-3703264568	RACHNA BAHL	ASSOCIATE PROFESSOR	M.Tech, Pursuing Ph.D	11/6/1979	23/9/2003
50	1-3703653032	SIMPLE SHARMA	ASSOCIATE PROFESSOR	M.Tech, Pursuing Ph.D	4/5/1978	17/7/2006
51	1-3703653039	SUNITA VIRMANI	ASSOCIATE PROFESSOR	M Tech., Ph.D	20/8/1973	30/7/2001
52	1-3703970414	ROSY MADAAN	ASSOCIATE PROFESSOR	Ph.D	25/10/1983	3/10/2017
53	1-3705644504	SEEMA VERMA	ASSOCIATE PROFESSOR	Ph.D	15/11/1980	11/10/2017
54	1-3705644722	MEETA SINGH	ASSOCIATE PROFESSOR	M. Tech, Ph.D	14/10/1976	18/6/2007
55	1-3705644729	URVASHI CHUGH	ASSOCIATE PROFESSOR	M. Tech, Ph.D	18/4/1984	1/2/2014
56	1-3705774386	POONAM CHAHAL	ASSOCIATE PROFESSOR	M. Tech, Ph.D.	12/7/1984	5/7/2007
57	1-3705791073	BINDIYA AHUJA	ASSOCIATE PROFESSOR	ME, Ph.D	3/4/1984	15/12/2005
58	1-7448956779	SUMAN BHATIA	ASSOCIATE PROFESSOR	Ph.D	12/12/1980	13/1/2020
59	1-3707597912	RITIKA BATEJA	ASST PROFESSOR	M Tech. Pursuing Ph.D	29/1/1987	15/6/2009
60	1-3708586162	ARUN KUMAR	ASST PROFESSOR	M Tech. Pursuing Ph.D	1/1/1985	4/7/2011
61	1-3708586169	TANVI GUPTA	ASST PROFESSOR	M Tech. Pursuing Ph.D	17/10/1988	23/7/2012
62	1-3708586976	SHEFALI GARG	ASST PROFESSOR	M Tech. Pursuing Ph.D	12/4/1985	9/9/2008
63	1-8021556643	SUNITA JOSHI	ASST PROFESSOR	M.Tech, Ph.D. (Pursuing)	11/9/1982	1/1/2017
64	1-3705791080	PINKI SAGAR	ASST PROFESSOR	M Tech. Pursuing Ph.D	9/11/1983	10/11/2006
65	1-3705791647	POONAM KATYAL	ASST PROFESSOR	M Tech. Pursuing Ph.D	21/2/1985	3/3/2009
66	1-3705791724	SHWETA SHARMA	ASST PROFESSOR	M. E., Pursuing Ph.D	5/2/1982	1/7/2009
67	1-3705843006	NEHA	ASST PROFESSOR	M.Tech	23/8/1988	23/7/2012
68	1-3705921891	PRONIKA	ASST PROFESSOR	M Tech. Pursuing Ph.D	15/12/1985	23/6/2008

69	1-3705921898	PRIYANKA RANI	ASST PROFESSOR	M Tech. Pursuing Ph.D	4/11/1986	15/1/2008
70	1-3706490552	SHELJA SHARMA	ASST PROFESSOR	M. Tech, Ph.D.	24/12/1982	27/7/2009
71	1-3706490846	RANJEETA MITTAL	ASST PROFESSOR	M Tech. Pursuing Ph.D	18/3/1975	27/1/2009
72	1-3706600193	DEEPA BURA	ASST PROFESSOR	M.Tech, Ph.D	11/8/1979	21/2/2010
73	1-3706600200	VANDNA	ASST PROFESSOR	M Tech. Pursuing Ph.D	24/3/1988	26/8/2011
74	1-3706731227	MOHIT CHOWDHARY	ASST PROFESSOR	M Tech. Pursuing Ph.D	13/1/1983	6/8/2010
75	1-3707636044	MADHUMITA KATHURIA	ASST PROFESSOR	M. Tech, Ph.D	3/5/1982	16/1/2006
76	1-3707636412	MONIKA GARG	ASST PROFESSOR	M Tech. Pursuing Ph.D	30/8/1983	1/7/2008
77	1-3710308743	OCHIN	ASST PROFESSOR	M. Tech, Ph.D	21/7/1978	13/7/2009
78	1-3710308767	NEHA GADHOK	ASST PROFESSOR	M Tech. Pursuing Ph.D	3/8/1983	1/9/2010
79	1-3710474089	SAVITA	ASST PROFESSOR	M Tech., Ph.D	2/10/1985	25/8/2008
80	1-3710474476	ROMISHA	ASST PROFESSOR	M Tech. Pursuing Ph.D	12/9/1988	14/11/2011
81	1-3710474983	NITASHA SONI	ASST PROFESSOR	Ph.D	28/2/1983	28/10/2017
82	1-3710474990	KRITIKA SONI	ASST PROFESSOR	M. Tech, Ph.D	23/2/1984	11/7/2011
83	1-3710621007	PRADEEP Kumar KUMAR	ASST PROFESSOR	M Tech. Pursuing Ph.D	10/4/1986	25/8/2008
84	1-7449340975	SHUBHANGI SRIVASTAVA	ASST PROFESSOR	M.Tech	18/8/1988	6/1/2020
85	1-7449419911	MANISHA VASHISHT	ASST PROFESSOR	M.Tech	1/9/1976	1/10/2019
86	1-8021556637	NEERJA RAWAT	ASST PROFESSOR	B.Tech, M.Tech,(CSE), Pursuing Ph.D (CSE)	8/10/1982	7/1/2009
87	1-3707597034	NEHA GARG	ASST PROFESSOR	M Tech. Pursuing Ph.D	6/6/1985	15/6/2009
88	1-3707597919	SRISHTY JINDAL	ASST PROFESSOR	M Tech. Pursuing Ph.D	14/1/1985	14/2/2007
89	1-3707880927	NIDHI GARG	ASST PROFESSOR	M.Tech	31/7/1985	1/9/2010

90	1-3707927724	PRASHANT DIXIT	ASST PROFESSOR	M.Tech, Ph.D	6/2/1984	16/6/2009
91	1-3710308254	SHOBHA TYAGI	ASST PROFESSOR	M Tech. Pursuing Ph.D	22/2/1978	27/1/2014
92	1-3710308750	AMIT CHUGH	ASST PROFESSOR	M Tech. Pursuing Ph.D	27/12/1982	1/2/2014
93	1-3710474082	MONIKA	ASST PROFESSOR	M Tech. Pursuing Ph.D	4/5/1982	10/9/2007
94	1-3690819884	LEENA NAIR	PROFESSOR	Ph.D	28/5/1970	25/6/2007
95	1-3690913342	ANITA KHOSLA	PROFESSOR	M.Tech., Ph.D	13/4/1973	11/3/2000
96	1-7485534402	HARISH RAI	PROFESSOR	Ph.D	4/6/1955	28/8/2019
97	1-3687806614	ASHISH	ASST PROFESSOR	M Tech. Pursuing Ph.D	21/5/1982	26/7/2010
98	1-3688839312	AMARINDER KAUR	ASST PROFESSOR	M Tech. Pursuing Ph.D	27/8/1980	7/8/2007
99	1-3688839927	RICHA ADLAKHA	ASST PROFESSOR	M Tech. Pursuing Ph.D	30/7/1982	25/1/2012
100	1-3689556685	AMIT ATRI	ASST PROFESSOR	M Tech. Pursuing Ph.D	16/10/1985	23/1/2012
101	1-3690135724	RAJNI SHARMA	ASST PROFESSOR	M.Tech	30/9/1987	3/3/2009
102	1-3690248578	DEEPALI PURI	ASST PROFESSOR	M Tech. Pursuing Ph.D	3/12/1980	27/1/2014
103	1-3690913349	NEHA CHAUDHARY	ASST PROFESSOR	M Tech. Pursuing Ph.D	21/9/1986	24/1/2011
104	1-3688840344	MAHENDRA SONI	PROFESSOR	Ph.D	14/11/1950	6/9/2006
105	1-3689531684	NARESH GROVER	PROFESSOR	Ph.D	19/7/1962	25/9/2006
106	1-3688840362	GEETA NIJHAWAN	PROFESSOR	M Tech., Ph.D	2/5/1972	7/8/1998
107	1-3694836052	ABHIRUCHI PASSI	ASSOCIATE PROFESSOR	M Tech., Ph.D	28/8/1978	15/7/2003

108	1-3695853462	VIMLESH SINGH	ASSOCIATE PROFESSOR	M.Tech, Ph.D	5/11/1979	11/2/2008
109	1-7485415406	YOGENDRA AWASTHI	ASSOCIATE PROFESSOR	Ph.D	15/1/1979	1/5/2019
110	1-3694836059	SHAVETA THAKRAL	ASSOCIATE PROFESSOR	M Tech., Ph.D	24/8/1983	4/10/2004
111	1-3695853434	PRATIMA MEHTA	ASSOCIATE PROFESSOR	M Tech., Ph.D	19/8/1982	13/1/2005
112	1-3695853523	ILA CHAUDHARY	ASST PROFESSOR	M.Tech	2/5/1983	1/7/2010
113	1-3696775211	UMESH DUTTA	ASST PROFESSOR	M.Tech, Ph.D	29/3/1988	1/8/2011
114	1-3697019539	ROMIKA CHOUDHARY	ASST PROFESSOR	M.Tech	22/4/1987	23/7/2011
115	1-3697121086	AMANA YADAV	ASST PROFESSOR	M Tech. Pursuing Ph.D	15/10/1983	27/7/2012
116	1-3697121250	GAGANDEEP KAUR	ASST PROFESSOR	M Tech. Pursuing Ph.D	11/2/1987	27/7/2012
117	1-3695853469	JYOTI VERMA	ASST PROFESSOR	M Tech, Ph.D	25/7/1983	9/8/2010
118	1-3697019532	PRERNA KAKKAR	ASST PROFESSOR	M Tech. Pursuing Ph.D	16/2/1987	7/9/2011
119	1-3689393914	MANOJ KUMAR NAYAK	PROFESSOR	Ph.D	17/8/1969	13/1/2005
120	1-4530393976	MANU SRIVASTAVA	PROFESSOR	Ph.D	22/1/1980	12/7/2018
121	1-3698036836	ABHISHEK KUMAR	ASSOCIATE PROFESSOR	Ph.D	31/7/1975	28/8/2005
122	1-3698036953	VIRENDER NARULA	ASSOCIATE PROFESSOR	Ph.D	27/3/1973	1/7/2013
123	1-3698036960	RAM Kishore SHARMA	ASSOCIATE PROFESSOR	B.Tech, MBA, Ph.D	15/2/1956	24/7/2013
124	1-3700870114	BASANTA Kumar BHUYAN	ASSOCIATE PROFESSOR	Ph.D	6/1/1983	24/1/2014

125	1-3700870132	JOYDEEP CHAKRABORTY	ASSOCIATE PROFESSOR	M Tech. Pursuing Ph.D	29/7/1965	1/2/2014
126	1-3700870193	DEVDUTT	ASSOCIATE PROFESSOR	M Tech., Ph.D	25/8/1979	29/7/2010
127	1-3700870200	DINESH CHAWLA	ASST PROFESSOR	M.Tech, Pursuing Ph.D	12/11/1986	8/2/2011
128	1-3700870227	SHASHI KANT	ASST PROFESSOR	M.Tech	2/2/1987	14/2/2011
129	1-3700870338	BHUPENDER YADAV	ASST PROFESSOR	M.Tech	21/5/1984	22/3/2011
130	1-3700870435	RAJENDER KUMAR	ASST PROFESSOR	M Tech, Ph.D	5/7/1986	16/8/2011
131	1-3701758092	RAJNISH SAXENA	ASST PROFESSOR	M.Tech, Pursuing Ph.D	5/4/1980	13/7/2009
132	1-3701758099	PANKAJ SHAKKARWAL	ASST PROFESSOR	M.Tech	27/9/1973	1/8/2011
133	1-3701791826	ARUN GAUR	ASST PROFESSOR	M Tech. Pursuing Ph.D	26/9/1983	23/7/2012
134	1-3701931127	SUNIL KUMAR	ASST PROFESSOR	M Tech. Pursuing Ph.D	26/2/1988	1/7/2013
135	1-3702011034	SHAILESH Singh SENGAR	ASST PROFESSOR	M.Tech	19/7/1983	1/7/2013
136	1-3702176121	SORABH	ASST PROFESSOR	M.Tech	1/12/1986	1/7/2013
137	1-3702395062	SEEMA MAHTO	ASST PROFESSOR	M.Tech	19/10/1985	15/7/2013
138	1-3703060092	PRATEEK MITTAL	ASST PROFESSOR	M Tech. Pursuing Ph.D	22/11/1987	2/6/2014
139	1-3703060099	ANUBHAV KHANDELWAL	ASST PROFESSOR	M.Tech	2/6/1990	2/6/2014
140	1-3703240933	JIMMY MEHTA	ASST PROFESSOR	M.Tech, Pursuing Ph.D	15/8/1989	26/5/2014
141	1-3703240940	DAIN THOMAS	ASST PROFESSOR	M Tech. Pursuing Ph.D	19/9/1990	2/6/2014
142	1-3705843303	SUSHANT	ASST PROFESSOR	M.Tech	12/10/1986	1/12/2011
143	1-3705843310	VINAY	ASST PROFESSOR	M.Tech	11/12/1988	26/12/2013
144	1-3736751869	JYOTI CHAWLA	PROFESSOR	Ph.D	31/7/1977	1/8/2006
145	1-3736837416	ANUPAMA RAJPUT	PROFESSOR	Ph.D	22/4/1969	10/8/1998
146	1-3737517374	VIJAY KUMAR	PROFESSOR	Ph.D	3/1/1976	8/1/2013
147	1-3737968590	DEEPAK KUMAR	PROFESSOR	Ph.D	15/3/1976	6/10/2008
148	1-3742627224	DEVI SINGH	PROFESSOR	Ph.D	1/1/1962	1/7/2008
149	1-3736964613	MUKTA SHARMA	ASSOCIATE PROFESSOR	M.Phil, Ph.D	6/2/1977	4/10/2004
150	1-3742627552	SARVESH KUMAR	ASSOCIATE PROFESSOR	Ph.D	10/10/1976	28/2/2005
151	1-3742627559	NISHA BANSAL	ASSOCIATE PROFESSOR	M Tech., Ph.D	5/9/1961	21/2/2005

152	1-3744314546	NEERAJ KUMARI	ASSOCIATE PROFESSOR	Ph.D	5/2/1987	16/8/2011
153	1-7449946261	SHAGUFTA JABIN	ASSOCIATE PROFESSOR	Ph.D	1/7/1974	29/7/2019
154	1-3736964620	RAJEEV KUMAR	ASST PROFESSOR	Ph.D	31/3/1980	1/7/2009
155	1-3737788966	POOJA KHURANA	ASST PROFESSOR	M.Sc, M.Phil and Ph.D	18/1/1983	16/6/2009
156	1-3737968583	ARTI SAXENA	ASST PROFESSOR	Ph.D	30/6/1984	30/9/2008
157	1-3742978696	KAPIL GUPTA	ASST PROFESSOR	M.Sc., NET, Pursuing Ph.D	18/9/1984	31/8/2007
158	1-3743808904	VIKRAM SINGH	ASST PROFESSOR	M.Tech, Pursuing Ph.D	3/6/1977	15/7/2009
159	1-3743961242	SANDEEP SRIVASTAVA	ASST PROFESSOR	M.Sc., Ph.D	30/9/1973	9/9/2008
160	1-3761178039	KALPNA VARSHNEY	ASST PROFESSOR	Ph.D	5/10/1980	9/3/2010
161	1-7449780885	BHAWNA MEHTA	ASST PROFESSOR	B.Sc., M.Sc., M.Phil, Ph.D	1/11/1981	22/7/2019
162	1-3696792634	SHYAM Sunder TYAGI	PROFESSOR	Ph.D	8/2/1970	1/7/2005
163	1-3696953294	RASHMI AGRAWAL	PROFESSOR	UGC-NET, Mphil, M.Tech,MBA(IT),DOEACC'B' Level, Ph.D	17/2/1978	18/8/2003
164	1-3697057222	ANUPAMA CHADHA	ASSOCIATE PROFESSOR	M.Tech, MCA, Ph.D (Computer Science)	5/10/1975	16/7/2007
165	1-3697057229	NEHA GUPTA	ASSOCIATE PROFESSOR	Mphil,MCA, DOEACC 'B' level, PhD. (Computer Science),	20/10/1981	3/7/2009
166	1-3697057386	SHAVETA BHATIA	ASSOCIATE PROFESSOR	Mphil(ComputerScience), MCA, Ph.D (Computer Science)	26/12/1978	1/7/2005
167	1-3697101463	SONAL GAUR	ASSOCIATE PROFESSOR	UGC-NET, Mphil,MBA(mgt.),MSc(Math), B.Ed, Ph.D	26/6/1979	1/1/2004
168	1-3697101470	SIDDHARTH VERMA	ASST PROFESSOR	MCA , UGC-NET	31/3/1982	1/6/2009
169	1-3697161237	MRIDULA BATRA	ASST PROFESSOR	Mphil, MCA, Pursuing Ph.D	28/8/1981	16/1/2007
170	1-3697231284	SHARMA SACHIN	ASST PROFESSOR	M.Tech, Mphil,MCA, M.Sc(OR), Ph.D (computerScience)	9/1/1976	1/7/2007
171	1-3697300901	VISHAW JYOTI	ASST PROFESSOR	Mphil, MCA, Pusruing PhD	2/8/1978	18/7/2008
172	1-3697300908	KAVITA ARORA	ASST PROFESSOR	M.Tech. M.Phil, MCA, M.Sc(IT), M.Com, Pursuing Ph.D	24/12/1977	6/9/2014

173	1-7453168792	SANJAY SRIVASTAVA	PROFESSOR	Ph.D	30/3/1970	1/2/2019
174	1-3766465533	SURBHI KAPUR	PROFESSOR	Ph.D	5/12/1966	5/10/2016
175	1-3766568943	DEEPTI Dabas HAZARIKA	PROFESSOR	MBA, M.Phil, Ph.D.	15/11/1979	1/6/2009
176	1-3766639343	ANINDITA Chatterjee CHATTERJEE	PROFESSOR	Ph.D	3/8/1981	28/5/2009
177	1-3766639743	BHAVESH Prakash JOSHI	PROFESSOR	Ph.D, M.Phil, MBA, B.Sc.	24/9/1978	1/3/2016
178	1-4679293283	ANIL SARIN	PROFESSOR	Ph.D Business Administration, M.Com(Co-op Management) PGDM(IMI), D.Lit	21/12/1961	1/6/2011
179	1-4694961618	AMIT SETH	PROFESSOR	Ph.D, PGDBA	30/3/1962	1/3/2016
180	1-7453168799	RAJAT GERA	PROFESSOR	Ph.D	12/12/1966	6/3/2019
181	1-3766712133	FARHAT MOHSIN	ASSOCIATE PROFESSOR	MBA, Ph.D.	25/8/1979	25/7/2014
182	1-3766712361	PRIYANKA SINGH	ASSOCIATE PROFESSOR	MBA, M.Phil & Ph.D	20/10/1979	14/8/2015
183	1-3766712771	GUATAM SRIVASTAVA	ASSOCIATE PROFESSOR	MBA, Pursuing Ph.D	3/4/1967	22/8/2017
184	1-4157960415	MEGHNA CHHABRA	ASSOCIATE PROFESSOR	Ph.D	28/7/1977	13/8/2018
185	1-3766829544	AMANDEEP DHALIWAL	ASST PROFESSOR	MBA, Ph.D	13/9/1980	10/3/2010
186	1-3766958823	GUNJAN KATHURIA	ASST PROFESSOR	MBA	8/1/1985	5/1/2015
187	1-3767015498	SHILPA ARORA	ASST PROFESSOR	MBA, Ph.D Pursuing	1/2/1986	20/3/2010
188	1-3767058466	STUTI SAHNI	ASST PROFESSOR	MBA, Ph.D	15/4/1988	9/2/2011
189	1-7440292548	SAHIL MALIK	ASST PROFESSOR	Ph.D	27/2/1989	11/3/2019
190	1-7452069325	RIDHI KHATTAR	ASST PROFESSOR	MBA, Pursuing Ph.D	22/9/1986	1/7/2019
191	1-4641203378	SANJAY SURYA	PROFESSOR	B.Arch, M.Arch	27/7/1975	14/9/2018
192	1-7491562180	SANJEEV GUPTA	PROFESSOR	B.Arch, M.Arch	17/4/1964	20/11/2019
193	1-4641438959	SAKET JAIN	ASSOCIATE PROFESSOR	B.Arch, M.Arch	19/12/1974	23/7/2018
194	1-3767295302	NIDA HASAN	ASST PROFESSOR	B Arch , Masters in Ekistics	27/12/1990	7/7/2015
195	1-3767416953	ISHITA JINDAL	ASST PROFESSOR	B.Arch	10/3/1990	16/7/2016
196	1-4531124566	DHARMENDRA BHOGAL	ASST PROFESSOR	B.Arch	30/10/1965	23/7/2018
197	1-4641438952	DINESH BHARDWAJ	ASST PROFESSOR	B.Arch	22/5/1954	23/7/2018
198	1-7491562174	ANIKA SINGH	ASST PROFESSOR	B.ARCH, M.Sc	22/12/1985	18/11/2019
199	1-7491562506	SHABEENA	ASST PROFESSOR	M.Sc. Interior Design	9/3/1999	24/1/2014
200	1-7491197859	DEEPESH JAISINGH	ASST PROFESSOR	M.Sc. Interior Design	2/8/1988	6/11/2017

201	1-7491291850	SMRITI SAIGAL	ASST PROFESSOR	B.Interior Design, M.Sc (ID)	7/1/1982	20/8/2014
202	1-7491291856	HITESH KUMAR	ASST PROFESSOR	M.DESIGN, B.ARCH	21/1/1992	13/2/2020

For all Admission related information (Admission Procedure, Criteria and Weightages for Admission, Programme wise Fee, Time schedule for payment of Fee, Criteria for fee Waiver / Scholarship etc) please refer to Website link for Admission Brochure 2020-21 of MRIIRS:

https://manavrachna.edu.in/wp-content/uploads/2019/12/MRIIRS-Brochure-2020-21.pdf

15. Information of Infrastructure and Other Resources Available

INSTRUCTIONAL AREA:

S. No.	Programme	Level	Building No.	Building Name	Room Type	Room No.	Carpet Area Sqm
1	ARCHITECTURE AND PLANNING	UNDER GRADUATE	A	A	Multi-Purpose Hall	AT-15	156.45
2	ARCHITECTURE AND PLANNING	UNDER GRADUATE	C	C	Workshop	CT-02	59.94
3	ARCHITECTURE AND PLANNING	UNDER GRADUATE	C	C	Workshop	CT-03	100.88
4	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Classroom	EF-03	90.09
5	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Studio	EF-06	120
6	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Classroom	EF-10	60
7	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Art Court	EG-02	124
8	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Seminar Hall	EG-07	91.63
9	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Classroom	ES-03	92.89
10	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Laboratory	ES-04	60
11	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Studio	ES-05	120
12	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Seminar Hall	ES-06	41.5
13	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Studio	ES-09	124

14	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Classroom	ET-03	92.89
15	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Computer Laboratory	ET-04	90
16	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Resource Centre	ET-05	91.15
17	ARCHITECTURE AND PLANNING	UNDER GRADUATE	E	E	Studio	ET-09	124
18	DESIGN	UNDER GRADUATE	B	B	Classroom	BS-02	85.58
19	DESIGN	UNDER GRADUATE	B	B	Studio	BS-03	106.29
20	DESIGN	UNDER GRADUATE	B	B	Classroom	BS-04	89.43
21	DESIGN	UNDER GRADUATE	B	B	Laboratory	BS-06	66.55
22	DESIGN	UNDER GRADUATE	B	B	Tutorial Room	BS-07	67.82
23	DESIGN	UNDER GRADUATE	B	B	Laboratory	BS-08	67.27
24	DESIGN	UNDER GRADUATE	B	B	Laboratory	BS-09	112.09
25	DESIGN	UNDER GRADUATE	B	B	Seminar Hall	BS-12	145.4
26	DESIGN	UNDER GRADUATE	B	B	Seminar Hall	BS-13	145.4
27	DESIGN	UNDER GRADUATE	B	B	Laboratory	BS-14	105.16
28	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AF-08	80.1
29	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AF-09A	67.26
30	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Laboratory	AF-09B	74.34
31	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AF-11A	66.7
32	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AF-11B	67.85
33	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AF-11C	70.15
34	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AF-13	76.65

35	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AF-14	76.65
36	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AF-15	92.4
37	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Classroom	AF-16	37
38	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Tutorial Room	AF-17	45.39
39	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Tutorial Room	AF-18	45.39
40	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Classroom	AF-19	37.74
41	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Classroom	AF-20	75.92
42	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AF-21	75.92
43	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AF-23	80.08
44	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AF-24	80.08
45	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AF-25	87
46	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AF-26	87.27
47	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Classroom	AG-17	66.1
48	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AG-20	157.5
49	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Laboratory	AG-21	93.45
50	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AG-22	66.1

51	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AG-23	93.9
52	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AG-25	72.8
53	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AG-29	135.5
54	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AG-30	84.63
55	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Laboratory	AS-03	66.2
56	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Laboratory	AS-04	29.5
57	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AS-08	80.1
58	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AS-09	66.1
59	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AS-10	66.2
60	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AS-11	73.84
61	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Classroom	AS-12	66.2
62	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Classroom	AS-17	76.65
63	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AS-18	76.65
64	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AS-19	92.4
65	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Tutorial Room	AS-21	45.39
66	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Tutorial Room	AS-22	45.39

67	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Tutorial Room	AS-23	37
68	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AS-24	75.92
69	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AS-25	75.92
70	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AS-27	80.08
71	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AS-28	80.08
72	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AS-29	268.47
73	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AT-01	142.5
74	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Laboratory	AT-02	94.17
75	ENGINEERING AND TECHNOLOGY	POST GRADUATE	A	A	Laboratory	AT-04	66.2
76	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Tutorial Room	AT-07	33.64
77	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AT-09	92
78	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AT-10	91.58
79	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Seminar Hall	AT-11	446.4
80	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AT-12	110
81	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AT-17	91.92
82	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AT-18	92.4

83	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Classroom	AT-19	92.4
84	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AT-20	100.8
85	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AT-23	80.08
86	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AT-24	80.08
87	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AT-26	70.63
88	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	A	A	Laboratory	AT-27	70
89	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CF-03	66.9
90	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CF-04	90
91	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CF-05	91.58
92	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Additional Workshop	CF-05A	204.6
93	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CF-06	90.38
94	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CF-07	90.3
95	ENGINEERING AND TECHNOLOGY	POST GRADUATE	C	C	Laboratory	CF-09	52.8
96	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CF-09A	52.8
97	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Tutorial Room	CF-14	55.37
98	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CF-15	68.11

99	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CF-17	66.7
100	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CF-18	56.64
101	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Tutorial Room	CF-19	66.2
102	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Tutorial Room	CF-20	66.2
103	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-02	100.8
104	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-03	66.2
105	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-04	90
106	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-05	90
107	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-07	66.2
108	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-08	67.2
109	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-11	66.2
110	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-12	79.2
111	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-13	90.6
112	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-14	90
113	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-15	67.2
114	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-16	100.8

115	ENGINEERING AND TECHNOLOGY	POST GRADUATE	C	C	Laboratory	CG-21	66.2
116	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CG-22	66.2
117	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CG-27	66.2
118	ENGINEERING AND TECHNOLOGY	POST GRADUATE	C	C	Classroom	CG-28	66.2
119	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CG-29	86.02
120	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CS-01	53.18
121	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CS-02	66.2
122	ENGINEERING AND TECHNOLOGY	POST GRADUATE	C	C	Classroom	CS-03	66.2
123	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CS-04	101.64
124	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CS-05	91.96
125	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CS-06	91.96
126	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CS-08	90.6
127	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CS-09	66.6
128	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CS-10	99.6
129	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Tutorial Room	CS-15	53.01
130	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CS-16	66.2

131	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CS-18	66.2
132	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CS-20	66.2
133	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CS-21	66.2
134	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CT-04	65.45
135	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CT-05	91.96
136	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CT-06	91.96
137	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Drawing Hall	CT-07	90.6
138	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CT-08	90.96
139	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Drawing Hall	CT-16	66.6
140	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Drawing Hall	CT-18	66.6
141	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Drawing Hall	CT-19	88.8
142	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CT-21	68.08
143	ENGINEERING AND TECHNOLOGY	POST GRADUATE	C	C	Classroom	CT-22	66.2
144	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CT-23	66.2
145	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Workshop	CUG-03A	210
146	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CUG-05	78.75

147	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CUG-06	90.44
148	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CUG-07	112.48
149	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	F	F	Laboratory	TUG-11	100.46
150	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	E	E	Laboratory	TUG-02	100.46
151	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	F	F	Laboratory	TUG-10	100.46
152	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Classroom	CT-15	66.9
153	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Workshop	CUG-03	214.4
154	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CG-24	66.1
155	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CUG-02	152.5
156	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	C	C	Laboratory	CUG-04	84.4
157	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BG-06	94.05
158	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BG-08	110.8
159	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BG-15	106.6
160	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BG-16	89.32
161	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BG-17	93.1
162	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BF-02	86.7

163	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BF-03	106.6
164	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BF-04	89.32
165	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BF-05	89.21
166	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BF-13	125.1
167	ENGINEERING AND TECHNOLOGY	UNDER GRADUATE	B	B	Laboratory	BF-06	66.56
168	MANAGEMENT	POST GRADUATE	T	T	Tutorial Room	TG-07	47.57
169	MANAGEMENT	POST GRADUATE	T	T	Classroom	TG-10	100.37
170	MANAGEMENT	POST GRADUATE	T	T	Classroom	TG-11	100.37
171	MANAGEMENT	POST GRADUATE	T	T	Classroom	TG-18	100.37
172	MANAGEMENT	POST GRADUATE	T	T	Classroom	TG-19	100.37
173	MANAGEMENT	POST GRADUATE	T	T	Classroom	TG-23	100.37
174	MANAGEMENT	POST GRADUATE	T	T	Seminar Hall	TUG-16B	229.4
175	MANAGEMENT	POST GRADUATE	T	T	Classroom	TF-15	100.37
176	MANAGEMENT	POST GRADUATE	T	T	Tutorial Room	TF-14	47.57
177	MCA	POST GRADUATE	T	T	Classroom	TF-10	100.37
178	MCA	POST GRADUATE	T	T	Classroom	TF-11	100.37
179	MCA	POST GRADUATE	T	T	Tutorial Room	TF-16	86.43
180	MCA	POST GRADUATE	T	T	Computer Laboratory	TUG-03	100.46
181	MCA	POST GRADUATE	T	T	Seminar Hall	TUG-16A	152.38

INSTRUCTIONAL AREA COMMON FACILITIES

S. No.	Building No.	Building Name	Room Type	Room Id/Name	Area of Room in sqm
1	A	A	Library&Reading Room	AG-15A	80
2	A	A	Language Laboratory	AG-24	111.3

3	C	C	Computer Center	CF-21	110.45
4	C	C	Computer Center	CS-22	107.2
5	C	C	Computer Center	CT-24	110.45
6	E	E	Library&Reading Room	EF-09	61.04
7	T	T	Library&Reading Room	TCL	2,043

ADMINISTRATIVE AREA

S.No.	Building Number	Building Name	Room Type	Room No.	Carpet Area in sqm
1	A	A	Office All Inclusive	AF-01	126.25
2	A	A	Cabin for Head of Dept	AF-02	27.81
3	A	A	Office All Inclusive	AF-03	65.65
4	A	A	Cabin for Head of Dept	AF-04	27.6
5	A	A	Maintenance	AF-05	24.57
6	A	A	Office All Inclusive	AF-06	34.22
7	A	A	Cabin for Head of Dept	AF-07	16.8
8	A	A	Cabin for Head of Dept	AF-10	7.56
9	A	A	Pantry for Staff	AG-02	12
10	A	A	Board Room	AG-05	76.5
11	A	A	Maintenance	AG-13	12
12	A	A	Placement Office	AG-14	326.8
13	A	A	Central Store	AG-26	105.6
14	A	A	Office All Inclusive	AS-01	126.25
15	A	A	Cabin for Head of Dept	AS-02	27.81
16	A	A	Cabin for Head of Dept	AS-05	24.65
17	A	A	Cabin for Head of Dept	AS-06	46.98
18	A	A	Exam Control Office	AS-20	35.5
19	A	A	Cabin for Head of Dept	AT-05	29.58
20	A	A	Cabin for Head of Dept	AT-06	24.36

21	C	C	Cabin for Head of Dept	CF-01	14.23
22	C	C	Office All Inclusive	CF-02	100.6
23	C	C	Cabin for Head of Dept	CG-06	9.14
24	C	C	Cabin for Head of Dept	CG-09	21.34
25	C	C	Office All Inclusive	CG-10	20
26	C	C	Maintenance	CG-18	27.02
27	C	C	Cabin for Head of Dept	CG-23	21.7
28	C	C	Office All Inclusive	CG-25	93.94
29	C	C	Office All Inclusive	CG-26	69
30	C	C	Office All Inclusive	CS-07	90.6
31	C	C	Office All Inclusive	CT-01	48.75
32	C	C	Office All Inclusive	CT-09	66.6
33	C	C	Office All Inclusive	CT-10	100.8
34	C	C	Housekeeping	CT-12	27.36
35	C	C	Cabin for Head of Dept	CT-14	7.83
36	C	C	Cabin for Head of Dept	CT-20	12.8
37	C	C	Office All Inclusive	CUG-08	30.8
38	F	F	Principal Directors Office	FG-02	39.36
39	F	F	Pantry for Staff	FG-04	4
40	A	A	Security	SR-01	12.5
41	T	T	Exam Control Office	TUG-13	100.46
42	T	T	Exam Control Office	TUG-14	46.84
43	T	T	Exam Control Office	TUG-15	46.84

AMENITIES AREA

S. No.	Building Number	Building Name	Room Type	Room No.	Carpet Area in sqm
1	A	A	Boys Common Room	AG-16	137.95
2	A	A	Stationery Store	AG-19	31.9
3	A	A	Girls Common Room	AS-13	101.46
4	B	B	First aid cum Sick Room	BG-14	76.33

5	A	A	Cafeteria	CAF-01	107
6	A	A	Cafeteria	CAF-02	77.42

- Barrier Free Built Environment for disabled and elderly persons : **Yes, Available**
- Occupancy Certificate: **Yes, Available**
- Fire and Safety Certificate **Yes, Available**
- Hostel Facilities: **Yes, Available**

COMPUTATIONAL FACILITIES:

Sr No.	Verification w.r.t. norms – All Programme taken together	Total No. required as per Norms	Total No. available as per physical verification
1.	Internet Bandwidth(in Mbps)	100	210
2.	Printers	31	52
3.	A1 size Color Printers	1	1
4.	Number of PCs in Language lab	20	30
5.	Application S/W	70	70
6.	System S/W	9	9
7.	PCs to Student ratio	559	916

DETAILS OF HOSTEL FACILITIES:

Sr. No.	Particular	Remarks
1.	Availability of Exclusive Hostel facilities for Boys and Girls within the campus	**Yes**
2.	Number of rooms available	Boys: 175 Girls: 70
3.	Number of pax per room	Boys: 446 Girls: 216
4.	Availability of Canteen / Mess facilities within the hostel	Yes
5.	Availability of Internet facilities within the hostel	Yes

Laboratory and Workshop

- List of Major Equipment/Facilities in each Laboratory/ Workshop

Aeronautical Engineering

- 12''Diffused Light Polarioscope, Model Cutter/Polishar

- Wind Tunnel with models for flow visualization (Subsonic, 30cm x 30cm Test Section) with Pitot-Static Tube, Inclined Multitube Manometer, Traverse 2D Ball Screw Type, Airfoils, Cylinder, Flat Plate, Wake Rake, Smoke Generator and 3-Component Balance.
- Aircraft wing and aircraft components and instruments
- ANSYS-13 software (5 User)
- Test Set Up for study of performance of Propeller
- Projection Manometer
- Single Channel Hot Wire Anemometery System
- Water Table with Source, Sink and Doublet
- 12" Diffused Light Polarioscope
- Oblique Incidence Attachment
- Model Cutter
- Model Polisher
- 32 Channel Electronic Pressure Scanner
- Flame Propagation Apparatus
- Complete Experimental Set-ups for conduct of all required lab courses

Automobile Engineering

- 4 Gas Analyser (Petrol)
- Bomb Calorimeter set (Assembly of 6 items)
- Cloud and Pour Point Apparatus
- Flash Point & Fire Point Apparatus
- Grease Drop Point Apparatus
- Grease Penetration Apparatus
- Redwood Viscometer + Energy Regulators
- Say bolt Viscometer + Attachment
- Complete Experimental Set-ups for conduct of all required lab courses
- All relevant parts and machinery required for two-wheeler and four-wheelers
- Dedicated two-wheelers Maintenance lab set up by Honda-Motors
- PNEUMATIC SERVICE JACK FOR MOTORCYCLE
- PNEUMATIC SWITCH & PIPE
- MECHANIC TOOLS TRUSTER (5 DRAWER)
- PARTS TROLLEY (REMOVABLE TRAYS)
- WORK TABLE MOVABLE WITH WHEELS 48" X 24"
- MOISTURE SEPARATOR WITH AUTO DRAIN VALVE
- HYDRAULIC PRESS
- EXHAUST BLOWER
- HAND TOOL KIT (STANLEY)
- MICROMETER (0 - 25MM)
- MICROMETER (25 - 50MM)
- MICROMETER (50 - 75MM)
- MICROMETER (75 - 100MM)
- BORE GAUGE WITHOUT DIAL (18 - 35MM)
- BORE GAUGE WITHOUT DIAL (35 - 60MM)
- BORE GAUGE WITHOUT DIAL (50 - 150MM)
- VERNIER CALIPER 150MM
- VERNIER CALIPER 300MM
- AIR IMPACT WRENCH (3/8") MODEL No. CP7729
- DIAL TYPE TORQUE WRENCH MODEL NO. 900DB3S
- ENGINE TACHOMETER MODEL NO. PET1100R
- BRAKE BLEEDER KIT (PNEUMATIC)
- 3/8" SQ. DRIVE IMPACT SOCKET SET
  (SET OF 13PCS) SIZE : 7 TO 19MM

- TAP & DIE SET (METRIC THREAD)
- TORQUE WRENCH (20 - 140 NM)
- TORQUE WRENCH (5 - 25 NM)
- TYRE PRESSURE GAUGE (DIGITAL DISPLAY - PORTABLE)
- PNEUMATIC CONTROL VALVE & FITTINGS
- SPARK PLUG TESTER & CLEANER
- AIR COMPRESSOR 5HP (MODEL No. 2475) WITH 3 PHASE ELECTRIC MOTOR, STARTER & AUTOCUT
- PORTABLE WASHING PUMP
- Bikes (Unicorn)
- Bikes (Dream)

Biotechnology

- CO2 Incubator
- Refrigerated Centrifuge
- Analytical Weighing balance
- Incubator Shaker
- BIOSAFETY CABINET
- Fluorescence Microscope
- Minus 80 Freezer
- Plant Growth Chamber
- Gel Documentation System
- PCR
- Ice Flaking Machine
- BOD Incubator Cum Shaker
- Cell Distrupter
- In-Situ Fermenter
- Lyophilzer
- Stirred Cell
- Water Purification Unit
- Atomic absorption spectrophotometer
- BOD Incubator cum Orbital Shaker
- HPLC UNIT
- Trilocular Microscope
- Phase contrast microscope
- UV-VIS Spectrophotometer
- ELISA Reader
- NIR Spectrophotometer
- Complete Experimental Set-ups for conduct of all required lab courses

Civil Engineering

- Total Station
- Electronic UTM 1000kN with attachment for bend,shear and hardness testing
- Core cutting machine powered by disel engine
- Pundit Lab ultrasonic testing instruments
- Profoscope plus radar detector
- Concrete test hammer type N
- Marshall Appratus 50kN
- Compression testing machine 2000kN
- Servo Shake Table with 1000X1000mm Table Size and pay load 100 KG Only
- Accelerometer (5nos), Charge amplifier (1)no,In built data acquisition system with PC interface(1)no.
- Experimental models-12 nos
- Mechanical Vertical shake table with eccentric cam

- Complete Experimental Set-ups for conduct of all required lab courses

Computer Science & Engineering

- Hi-End Configuration 1:1 Computer Systems (PCs) in all computer labs
- All required System and Application Software
- Online UPS
- Printers
- Firewall

Electronics & Communication Engineering

- TECHB M. 30. 3D Printer
- Visual; TCAD & Genius Device Simulator (2D/3D)
  1. Visual FAB Simulation
  2. SYMICA EDA (AMS)
- NV 900B Microwave Integrated Circuit Trainer & VSWR Meter
- ST 2272A Satellite Communication Trainer with 14"CTV & DVD Player
- GSM Trainer kit (2133 & 2133AM)
- VLSI design software, Tanner Tool pro Ver. 14.0
- Or-Cad Engg. Suit with
  1 P-Spice A/D
  2 PCB Layout
  3 Capture
- MATLAB (25 User) with all required tool boxes
- ESS-NI-SWB (NI Academic Site License LabView Research Only 10 Users Acdemic Site License, Research Standard Service Sr. No. M80X37595
- NI EL VIS II Hardware) consisting of
  (i) ESS-NI-HWB Sr. No. HC1314287
  (ii) Prototyping Board
  (iii) Power Supply
  (iv) Safety Guide
  (v) Software DVD
- HYPERLYNX 3d EM

Electrical & Electronics Engineering

- Power Quality & Energy analyser
- Scopemeter
- Mitsubishi iQ-R Setup (2 No.s)
- Computers (8CPU+8Keyboard+ 8 mouse) with 8GB Ram
- Digsilent Power system analysis & simulation software
- Labview software
- MATLAB Software
- Labview software
- Matlab Software
- Complete Experimental Set-ups for conduct of all required lab courses

Mechanical Engineering

- VICKER HARDNESS TESTER
- Hydraulic Cylindrical Grinder (Model HL 300/150U)
- PRECISION LATHE MACHINE
- MIG WELDING MACHINE (2 No)

- Tool maker microscope
- High Speed Precision Lathe
- Gear Roller Tester (Parkinson Type)
- Floating Carriage Micrometer
- 10 Ton Power Press Complete with Two hand safety device with counter box
- MATLAB
- Kaplan Turbine Test Rig. Output Power 1KW with Kriloskar make pump set, L&T make starter Mechanical Dynamometer and Stainless Steel-304 Grade Tank
- Three Cylinder Four Stroke MPFI Petrol Engine test Rig for Morse Test
- Single Cylinder four Stroke Petrol Engine Test Ring (Honda make New Engine and Exhaust Gas Calorimeer made of Stainless Steel) with Eddy Current Dynamometer.
- Universal Vibration Apparatus
- CNC Lathe Trainer
- CNC Milling Trainer
- Pelton Wheel Turbine Test Rig
- Francis Turbine Test Rig
- PLC Trainer with modules, Scientific dual power Supply
- Scientific Function generator X-Y Table
- H Simulation, P-Simulation Robox
- PLC - Simulation
- Milling m/c (4 Nos)
- Complete Experimental Set-ups for conduct of all required lab courses
- TIG Welding machine
- Radial drill machine
- Moulding Machines
- High Temperature Muffle Furnace
- Melting Furnace
- JIG Saw Machines
- Sander
- Planner
- Chop Saw
- Drill machine
- Power Press

Chemistry

- Digital Portable Density Meter
- Mini Potentiostat with Software
- UV Visible Spectrophotometer
- Viscometer
- Complete Experimental Set-ups for conduct of required lab courses for BTech Programmes

Physics

- Hall Effect Setup (Electromagnet, Power supply for electromagnet, Gauss Meter, Power supply for Hall probe and Hall probe with semiconductor)
- Numerical Apperture setup Optical Fibre Setup (Optical Fibre, Laser source, Optical Bench)
- Laser Setup (Laser, Optical Bench, diffraction grating)
- Magnetic field from Helmholtz coil (Digital Gauss meter, Power supply, Helmholtz coil)
- B-H curve apparatus(CRO, B-H curve kit, wires of steel Iron and Cr)
- Ultrasonic waves apparatus(spectrometer, sodium lamp, quartz crystal with tank)
- Quinck's tube apparatus (electromagnets, power supply, Gauss meter, Travelling microscope, qunick tube with stand)

Computer Applications

- Hi-End Configuration 1:1 Computer Systems (PCs) in all computer labs
- All required System and Application Software
- Online UPS
- Printers
- Firewall

Architecture & Design

- Hi-End Configuration 1:1 Computer Systems (PCs) in Computer Lab
- Printers
- UPS
- PLOTTER
- State-of-the-art Studios

- Computing Facilities

  - PCs/Laptop exclusively available to students: 916
  - PCS/ Laptop available in Library: 30
  - PCs/Laptop available in Administrative Office: 151
  - PCs/Laptop available to Faculty members: 295
  - Number of PCs/Laptops in language lab: 30
  - Printers available to students: 52
  - Number of A1 size colour Printers: 1
  - Number of legal system software: 8
  - Number of legal application software: 60

- Internet Bandwidth : 155 Mbps
  - Number and configuration of Computer Systems available: 1108 in computer labs + 864 at other places including faculty and class rooms. Spec: C2D, Pentium, i3, i5 and i7 with RAM varies from 4GB to 32 GB depending on the location
  - Total number of system connected by LAN: all machines are connected through LAN
  - Total number of system connected by WAN: All machines are connected to WAN through Firewall (UTMs)

- Major software packages available

List of application software are as under:

- Flash 8
- Photoshop 7.0

- SQL Software
- VS 2010 professional
- Wamp Server
- Win Root
- Dot Net Framework 4.5 NDP
- J2SDK-1_3_0_01-Win.exe
- Jre-6U1_win_i586_P.exe
- MySql-Connector -ODBC
- Putty.Exe
- Turbo C++ 3.2.2.0.Zip
- MS Office
- AdbeRdr11002_en_US
- AntiVirus 10.0
- Orcad
- Tanner
- Creo
- Autocad
- Catia
- Cutviewer Turning
- Cutviewer milling
- Stad pro
- Ansys
- Digsilent
- SCADA
- GX WORKS3
- C/C++,
- R STUDIO,
- IBM COGNOS
- Oracle server
- Putty
- BPM
- Vmware
- Netbeans
- JAVA
- Infosphere
- My SQL
- SCI Lab
- Language Lab software
- NRCS
- NURENDO
- CLASS X CG SOFTWARE
- Adobe License
- Sql Server Standard Edition
- Microsoft®WINEDUperDVC AllLng Upgrade
- Oracle 11g Standard one Edition for Windows/Linux
- Prolog (First License)

- Prolog Additional License (Per User)
- IBM Rational Seed
- Embarcadero RAD Studio XE Architect Networked Named User License
- Adobe Flash Pro CS5 Edu Lic-ESD
- STAAD PRO
- HYPERLYNX 3d EM
- RTOS Software(µ-cos) + LPC Development Board
- VLSI design software, Tanner Tool pro Ver. 14.0
- XLINX ISE 13.1
- Or-Cad Engg. Suit with
  1 P-Spice A/D
  2 PCB Layout
  3 Capture
- MATLAB 7.0 , Simulink
- MATLAB , Simulink
  Toolboxes:
  1 Signal processing
  2 Filter design
  3 Signal processing Blockset
- Signal processing
- Filter design
- Control System
- Communication
- Neural Network
- Statistics
- Communication Block set
- Signal processing Block set
- MATLAB
- Simulink
- Symbolic math toolbox
- DSP System tool box
- Comunication system toolbox
- Image processing toolbox
- Fuzzy logic toolbox
- Neural network toolbox
- Control system toolbox
- optimization toolbox
- Global optimization toolbox
- Robust controle toolbox
- Aerospace toolbox
- Antenna toolbox
- MATLab
- Lab View
- Sony media Sound Forge 10.0
- Quark Express 10.x
- PTC Creo Lab Pack Bundle

- Quick Heal

- Special purpose facilities available:

- **Innovation Cell**

Research and Innovation Clusters

Research and Innovation Clusters (RICs)

Research plays a significant role in the process of conceptual thinking, learning and innovation. Since its inception, the Institutions have been striving to achieve excellence in education and research in consonance with the contemporary and future needs of India through meaningful education, original research and leadership in technological innovation for the industrial growth of the Country. With the path-breaking innovations in both its curriculum & research, the Institution is rapidly gaining a legendary reputation globally.

Research and Innovation Clusters provide technology and innovation support whereas Incubation helps the students to develop practical business models as startups or spin offs to become student entrepreneurs for working towards Government of India policy of “Make in India”.

Taking the culture of research and innovation forward, team of Manav Rachna Innovation and Incubation Centre started working since 2011 to establish innovation labs in the area of Mechanical and Electronics. After preparing policies, strategizing the systematic approach to research innovation, and testing a pilot run of the Centre was officially inaugurated on January 01, 2014.

We live in a knowledge-driven economy, where Research and Development has become the key to sustainable economic growth, creating in the process, a competitive edge. Across its 20-year journey with many a milestones to its credit, Manav Rachna has taken on the challenge of yielding applicable knowledge and dedicating itself towards several path breaking Research and Development initiatives. More recently, the Institution has created a 'Research and Innovation' culture at the Undergraduate level through Innovation & Incubation at MRIIC.

The Institutions have thirty academic departments, one Research Incubator (RI), eight Research & Innovation Clusters (RICs), one Business Incubator (BI), one dedicated IPR Cell and nine Centres of Excellence (CEs). A grant of Rs. 2.87 Crore have been sanctioned by EDII, Ahmadabad through DST, Govt. of India for setting-up of NewGen Innovation and Entrepreneurship Development Centre (IEDC), Ministry of HRD, Govt. of India from Ministry of Skill Development and Entrepreneurship.

Presently, 08 Research and Innovation Clusters namely Mechanical, Automobile & Aerospace, Electronics & Electrical, Computing, Molecular Biosciences, Health Sciences & Nutrition, Civil & Architecture Design, Material Science and Atmospheric & Environment are actively engaged in research projects by adopting interdisciplinary approach in addition to other activities like Competitions & Projects, Publishing, Sponsored R&D projects, Training in Advanced Areas or future technologies, Product Development, Collaboration & Consultancy & Patents & IPR.

STARTUPS UNDER MANAV RACHNA BUSINESS INCUBATOR				
S.No.	**Team Name**	**Team Members**	**Department**	**Area**
1	Techno Planet Labs Pvt. Ltd.	Mohit Bahl Manasvi Sihag	ECE	S.T.E.M. Education and Lab setup in Schools
2	HyFn Games Pvt. Ltd.	Rakesh Sethi Yugank Rastogi	CSE	Sci-Fi Game Development and Virtual Reality
3	Tricho Agronica Pvt. Ltd. (Funded by IOCL)	Dr. Nidhi Didwania Dr. Deepti Sadana	Biotech	Innovative tomato seeds for better cropping
4	Parimukh Innovations Pvt Ltd. (Funded by Rajasthan Govt. and CPCB)	Dr. B.S Gill Amit Kumar Singh Prachie Sharma	Mechanical & Biotech	Vehicular Air Filters for outdoors

STARTUPS UNDER MR NEWGEN IEDC - DST, Govt. of India Project (24)				
Team Name	**Team Members**	**Area**	**Date of Startup**	**Date of commencement**
TFT (coating Vala)	Aman Nishchal Vansh Mittal	Surface Protector	2/22/2019	7/15/2018
Synsalus technoMed	Sunash Malik Vaibhav Dagar Yash Kaushik	Medical Data Management		7/6/2018
Naturoplast	Mandeep Gulati	Biodegradable Plastic	7/10/2018	7/27/2018

N2 Innovations	Bhupathi Nitish Kumar	Agriculture -Rice Planting Machine	7/10/2018	7/25/2018
Ferox Technologies	Karan Sehgal	Agriculture- E Tractor	7/10/2018	7/25/2018
Organic Farm Fresh	Sabia Imran	Mushroom Spawn Cultivation	2/5/2019	5/15/2019
Pinaca	Ashutosh Sharma	Smart toothbrush	2/5/2019	6/19/2019
VADS Creation	Parth Jaiswal Vineet Kumar	E-Commerce platform for regional ethnic retailers	4/3/2019	5/22/2019

STARTUPS UNDER MR NEWGEN IEDC - DST, Govt. of India Project				
Team Name	**Team Members**	**Area**	**Date of Startup**	**Date of commencement**
Lynista Gaming	Yatharth Singh Akash Atri	Cross Platform Game development	4/3/2019	6/12/2019
Metro Masti	Suraj Kumar	Mobile App for the Metro travelers	4/3/2019	4/3/2019
Smart Water Sprinkler	Jahnvi Aggarwal	Smart water sprinkler for domestic and commercial usage	5/10/2019	8/26/2019
Nutri Fresh	Esha Jain Mahika goel Shreya Pasricha	Sugarfree Basil seed mouth freshner	2/5/2019	11/5/2019
Orchard India	Rohan dhawan Himanshu garg	Economical harvestor attachments with specially designed trailer	10/22/2019	11/15/2019
Medical Tourism	Priyanka Gera Anurag	An integrated platform for all medical requirements sought by foreign travellers in India	10/22/2019	1/2/2020
One Touch	Dhruv Rohatgi Siddharth Srivastava	Smart Switches and IOT solutions for Domestic Applications	10/22/2019	11/22/2019
Bliss Board	Parul Taneja	Smart and portable Bliss	10/22/2019	7/11/2019

	Deepak Rana Mukul Singh	Board (braille board) for blind people to interact well with their smartphones and communicate well on social media handles.		

STARTUPS UNDER MR NEWGEN IEDC - DST, Govt. of India Project		
Team Name	**Team Members**	**Area**
Tackyon Motorsports Pvt Ltd	Kartik Rampal Aayush Mohan	Electronic Utility Vehicles
Aarkaya Solar Solutions Pvt. Ltd	Shivendra Chauhan Bilaval Aziz	Solar Solutions
Halestein Foodlabs LLP	Anshu Jha Pranav Jha	Traditional Healthy Food and Beverage recipes
Thapkrida LLP	Sahil Tanwar Mukul Phogat	Consumer Software Game Development
Vagabond Brains	Chaitanya Singh Rana Saurabh Singh	Digital Marketing Service
Greenity	Shivam Mahajan Shradhha Bhatia	Smart Chair which generates energy
Campus Dock	Vivek Rajput Meetesh Mehta	Mobile application for college students

Some Prominent Alumni Startups (Out of Total 70+)

Team Name	Team Members	Area
Celebrating Freedom	Natasha Sharma	Social Welfare (run events for social cause)
Webnell Online Entertainment	Nitika Arora	Online Entertainment
A Square Innovations	Abhimanyu Bhagat	Manufacturing and Trading of Retractable Modules
Bluei Technology	Akhilesh Chopra	Manufacturing (Power Bank, Chargers, etc)
A2Z e Waste Management Limited	Ajay Ahuja Karan Ahuja	Electronics and Electrical wastes
Wizwig Learning and Solutions Pvt. Ltd	Dikshant Malik	Educational Training, Public Speaking
RC Infinity Pvt. Ltd.	Rahul Chauhan	Exporter / Manufacturer / Supplier (Electronic products)

Vibrant Research ecosystem has materialized through:

- Tie-ups with National Research Organizations
    - Translational Health Science & Technology Institute (THSTI)
    - Indian Oil Corporation Limited (IOCL) R&D Center, Faridabad
    - National Institute of Immunology (NII), New Delhi
    - Defence Research and Development Organization (DRDO)
    - National Bureau of Plant Genetic Resources (NBPGR), New Delhi
    - Indian Institute of Petroleum, Dehradun

- **Social Media Cell**

Manav Rachna has a team of multi-disciplinary experts in its social media cell. The team comprises experts in Digital Marketing, Media and PR, Content Development, Social Media Management and SEO.

The Digital Marketing Experts plan strategies and execute marketing designs and activities to establish and maintain brand image in the market.

The SEO specialist ensures that the relevant stakeholders can easily access all Manav Rachna platforms.

A team of content writers is responsible to develop and create content for print and digital media. Well researched and accurate content is produced on tight deadlines.

Media and PR experts devise creative public relations strategies and PR plans.

- Compliance of the National Academic Depository (NAD), applicable to PGCM/ PGDM Institutions and University Departments

  As per the given mandate by MHRD, 19701 (degree and transcripts) of pass out batch stands uploaded on the NAD (through CDSL) till 05.02.2020

- List of facilities available
- **Games and Sports Facilities**

  - Indoor Sports Arena with the facilities of one Badminton Court, 8 T.T Tables, 3 Billiards Tables & 3 Pool Tables. (Common Facility).
  - Gym, Fully Air-Conditioned Squash Court.
  - Cricket Ground, Soccer Ground, Volley-Ball Court and 3 Basket Ball Courts.
  - Shooting Ranges

  - **Extra-Curricular Activities**

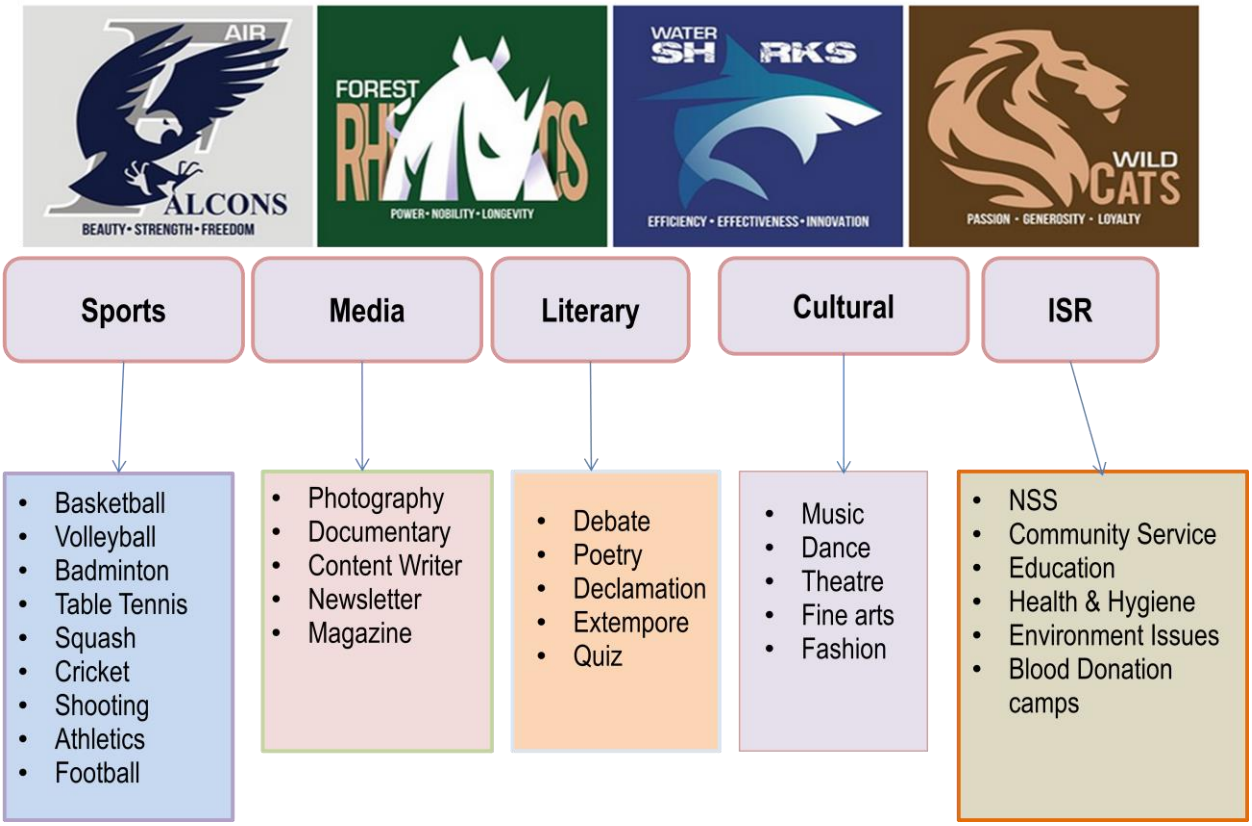
CLUBS/ GROUPS/ SOCIETIES/TEAMS IN VARIOUS DEPARTMENTS			
S.NO	**DEPARTMENT**	**CLUB/GROUP/SOCIETY/**	**TOTAL**
1.	Hotel Management	Front Office Club	04
		Housekeeping Club	
		Food Production Club	
		F&B Service Club	
2	MBA	Entrepreneurship Club	04
		CSR Club	
		Literary Club	
		Student Placement	
3	Department of Commerce	Finance Club	06
		Marketing Club	
		CSR Club	
		Extracurricular Club	
		Sports Club	
		Literary Club	
4	Department of Computer Applications	Uthaan Club	01
5	Department of Automobiles	'SAE collegiate club	01
6	Department of Applied Science	Green Chemistry Club	01
7	Department of Electrical & Electronics Engineering	Electro folks	03
		Faraday's Club	
		IEI students	
8	Department of Computer Science & Engineering	Cyber Security Club	07
		Graphics Club	
		Google Developers Students Club	
		IEEE Technical Society	
		CSI Technical Society	
		ACM Technical Society	
9	Manav Rachna Dental College	Prameya	01
10	Department of Biotechnology	Biotechnia Club	02
		Club Environ	
11	Department of Aeronautical Engineering	Aeromodelling Club	01
12	Department of Applied Psychology	Mental Health Club	04
		Alumni Club	
		Art Therapy Club	
		Entrepreneurship Club	
13	Department of Student's Welfare	Music Society	09
		Dance Society	
		Fashion Society	
		Theatre Society	

		Fine Arts Society	
		National Service Scheme	
		Photography Club	
		Health Club	
		Literary Forum	
14	Department of Sports	Basket Ball Team (Boys)	08
		Cricket Team (Boys)	
		Volley Ball (Boys)	
		Volley Ball (Girls)	
		Table Tennis (Boys)	
		Table Tennis (Girls)	
		Badminton (Boys)	
		Badminton (Girls)	
		Football (Team)	
15	Department of Business Studies	CSR Club	04
		Literary Club	
		Marketing Club	
		Finance Club	
TOTAL			56

Student Chapters of Professional Societies

- IETE Institution of Electronics and Telecommunication Engineers
- IEEE Institute of Electrical and Electronics Engineers
- ISTE Indian Society for Technical Education
- CSI Computer Society of India
- SAE Society of Automobile Engineers
- ASHRAE American Society of Heating, Refrigeration and Air Conditioning
- ASME American Society of Mechanical Engineers
- IEI Institution of Engineers (India)
- IGBC Indian Green Building Council (IGBC)

CLANs: Wild Cat, Water Shark, Air Falcons, Forest Rhinos



- **Soft Skill Development Facilities:**

The institute has full-fledged Corporate Relationship and Career Management Cell (CRCMC) which is dedicated at not only providing a world of opportunities to the students but also in equipping them with the right blend of skills to encashed to every opportunity that comes their way. This cell constantly engaged with industry and strives for expanding the Industry Academia Interface through close and regular interaction with the leading recruiters regarding knowledge and skills requirements of the Industry, we incorporate the feedback / advice to make our students more industry ready and job ready. Moreover it keeps abreast with the needs of the job market during interactions with the industries to provide valuable inputs to the teaching faculty regarding the market relevant skills so as to prepare our students to become more employable, equipped with market ready skills.

CRCMC does comprehensive psychometric profiling for Career Assessment when the student enters the institution and provides a robust mechanism for imparting training and personality, soft skills, aptitude and professional communication spread across semesters as an embedded part of every course at Manav Rachna.

Key Focus Area CRCMC"

Scientifically proven assessments through leading industry accepted assessment platforms along with online assignments in line with latest placement test pattern Special Emphasis on Verbal Ability, Experiential learning and Video based learning Customized and exhaustive aptitude handbook Value added courses in foreign languages, SAP and preparation for competitive examinations and civil services amplify chances of employment and further studies Career Infirmary to provide guidance and counseling to students regarding academics and career related issues Preparatory drill - "Career Breakthrough" to prepare students for real time placement scenarios Ongoing relationships with leading corporate to help provide guidance on latest trends, and provide employment and training opportunities through Industrial visits, Industrial training, corporate lectures etc.

Communication Gym:

Communication is the lifeblood of any transaction that takes place in the world and hence communication ability is the most sought after non-academic skill by employers all over the world - irrespective of the industry or the job profile. Manav Rachna in collaboration with Vision Net devised an integrated, one of its kind language lab for providing its students state of the art facilities to make communication enhancement engaging and fun filled. The language lab called the "Communication Gym" uses a unique blend of Trainer-led and Self-Led learning. This methodology exposes the learner to both real-life scenarios and situational learning using simulation techniques, coupled with cutting-edge technology and multimedia rich content. Manav Rachna is proud to bring this feature to its students & is certain that it will help them gain the much required edge in this competitive world.

- **Teaching Learning Process**

  - With the spirit of Outcome-based Education, design and development of curriculum involves processes incorporating intervention by faculty, alumni and experts from industry and academia.
  - Major steps for design and development of the curriculum:
    - Initial planning of the need-based programme structure with well defined PEOs. POs and PSOs keeping Model Curricula for different programmes given by AICTE and UGC, as reference.
    - Initial planning of course contents for each course with COs.
    - Informal discussion with faculty members, students and alumni.
    - Formal discussions by involving Experts from Industry and Academia.
    - Approval by Academic Council after recommendations of BOS and BOF.
  - Curriculum comprises Foundation, Core, Elective Courses (Discipline, Open and Generic) and Value added courses; and that gives academic flexibility.
  - Choice Based Credit System (as per UGC guidelines) designed, structured and implemented w.e.f. Academic Year 2015-16.
  - Curriculum design embodies skill development, knowledge acquisition, employability and entrepreneurship.
  - Enrichment Courses like: soft skills, quantitative aptitude, foreign languages, personality development, holistic wellness & life skills enhance placement of the students.

- Academic Collaboration with industry leaders like IBM, Google, Intel, Infineon, KPMG, JBM, Mitsubishi, Honda, ICICI Securities, BSE ; to design, develop and deliver industry oriented programmes/ courses.
- The curricula of all the programmes revised during last 3 years by taking inputs from various stakeholders.

Pedagogy delivery supplemented by

- Substantial use of ICT in teaching-learning process- PPTs, internet, MOOCs, NPTEL, NDL.
- Soft skill and Personality Enhancement classes.
- Career guidance and counselling workshops.
- Industrial Visits, Experience sharing sessions with Entrepreneurs and Expert lectures from industry.
- Debate , Quiz Competition, Panel discussions, Open House Sessions, Group Discussions and Seminars.
- Survey based field work, projects and Case Studies.
- Film screenings and Documentary preparation.

Student – Centric Learning:

- Holistic Wellness and Life Skills adequately addressed
- Focus on skill-centric curriculum to incorporate technology advances.
- Emphasis on self-learning, learning through internet resources, open courseware transcending the prescribed syllabus.
- Design problems, quantitative techniques, problem solving based on fundamentals and laboratory work in well-stocked laboratories emphasized.
- Students trained in application aspects along with conceptual understanding.
- A large number of electives relevant to the needs of industry offered.
- Industrial training is embedded in the curriculum.
- Regular Co-curricular activities and technical/skill-based competitions within Department/Faculty, intra-university and inter-universities.
- Participation of Students in Seminars, Conferences, Workshops in external environment.
- Manav Rachna Research, Innovation and Incubation Centre (MRIIC) well equipped with design, development and fabrication facilities acts as a facilitation centre for the students in realizing their dream projects.

• Curricula and syllabus for each of the programmes as approved by the University

Study Schemes- B.Tech

Study Scheme – Aeronautical Engineering

(COMMON FOR ALL B.TECH. PROGRAMMES)					
SEMESTER-I					
Subject	**Subject**	**Periods/Week**	**Marks**	**Durat**	**Credit**

Code		L	T	P	Total	Int	Ext	Total	ion of Exam	s
PH-101B	Applied Physics-I	3	1	0	4	50	100	150	3 Hrs	4
MA-101A	Applied Maths-I	4	1	0	5	50	100	150	3 Hrs	5
CH-101A	Industrial Chemistry	3	0	0	3	50	100	150	3 Hrs	3
HM-104	Professional Communication -I	2	0	0	2	50	50	100	2 Hrs	2
CS-101	Elements of Computer and Programming	3	1	0	4	50	100	150	3 Hrs	4
EE-101B / EE-102A	Elements of Electrical Engineering (For All CSE,ECE,EEE) / Elements of Electrical and Electronics Engineering (For AE, AU, BT, Civil, All Mech)	3	1	0	4	50	100	150	3 Hrs	4
PH-111 / CH-111	Physics Lab (For All CSE, ECE, EEE) / Chemistry Lab (For AE, AU, BT, Civil, All Mech)	0	0	2	2	25	25	50	2 Hrs	1
CS-111/ M-111	Computer Programming Lab (For All CSE, ECE, EEE)/ Computer Aided Drafting Lab (For AE, AU, BT, Civil, All Mech)	0	0	2	2	25	25	50	2 Hrs	1
WP-111 / WP-112	Workshop Practices - I (For AE, AU, BT, Civil, All Mech) / Workshop Practices - II (For All CSE, ECE, EEE)	0	0	3	3	75	50	125	2 Hrs	1.5
	Total (For All CSE, ECE, EEE) /AE, AU, BT, Civil, All Mech)	**18/ 18**	**4/4**	**7/7**	**29/ 29**	**425/ 425**	**650 / 650**	**1075/1 075**		**25.5/ 25.5**
CS-104	Introduction to Open Source Software and Open Standards*	2	0	0	2	50	100	150	2 Hrs	2
	Total (For IBM Courses)	**20**	**4**	**7**	**31**	**475**	**750**	**1225**		**27.5**
SEMESTER-II										
PH-201B	Applied Physics-II	3	1	0	4	50	100	150	3 Hrs	4
MA-201A	Applied Maths-II	3	1	0	4	50	100	150	3 Hrs	4
CH-202A	Environmental Studies	3	0	0	3	50#	100	150	3 Hrs	3+1#
HM-204	Professional Communication -II	2	0	0	2	50	50	100	2 Hrs	2
HM-205	Holistic Wellness & Life Skills-I**	1	0	0	1	50	50**	100	2 Hrs	1
EC-202 / M-201 /BT-201	Digital Electronics and Circuits (For All CSE, ECE, EEE) / Applied Mechanics (For AE, AU, Civil, All ME) / Biomolecules (For BT)	3	1	0	4	50	100	150	3 Hrs	4

CS-203/ CS-205 EC-201/ AE-201/ M-202 / C-201 / BT-202	Elements of Discrete Structures (For CSE) / Web Programming through PHP & HTML (For CSE -IBM) Analog Electronics (For ECE, EEE) / Basics of Aeronautical Engineering (For AE) / Engineering Materials & Heat Treatment (For AU, All ME) / Construction Materials (For Civil) / Genetics and Cytogenetics (For BT)	3	1	0	4	50	100	150	3 Hrs	4
M-111 / CS-111	Computer Aided Drafting Lab (For All CSE, ECE, EEE) / Computer Programming Lab (For AE, AU, BT, Civil, All Mech)	0	0	2	2	25	25	50	2 Hrs	1
PH-111 / CH-111	Physics Lab (For AE, AU, BT, Civil, Mech) / Chemistry Lab (For All CSE, ECE, EEE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111 / WP-112	Workshop Practices - I (For CSE, ECE, EEE) / Workshop Practices - II (For AE, AU, BT, Civil, All Mech)	0	0	3	3	75	50	125	2 Hrs.	1.5
EC-212 / M-211 / BT-211	Digital Electronics and Circuits Lab (For CSE, ECE, EEE)/ Applied Mechanics Lab (For AE AU, Civil, All ME) / Biomolecules Lab. (For BT)	0	0	2	2	25	25	50	2 Hrs	1
	Total (For All CSE, ECE, EEE) /AE, AU, BT, Civil, All Mech)	18/18	4/4	9/9	31/31	500/500	725/725	1225/1225		27.5/27.5
CS-215	Web Programming through PHP & HTML Lab*	0	0	2	2	25	25	50	2 Hrs	1
	Total (For IBM Courses)	**18**	**4**	**11**	**33**	**525**	**750**	**1275**		**28.5**

*** Additional courses only for the programme of B.Tech. Computer Science & Engineering in Association with IBM with various specialization. ** Classes will be conducted in a batch size of 30 students and external evaluation will be conducted by a duly constituted committee of internal examiners through a viva-voce examination / practical exercises during the end-semester practical examinations.**
 # 01 extra credit for Field Visits. The breakup of total 50 internal marks includes 20 marks for sessional tests, 5 marks for attendance and remaining 25 marks for Field Work & Report Writing / Model Making.

Workshop Practices Detail

WP-111	Workshop Practices- I	Electrical, Electronics, Computer H/W Shop
WP-112	Workshop Practices - II	Machine, Fitting & Sheet Metal, Welding

SEMESTER-III

Subject Code	**Course**	**Periods/Week**				**Marks**			**Duration of Ext. Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int.**	**Ext.**	**Total**		
AE-404	Aircraft Materials	3	0	0	3	50	100	150	3 Hrs	3
M-302	Thermal Engineering-I	3	1	0	4	50	100	150	3 Hrs	4

M-303A	Manufacturing Technologies-I	4	0	0	4	50	100	150	3 Hrs	4
M-304A	Fluid Mechanics	3	1	0	4	50	100	150	3 Hrs	4
M-403A	Strength of Materials	3	1	0	4	50	100	150	3 Hrs	4
HM-403B	Quantitative Aptitude and Personality Development-I	2	0	0	2	50	50	100	2 Hrs	2
AE-300	Introduction to Research	0	1	0	1	50	0	50	-	1
AE-311A	Elements of Aeronautical Engineering Lab	0	0	2	2	25	25	50	2 Hrs	1
M-311	Fluid Mechanics Lab	0	0	2	2	25	25	50	2 Hrs	1
M-313A	Computer Aided Drafting Lab	0	0	2	2	50	50	100	2 Hrs	1
M-312	Strength of Materials Lab	0	0	2	2	25	25	50	2 Hrs	1
	Total	**18**	**4**	**8**	**30**	**475**	**675**	**1150**		**26**
SEMESTER-IV										
AE-401	Aerodynamics -I	3	1	0	4	50	100	150	3 Hrs	4
AE-402A	Aircraft Structures -I	3	1	0	4	50	100	150	3 Hrs	4
AE-403	Aircraft Propulsion-I	3	1	0	4	50	100	150	3 Hrs	4
M-604	Heat Transfer	3	1	0	4	50	100	150	3 Hrs	4
CS-405	Cyber Security	2	0	0	2	25	50	75	2 Hrs	2
MA 302	Maths III	3	0	0	3	50	100	150	3 Hrs	3
AE-400	Technical Seminar-I	0	1	0	1	50	0	50		1
HM-404	Holistic Wellness & Life Skills-II	1	0	0	1	50	50	100	2 Hrs	1
AE-411	Aerodynamics-I Lab	0	0	2	2	25	25	50	2 Hrs	1
AE-412	Structures -I and Materials Lab	0	0	2	2	25	25	50	2 Hrs	1
M-612	Heat Transfer Lab	0	0	2	2	25	25	50	2 Hrs	1
M-417	Advanced CAD Lab	0	0	2	2	50	50	100	2 Hrs	1
	Total	**18**	**5**	**8**	**31**	**500**	**725**	**1225**		**27**
Note :	**Students admitted directly in 2nd year of B.Tech programme under lateral entry scheme after 3 years diploma in any branch of engineering shall have to pass additional two courses of Applied Mathematics i.e. MA-341A (L,T,P of 3,1,0 and 4 credits) in III semester and MA-441A (L,T,P of 3,1,0 and 4 credits) in IV semester respectively.**									

SEMESTER-V

Subject Code	**Course**	**Periods/Week**				**Marks**			**Duration of Ext. Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int.**	**Ext.**	**Total**		
AE-501	Aerodynamics - II	3	1	0	4	50	100	150	3 Hrs	4
AE-	Aircraft Propulsion-II	4	0	0	4	50	100	150	3 Hrs	4

502										
AE-503A	Aircraft Structures- II	3	1	0	4	50	100	150	3 Hrs	4
MA-501	Numerical Methods and Optimization Techniques	3	1	0	4	50	100	150	3 Hrs	4
AE-504	Flight Mechanics - I	3	1	0	4	50	100	150	3 Hrs	4
	Generic Electives-1	2	0	0	2	50	50	100	2 Hrs	2
AE-500	Technical Seminar-II	0	1	0	1	50	0	50		1
HM-505A	Quantitative Aptitude and Personality Development-II	2	0	0	2	50	50	100	2 Hrs	2
AE-511	Aerodynamics-II Lab	0	0	2	2	25	25	50	2Hrs.	1
AE-518	Aircraft Propulsion Lab	0	0	2	2	25	25	50	2 Hrs	1
MA-511	Numerical Methods Lab	0	0	2	2	25	25	50	2 Hrs	1
M-517	CIM Lab	0	0	2	2	25	25	50	2 Hrs	1
	Total	**20**	**5**	**8**	**31**	**500**	**700**	**1200**		**29**
	SEMESTER-VI									
AE-603	Flight Mechanics-II	3	1	0	4	50	100	150	3 Hrs	4
AE-604	Aircraft Design	3	1	0	4	50	100	150	3 Hrs	4
M-601A	Operations Research	3	1	0	4	50	100	150	3 Hrs	4
	Program Electives-1	4	0	0	4	50	100	150	3 Hrs	4
	Program Electives-2	4	0	0	4	50	100	150	3 Hrs	4
	Generic Electives-2	2	0	0	2	50	50	100	2 Hrs	2
HM-603A	Quantitative Aptitude and Personality Development-III	2	0	0	2	50	50	100	2 Hrs	2
HM-604	Holistic Wellness & Life Skills -III	1	0	0	1	50	50	100	2 Hrs	1
CS-610	Business Processes	2	0	0	2	25	50	75	2 Hrs	2
AE-517A	CFD Lab	0	0	2	2	50	50	100	2 Hrs	1
M-512A	Simulation Lab	0	0	2	2	25	25	50	2 Hrs	1
AE-600	Project Phase-I	0	0	2	2	50	0	50		1
	Total	**24**	**3**	**6**	**33**	**550**	**775**	**1325**		**30**
	SEMESTER-VII									
AE-800A	Industrial Training*	10 weeks				200	100	300		8
AE-505	Aircraft Systems	4	0	0	4	50	100	150	3 Hrs	4
	Program Electives-3	4	0	0	4	50	100	150	3 Hrs	4
	Program Electives-4	4	0	0	4	50	100	150	3 Hrs	4
	Open Electives-1	3	0	0	3	50	100	150	3 Hrs	3
AE-513	FEM Lab	0	0	2	2	50	50	100	2 Hrs	1
M-756	Mechanical Vibration Lab	0	0	2	2	25	25	50	2 Hrs	1
AE-750	Colloquium	0	2	0	2	50	0	50		2
	Total	**15**	**2**	**14**	**31**	**550**	**550**	**1100**		**27**
	SEMESTER-VIII									
	Program Electives-5	4	0	0	4	50	100	150	3 Hrs	4

	Program Electives-6	4	0	0	4	50	100	150	3 Hrs	4
	Open Electives-2	4	0	0	4	50	100	150	3 Hrs	4
	Open Electives-3	0	0	2	2	25	25	50	2 Hrs	1
AE-850	Project Phase-II / Industrial Project	0	0	16*	16*	250	150	400	3 Hrs	8
	Total	**12**	**0**	**18**	**30**	**425**	**475**	**900**		**21**
	* 8 Hours to be allotted towards guided self-study for the Project.									
Note:	Students who are able to get placement and as a result wish to undergo pre-employment training of 6 months in the 8th semester will be allowed to do so in place of Project Phase-II.									
Sem - V										
Generic Electives-1										
HM-506	French-I	HM-508	Spanish-I							
HM-507	German-I	HM-509	Japanese-I							
Sem - VI										
Program Electives-1		**Program Electives-2**					**Generic Electives-2**			
AE-802	Boundary Layer Theory	AE-826	Principles of Helicopter Engineering				HM-606	French-II		
M-631	Introduction to Robotics	AE-607	Introduction to Orbital Mechanics				HM-607	German-II		
M-642	Fracture & Fatigue	M-634	Mechatronics				HM-608	Spanish-II		
M-645	FEM in Engineering Mechanics	M-623	Non-conventional Energy Sources				HM-609	Japanese-II		
M-624	Automobile Engineering	M-625	Energy Management							
Sem - VII										
Program Electives-3		**Program Electives-4**					**Open Electives-1**			
AE-827	Basics of CFD	AE-821	Rocket Propulsion				HM-501	Industrial Management		
AE-624	Computational Aerodynamics	AE-804	Rockets and Missiles				EE-742	Industrial Electronics		
AE-801	Vibrations & Aeroelasticity	AE-508	Aircraft Instruments				EE-755	Basics of Communication		
M-721	Mechanical Vibrations	M-845	Composite Materials				COM-O306	Entrepreneurship Development		
M-821A	Refrigeration and Air-Conditioning	M-835A	Modern Machining Methods				IT-721	Management Information Systems		
M-824	Alternative Fuels & Advances in IC Engines	M-831	Computer-Integrated Manufacturing				EE-306	Measurements & Instrumentation		
							CS 801	Artificial Intelligence		
							CS 305	Database Management System		
Sem - VIII										
Program Electives-5		**Program Electives-6**					**Open Electives-2**			
AE-824A	Flight Dynamics	AE-825A	Introduction to Wind Energy				EE-735	Automatic Flight Controls		
AE-702	Space Dynamics	AE-806	Basics of Turbulence				HM-623	Total Quality Management		
M-626	Solar Energy and its Applications	M-844	Computer Aided Engineering				M-636	Material Management		
M-836	Engineering Economics & Cost Analysis	M-622	Power Plant Engineering				HM-821	Marketing Management		

Open Electives-3							HM-822	Human Resource Management			
IT-412	Java Programming Lab						HM-823	Project Management			
EE-316	Measurements & Instrumentation lab						IT-402	Java Programming			
EE-616	Control Engineering Lab						CS-801	Artificial Intelligence			
MAU-121	Automobile Engineering Lab						EE-302	Electrical Machines			
C-513	Structural Lab										
EE-312	Electrical Machines Lab										

AUTOMOBILE ENGINEERING

STUDY SCHEME (2017-21)

Semester	SUBJECT CODE	Course	PERIODS/WEEK				MARKS			Duration of Ext. Exam	Credits
			L	T	P	TOTAL	INT	EXT	TOTAL		
3	M-403A	Strength of Materials	3	1	0	4	50	100	150	3 Hrs	4
	M-302	Thermal Engineering-I	3	1	0	4	50	100	150	3 Hrs	4
	M-303A	Manufacturing Technology-I	4	0	0	4	50	100	150	3 Hrs	4
	M-304A	Fluid Mechanics	3	1	0	4	50	100	150	3 Hrs	4
	AU-405	Basics of Automobile Engineering	3	1	0	4	50	100	150	3 Hrs	4
	HM-403B	Quantitative Aptitude and Personality Development-I (QAPD-I)	3	0	0	3	50	50	100	1.5 Hrs	3
	AU-300	Introduction to Research	0	1	0	1	50	0	50		1
	M-311	Fluid Mechanics Lab	0	0	2	2	25	25	50	2 Hrs	1
	M-313A	Computer Aided Drafting Lab	0	0	2	2	50	50	100	2 Hrs	1
	AU-411	Basics of Auto Engineering Lab	0	0	2	2	25	25	50	2 Hrs	1
	M-312	Strength of Materials Lab	0	0	2	2	25	25	50	2 Hrs	1
		Total	**19**	**5**	**8**	**32**	**475**	**675**	**1150**		**28**
4	AU-406A	Fuel and Lubricants	3	1	0	4	50	100	150	3 Hrs	4
	M-621	Internal Combustion Engines and Gas Turbines	3	1	0	4	50	100	150	3 Hrs	4

	M-404A	Manufacturing Technology-II	4	0	0	4	50	100	150	3 Hrs	4
	M-405A	Kinematics of Machines	3	1	0	4	50	100	150	3 Hrs	4
	CS-405	Cyber Security	2	0	0	2	25	50	75	2 Hrs	2
	MA-302	Applied Maths-III	3	0	0	3	50	100	150	3 Hrs	3
	AU-400	Technical Seminar-1	0	1	0	1	50	0	50		1
	HM-404	Holistic Wellness & Life Skills-II**	1	0	0	1	50	50	100	2 Hrs	1
	M-514	Theory of Machines Lab	0	0	2	2	25	25	50	2 Hrs	1
	AU-620	IC Engines Lab	0	0	2	2	25	25	50	2 Hrs	1
	AU-412A	Fuel and lubricant lab.	0	0	2	2	25	25	50	2 Hrs	1
	M-417	Advanced CAD Lab	0	0	2	2	50	50	100	2 Hrs	1
		Total	**19**	**4**	**8**	**31**	**500**	**725**	**1225**		**27**

Semester	**SUBJECT CODE**	**Course**	**PERIODS/WEEK**				**MARKS**			**Duration of Ext. Exam**	**Credits**
			L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
5	M-821 A	Refrigeration & Air-conditioning	3	1	0	4	50	100	150	3 Hrs	4
	AU-503	Auto electricals and electronics	3	1	0	4	50	100	150	3 Hrs	4
	AU-506	Automotive Components Design	4	1	0	5	50	100	150	3 Hrs	5
	M-502A	Dynamics of Machines	3	1	0	4	50	100	150	3 Hrs	4
	HM-505A	Quantitative Aptitude and Personality Development-II (QAPD-II)	2	0	0	2	50	50	100	2 Hrs	2
	AU-500	Technical Seminar-II	0	1	0	1	50	0	50		1
		Generic Elective-I	2	0	0	2	50	50	100	2 Hrs	2
	M-517	CIM Lab	0	0	2	2	25	25	50	2 Hrs	1
	M-512 A	Simulation Lab	0	0	2	2	25	25	50	2 Hrs	1

	AU-522	Auto electricals and Electronics Lab	0	0	2	2	25	25	50	2 Hrs	1
	AU-622	Auto Refrigeration & Air-conditioning Lab	0	0	2	2	25	25	50	2 Hrs	1
		Total	**17**	**5**	**8**	**30**	**450**	**600**	**1050**		**26**
6	M-604	Heat Transfer	3	1	0	4	50	100	150	3 Hrs	4
	AU-626	Measuring Techniques	4	0	0	4	50	100	150	3 Hrs	4
	HM-603A	Quantitative Aptitude and Personality Development-III (QAPD-III)	2	0	0	2	50	50	100	2 Hrs	2
		Discipine Elective-1	4	0	0	4	50	100	150	3 Hrs	4
		Discipine Elective-2	4	0	0	4	50	100	150	3 Hrs	4
		Discipine Elective-3	4	0	0	4	50	100	150	3 Hrs	4
		Generic Elective-II	2	0	0	2	50	50	100	2 Hrs	2
	HM-604	Holistic Wellness & Life Skills-III**	1	0	0	1	50	50	100	2 Hrs	1
	CS-610	Business Processes	2	0	0	2	25	50	75	2 Hrs	2
	M-612	Heat Transfer Lab	0	0	2	2	25	25	50	2 Hrs	1
	AU-600	Project Phase-1	0	0	2	2	50	0	50		1
	AU-615	Measuring Techniques Lab	0	0	2	2	25	25	50	2 Hrs	1
		Total	**26**	**1**	**6**	**33**	**525**	**750**	**1000**		**30**
7	AU-800A	Industrial Training	**10 weeks**				200	100	**300**		8
	AU-802	Computer Aided Vehicle Design	3	1	0	4	50	100	150	3 Hrs	4
	AU-603	Vehicle Maintainence	3	1	0	4	50	100	150	3 Hrs	4
		Open Elective-1	3	0	0	3	50	100	150	3 Hrs	3
		Discipine Elective-4	4	0	0	4	50	100	150	3 Hrs	4
	AU-650	Colloquium	0	2	0	2	50	0	50	2 Hrs	2
	AU-821	Computer Aided Vehicle Design Lab	0	0	2	2	25	25	50	2 Hrs	1
	AU-623	Vehicle Maintainence Lab	0	0	2	2	25	25	50	2 Hrs	1

		Total	**13**	**4**	**4**	**21**	**300**	**450**	**750**		**27**
Teaching of additional 2 hours per subject per week is to be made since the semester is of less duration.											
8		Discipine Elective-5	4	0	0	4	50	100	150	3 Hrs	4
		Discipine Elective-6	4	0	0	4	50	100	150	3 Hrs	4
		Open Elective-2	4	0	0	4	50	100	150	3 Hrs	4
		Open Elective-3	0	0	2	2	50	100	150	3 Hrs	1
	AU-700	Project Phase-2	0	0	16*	16	250	150	400	3 Hrs	8
											21
										Total Credits-8 semesters	**212**
*In project phase 2, out of 16 hours 8 hours are to be devoted for self study and research.											
** External evaluation will be conducted by a duly constituted committee of internal examiners through a viva-voce examination / practical exercises during the end-semester practical examinations.											

B.Tech- Automobile Engineering Electives (2016)

	Discipine Elective D-1:			**Open Elective O-1:**		**Semester**	**Credits**
	AU-610	Automotive pollution and its control		HM-501	Industrial Management	I	25.5
	AU-401	Automotive Chassis		EE-742	Industrial Electronics	II	27.5
	M-836	Engineering Economics and Cost Analysis		COM-0306	Entrepreneurship Development	III	28
	M-625	Energy Management		CS-625	Intelligent Systems	IV	27
	Discipine Elective D-2:			IT-821	Software Project Management	V	26
	AU-402	Automotive Engines		**Open Elective O-2:**		VI	30
	AU-617	Motor Vehicle & Environment Protection		HM-623	Total Quality Management	VII	27
	M-831	Computer Integrated Manufacturing		IT-721	Management Information System	VIII	21
	AU-627	Mobility Design & Aesthetics		HM-821	Marketing Management	Total	212
	Discipine Elective D-3:			HM-822	Human Resource Management		
	AU-817	Emerging Automotive Technologies		HM-823	Project Management		

	AU-618	Transport Management and Automobile Industry		EE-606	Control Engineering		
	M-623	Non-Conventional Energy Sources		**Open Elective O-3:**			
	AU-504	Automotive Transmission		AU-822	Two Wheeler Technology Lab		
	Discipine Elective D-4:			EE-616	Control Engineering Lab		
	M-501A	Industrial Engineering		AE-513	FEM Lab		
	M-835A	Modern Machining Method		AE-517	CFD Lab		
	AU-619	Vehicle Body Engineering		**Generic Elective G-1:**			
	M-634	Mechatronics		HM-506	French-1		
	Discipine Elective D-5:			HM-507	German-1		
	AU-711	Two and Three Wheelers		HM-508	Spanish-I		
	AU-713	Off-road Vehicles		HM-509	Japanese-I		
	AU-811	Ergonomics and Work Place Design		**Generic Elective G-2:**			
	Discipine Elective D-6:			HM-606	French-II		
	AU-512	Vehicle Dynamics		HM-607	German-II		
	M-721	Mechanical Vibration		HM-608	Spanish-II		
	M-626	Solar energy and its application		HM-609	Japanese-II		

Study Scheme - Biotechnology

SEMESTER-I										
(Common for All B.Tech. Programmes)										
Subject Code	**Subject**	**Periods/Week**				**Marks**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
BSC-PH-101	Physics (Introduction to Electromagnetic Theory- Aero, Auto, Mech)	5#	1	0	6	50	100	150	3 hrs	4

BSC-PH-102	Physics(Mechanics- Civil)									
BSC-PH-103	Physics(Applied Physics-BT)									
BSC- CH-102	Chemistry-I (Group B)									
BSC- MA-101/102/ MA-103	Mathematics for Computer Science & Engineering –I /Mathematics-I/Mathematics for Biotechnology-I (For BT only)	5#	1	0	6	50	100	150	3 hrs	4
ESC -EE-101/ ESC- CS-101	Basic Electrical Engg(Group A)/ Programming for Problem Solving(Group B)	4#	1/0	0	5/4	50	100	150	3 hrs	4/3
ESC- ME-101/ ESC – ME-102	Engg Graphics & Design(Group A)/ Workshop/Manufacturing Practices(Group B)	1	0	5#	6	100	50	150	3 hrs	3
BSC- PH-111/ BSC-CH-111	Physics lab (Group A)/ Chemistry-I lab (Group B)	0	0	4#	4	25	25	50	2 hrs	1.5
ESC- EE-111/ ESC- CS-111	Basic Electrical Engg lab(Gp A)/ Programming forProblem Solving lab (Group B)	0	0	3#/5#	3/5	25	25	50	2 hrs	1/2
	Total (Group A/ Group B)	**15**	**3/2**	**12/14**	**30/31**	**300**	**400**	**700**		**17.5**
CS-104A	Introduction to Open Source Software and Open Standards *	3#	0	0	3	50	100	150	3 hrs	2
EC-1001	Internet of Things (IOT)-I***	2	0	0	2	50	100	150	3 Hrs	2
	Total (CSE-IBM specializations & ECE)									**19.5**
SEMESTER-II										

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
BSC-CH-101	Chemistry-I (Group A)	4##	1	0	4	50	100	150	3 hrs	4
BSC-PH-101	Physics (Introduction to Electromagnetic Theory-EEE)									
BSC-PH-104	Physics (Semiconductor Physics- CSE, ECE)									
BSC-MA-201/202/ MA-203	Mathematics for Computer Science & Engineering –II /Mathematics- II/ Mathematics for Biotechnology-II (For BT only)	4##	1	0	4	50	100	150	3 hrs	4
ESC-CS-101/ ESC-EE-101	Programming for Problem Solving(Group A)/ Basic Electrical Engg (Group B)	3	0/1	0	3/4	50	100	150	3 hrs	3/4
ESC-ME-102/ ESC-ME-101	Workshop/Manufacturing Practices(Group A)/ Engg Graphics & Design(Group B)	1	0	4	5	100	50	150	3 hrs	3
HSMC-101	English	2	0	0	2	50	50	100	2 hrs	2
BSC-CH-111/ BSC-PH-111	Chemistry-I lab (Group A)/ Physics lab (Group B)	0	0	3	3	25	25	50	2 hrs	1.5
ESC-CS-111/ ESC-EE-111	Programming for Problem Solving lab (Gp A)/ Basic Electrical Engg lab(Group B)	0	0	4/2	4/2	25	25	50	2 hrs	2/1
HSMC-111	English lab	0	0	2	2	25	25	50	2 hrs	1

	Total (Group A/ Group B)	**14**	**2/3**	**13/11**	**29/28**	**375**	**475**	**850**		**20.5**
CS-215	Web Programming through PHP & HTML Lab*	0	0	4	4	25	25	50	2 hrs	2
EC-2001	Internet of Things (IOT)-II***	2	0	0	2	50	100	150	3 hrs	2
	Total (CSE-IBM specializations & ECE)									**22.5**

GROUP A: BT, MECH, Aero, Auto, Civil
GROUP B: CSE & IBM SPECIALISATIONS, ECE, EEE
***** Additional course only for the programme of B.Tech. Electronics & Communication Engineering**
 # NOTE: Contact hours per week have been increased due to compressed 1st Semester and bridge course.
NOTE: Contact hours per week have been increased due to bridge course.
*** Additional courses only for the programme of B.Tech. Computer Science & Engineering in Association with IBM with various specializations.**

SECOND YEAR - B. TECH IN BIOTECHNOLOGY

SEMESTER-III										
Subject Code	**Subject**	**Periods/Week**				**Marks**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
BT-301A	Cell Biology	3	0	0	3	50	100	150	3 hrs.	3
BT-302A	Microbiology	3	0	0	3	50	100	150	3 hrs.	3
BT-303C	Biochemistry	3	0	0	3	50	100	150	3 hrs.	3
BT-305B	Bioanalytical Techniques	3	0	0	3	50	100	150	3 hrs.	3
BT-306C	Biochemical Calculations	3	1	0	4	50	100	150	3 hrs.	4
BT-307	Concepts in Immunology	3	0	0	3	50	100	150	3 hrs.	3
BT-311A	Cell Biology Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-312A	Microbiology Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-314A	Bioanalytical Techniques Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-315	Immunological Techniques Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-300	Introduction to Research	0	1	0	1	50	0	50		1
HM-403B	Quantitative Aptitude&Personality Development I	3	0	0	3	50	50	100	2 hrs.	3
	Total	**21**	**2**	**12**	**35**	**600**	**850**	**1450**		**29**
SEMESTER-IV										

BT-401A	Molecular Biology	3	0	0	3	50	100	150	3 hrs.	3
BT-403A	Industrial Microbiology	3	0	0	3	50	100	150	3 hrs.	3
BT-404A	Basics of Chemical Engineering	3	0	0	3	50	100	150	3 hrs.	3
MA - 401	Biostatistics	3	1	0	4	50	100	150	3 hrs.	4
BT-405A	Thermodynamics of Bioprocess	3	0	0	3	50	100	150	3 hrs.	3
BT-406	Bioinformatics & Computer Applications	3	0	0	3	50	100	150	3 hrs.	3
BT-411A	Molecular Biology Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-413A	Industrial Microbiology Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-414B	Basics of Chemical Engineering Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-415	Bioinformatics & Computer Applications Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-400	Technical Seminar-I	0	1	0	1	50	0	50	-	1
HM-404	Holistic wellness and Life Skills-II	1	0	0	1	50	50	100	2 hrs.	1
	Total	**19**	**2**	**12**	**33**	**600**	**850**	**1450**		**27**

Note: "Student admitted directly in 2nd year of B.Tech. programme under lateral entry scheme after 3 years diploma in any branch of engineering shall have to pass additional two courses of Applied Mathematics i.e. MA-341A and MA-441A in III and IV semester of B.Tech respectively.

THIRD YEAR - B. TECH IN BIOTECHNOLOGY

SEMESTER-V										
Subject Code	**Subject**	**Periods/Week**				**Marks**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
BT-501A	Recombinant DNA Technology	3	0	0	3	50	100	150	3 hrs.	3
BT-506A	Animal Biotechnology	3	0	0	3	50	100	150	3 hrs.	3
BT-508	Bioprocess Engineering	3	1	0	4	50	100	150	3 hrs.	4
	Discipline Elective I	4	0	0	4	50	100	150	3 hrs.	4
	Discipline Elective II	4	0	0	4	50	100	150	3 hrs.	4
CS-405	Cyber Security	2	0	0	2	25	50	75	2hrs.	2
BT-511A	Recombinant DNA Tech. Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-516	Bioprocess Engineering Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-500	Technical Seminar-II	0	1	0	1	50	0	50	-	1
	Generic Elective I	2	0	0	2	50	50	100	2 hrs.	2
HM-505A	Quantitative Aptitude and Personality Development-II	2	0	0	2	50	50	100	2Hrs	2
	Total	**23**	**2**	**6**	**31**	**525**	**750**	**1275**		**28**
SEMESTER-VI										
BT-601A	Plant Biotechnology	3	0	0	3	50	100	150	3 hrs.	3
BT-602A	Environment Biotechnology	3	0	0	3	50	100	150	3 hrs.	3
BT-507	Food Biotechnology	3	0	0	3	50	100	150	3 hrs.	3
	Discipline Elective III	4	0	0	4	50	100	150	3 hrs.	4

	Discipline Elective IV	4	0	0	4	50	100	150	3 hrs.	4
BT-613	Cell & Tissue Culture Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-612A	Environment Biotechnology Lab	0	0	2	2	50	50	100	3 hrs.	1
BT-515	Food Biotechnology Lab	0	0	3	3	50	50	100	3 hrs.	1.5
BT-651	Minor Project	0	0	2	2	50		50		2
COM-306A	Entrepreneurship Development	3	0	0	3	50	100	150	3 hrs.	3
	Generic Elective II	2	0	0	2	50	50	100	2 hrs.	2
HM-603A	Quantitative Aptitude and Personality Development-III	2	0	0	2	50	50	100	2Hrs	2
HM-604	Holistic wellness and life Skills-III	1	0	0	1	50	50	100	2 hrs.	1
	Total	**25**	**0**	**10**	**35**	**650**	**900**	**1550**		**31**

List of Generic Elective I

HM-506	French I
HM-507	German I
HM-508	Spanish I
HM-509	Japnese I

List of Generic Elective II

HM-606	French II
HM-607	German II
HM-608	Spanish II
HM-609	Japnese II

FOURTH YEAR - B. TECH IN BIOTECHNOLOGY

SEMESTER-VII

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
BT-800	**Industrial Training***	**20 weeks (Minimum)**				**600**	**300**	**900**		**20**
	SEMESTER-VIII									
BT-702	Biosafety, Bioethics & IPR	3	1	0	4	50	100	150	3 hrs.	4
BT-803	Stem Cells & its applications	3	1	0	4	50	100	150	3 hrs.	4
	Discipline Elective V	4	0	0	4	50	100	150	3 hrs.	4
	Open Elective	4	0	0	4	50	100	150	3 hrs.	4
BT-851	Major Project	0	0	8	8	200	100	300	3 hrs.	8
BT-750	Collouquim	0	2	0	2	50		50		2
	Total	**14**	**4**	**8**	**26**	**450**	**500**	**950**		**26**

TOTAL CREDITS	
SEMESTER	**CREDITS**
1ST SEMESTER	24.5
2nd SEMESTER	27.5
3rd SEMESTER	29
4th SEMESTER	27

5th SEMESTER	28
6th SEMESTER	31
7th SEMESTER	20
8th SEMESTER	26
TOTAL CREDITS	**213**

STUDY SCHEME FOR B.TECH (CIVIL ENGINEERING), 2017-21 BATCH

SEMESTER-I

(Common for All B.Tech. Programmes(7-7-17)

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
PH-101B	Applied Physics-I	3	1	0	4	50	100	150	3 Hrs	4
MA-101B/MA-103	Applied Maths-I(For All CSE, ECE, EE, AE, AU, Civil, All Mech)/ Mathematics for Biotechnology-I (For BT only)	3	1	0	4	50	100	150	3 Hrs	4
CH-101B	Industrial Chemistry	3	0	0	3	50	100	150	3 Hrs	3
HM-104	Professional Communication -I	2	0	0	2	50	50	100	2 Hrs	2
CS-101	Elements of Computer and Programming	3	1	0	4	50	100	150	3 Hrs	4
EE-101B / EE-102A	Elements of Electrical Engineering (For All CSE, ECE,EE) /Elements of Electrical and Electronics Engineering (For AE, AU, BT, Civil, All Mech)	3	1	0	4	50	100	150	3 Hrs	4
PH-111A /CH-111 A	Physics Lab (For All CSE) /Chemistry Lab (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
CS-111/ M-111	Computer Programming Lab (For All CSE)/Computer Aided Drafting (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111A / WP-112	Workshop Practices - I (For AE, AU, BT, Civil, All Mech) / Workshop Practices - II (For All CSE, ECE, EE)	0	0	3	3	75	50	125	2 Hrs	1.5
	Total (For ECE, EE, AE, AU, BT, Civil, All Mech)	**17**	**4**	**7**	**28**	**425**	**650**	**1075**		**24.5**
CS-104 A/ EC-1001	Introduction to Open Source Software and Open Standards***/ Internet of Things (IOT)-I*****	2	0	0	2	50	100	150	2 Hrs	2
	Total (For CSE Programmes/ ECE-IOT Specialisation)	**19**	**4**	**7**	**30**	**475**	**750**	**1225**		**26.5**

SEMESTER-II										
PH-201B	Applied Physics-II	3	1	0	4	50	100	150	3 Hrs	4
MA-201B/ MA-203	Applied Maths-II (For All CSE, ECE, EE,AE, AU, Civil, All Mech)/ Mathematics for Biotechnology-II (For BT only)	3	1	0	4	50	100	150	3 Hrs	4
CH-202 B	Environmental Studies	3	0	0	3	50 #	100	150	3 Hrs	3 + 1#
HM-204	Professional Communication -II	2	0	0	2	50	50	100	2 Hrs	2
HM-205	Holistic Wellness & Life Skills-I**	1	0	0	1	50	50**	100	2 Hrs	1
EC-202 / M-201 / BT-201	Digital Electronics and Circuits (For All CSE, ECE, EE) / Applied Mechanics (For AE, AU, Civil, All ME) / Biomolecules (For BT)	3	1	0	4	50	100	150	3 Hrs	4
EC-201/ AE-201 / M-202 / C-201 / BT-202	Analog Electronics (For ECE, EE) / Basics of Aeronautical Engineering (For AE) / Engineering Materials & Heat treatment (For AU, All ME) / Construction Materials (For Civil) / Genetics and Cytogenetics (For BT)	3	1	0	4	50	100	150	3 Hrs	4
M-111 / CS-111	Computer Aided Drafting (For All CSE) / Computer Programming Lab (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
PH-111 A/ CH-111 A	Physics Lab (For AE, AU, BT, Civil, Mech, ECE, EE) / Chemistry Lab (For All CSE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111 A/ WP-1011/ WP-112	Workshop Practices - I (For CSE, ECE, EE) / IOT Workshop(ECE - IOT Specialisation)/ Workshop Practices - II (For AE, AU, BT, Civil, All Mech)	0	0	3	3	75	50	125	2 Hrs.	1.5
EC-212 / M-211 / BT-211	Digital Electronics and Circuits Lab (For CSE, ECE, EE)/ Applied Mechanics Lab (For AE AU, Civil, All ME) / Biomolecules Lab (For BT)	0	0	2	2	25	25	50	2 Hrs	1
	Total (For ECE, EE ,AE, AU, BT, Civil, All Mech)	**18**	**4**	**9**	**31**	**500**	**725**	**1225**		**27.5**
CS-216	Computer Programming Lab-II*	0	0	4	4	25	25	50	2 Hrs	2
	Total (For CSE)	**15**	**3**	**13**	**31**	**475**	**650**	**1125**		**25.5**
CS-205	Web Programming through PHP & HTML ##	3	1	0	4	50	100	150	3 Hrs	4
CS-215	Web Programming through PHP & HTML Lab##	0	0	2	2	25	25	50	2 Hrs	1

	Total (For CSE-IBM Programmes)	**18**	**4**	**15**	**37**	**550**	**775**	**1325**		**30.5**
EC-2001	Internet of Things (IOT)-II***	2	0	0	2	50	100	150	2 Hrs	2
	Total (For ECE-IOT Specialisation)	**20**	**4**	**9**	**33**	**550**	**825**	**1375**		**29.5**

***** Additional courses only for all programmes of B.Tech. Computer Science & Engineering

** Classes will be conducted in a batch size of 30 students and external evaluation will be conducted by a duly constituted committee of internal examiners through a viva-voce examination / practical exercises during the end-semester practical examinations.

*** Additional course only for the programme of B.Tech. Electronics & Communication Engineering -IOT Specialisation.

Additional course only for the programme of B.Tech. CSE-IBM Programmes.

01 extra credit for Field Visits. The breakup of total 50 internal marks includes 20 marks for sessional tests, 5 marks for attendance and remaining 25 marks for Field Work & Report Writing / Model Making.

Workshop Practices Detail		
WP-111A / WP-1011	Workshop Practices- I / IOT- Workshop(Only for ECE -IOT Specialisation)	Electrical, Electronics, Computer H/W Shop
WP-112	Workshop Practices - II	Machine, Fitting & Sheet Metal, Welding

SEMESTER III

SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
C-301B	Structural Analysis-I	3	1	0	4	50	100	150	3Hrs	4
C-302C	Building Construction and Materials	4	0	0	4	50	100	150	3Hrs	4
C-304A	Surveying –I	3	1	0	4	50	100	150	3Hrs	4
C-305A	Concrete Technology	3	0	0	3	50	100	150	3Hrs	3
C-306C	Strength of Materials	3	0	0	3	50	100	150	3Hrs	3
HM-403B	Quantitative Aptitude & Personality Development-I (QAPD-I)	3	0	0	3	50	50	100	2 Hrs	3
C-300	Introduction to Research	0	1	0	1	50	0	50		1
C-312A	Surveying –I Lab	0	0	3	3	50	50	100	2Hrs	1.5
C-313A	Concrete Technology - Lab	0	0	2	2	25	25	50	2Hrs	1

C-315A	Civil Engineering Drawing	0	0	4	4	50	100	150	3Hrs	2
C-317	Strength of Material Lab	0	0	2	2	25	25	50	2Hrs	1
	TOTAL	**19**	**3**	**11**	**33**	**500**	**750**	**1250**		**27.5**

SEMESTER IV

SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
C-401B	Structural Analysis-II	3	1	0	4	50	100	150	3Hrs	4
C-403	Surveying –II	3	1	0	4	50	100	150	3Hrs	4
C-404A	Design of Concrete structures-I	3	1	0	4	50	100	150	3Hrs	4
C-407	Engineering Geology	3	0	0	3	50	100	150	3Hrs	3
C-408A	Fluid Mechanics	3	1	0	4	50	100	150	3Hrs	4
MA-302	Applied Maths-III	3	0	0	3	50	100	150	2 Hrs	3
HM-404	Holistic Wellness & Life Skills-II**	1	0	0	1	50	50	100	2 Hrs	1
C-400	Technical Seminar-I	0	1	0	1	50	0	50		1
C-413A	Surveying –II Lab	0	0	2	2	25	25	50	2 Hrs	1
C-513	Structure - Lab	0	0	2	2	25	25	50	2 Hrs	1
C-414	Fluid Mechanics Lab	0	0	2	2	25	25	50	2 Hrs	1
C-415	Engineering Geology Lab	0	0	2	2	25	25	50	2 Hrs	1
TOTAL		**19**	**5**	**8**	**32**	**500**	**750**	**1250**		**28**

Note:
***** * External evaluation will be conducted by a duly constituted committee of internal examiners through a viva-voce examination / practical exercises during the end-semester practical examinations.

SEMESTER V

SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
C-501A	Transportation Engineering-I	3	1	0	4	50	100	150	3Hrs	4
C-502	Water Supply & Treatment Plant	3	1	0	4	50	100	150	3Hrs	4
C-503B	Irrigation Engineering –I	3	1	0	4	50	100	150	3Hrs	4

C-406	Soil Mechanics	3	1	0	4	50	100	150	3Hrs	4
C-601 A	Design of Concrete structure-II	3	1	0	4	50	100	150	3Hrs	4
CS-405	Cyber Security	2	0	0	2	25	50	75	2 Hrs	2
HM-505A	Quantitative Aptitude & Personality Development-II (QAPD-II)	2	0	0	2	50	50	100	2 Hrs	2
	Generic Elective-I	2	0	0	2	50	50	100	2 Hrs	2
C-500	Technical Seminar-II	0	1	0	1	50	0	50		1
C-511	Transportation Engineering-I Lab	0	0	2	2	25	25	50	2 Hrs	1
C-411	Soil Mechanics - Lab	0	0	2	2	25	25	50	2Hrs	1
C-515	RCC Drawing	0	0	2	2	25	25	50	2Hrs	1
Total		**21**	**6**	**6**	**33**	**500**	**725**	**1225**		**30**

Generic Elective-I

HM-506	French-I	2	0	0	2	50	50	100	2 Hrs	2
HM-507	German-I	2	0	0	2	50	50	100	2 Hrs	2
HM-508	Spanish-I	2	0	0	2	50	50	100	2 Hrs	2
HM-509	Japanese-I	2	0	0	2	50	50	100	2 Hrs	2

SEMESTER VI

SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
C-405A	Design of Steel structures-I	3	1	0	4	50	100	150	3 Hrs	4
C-605	Environmental Engineering	3	1	0	4	50	100	150	3 Hrs	4
HM-603A	Quantitative Aptitude & Personality Development-III (QAPD-III)	2	0	0	2	50	50	100	2 Hrs	2
HM-604	Holistic Wellness & Life Skills-III**	1	0	0	1	50	50	100	2 Hrs	1
	Discipline Elective-I	3	1	0	4	50	100	150	3 Hrs	4
	Open Elective-I	3	1	0	4	50	100	150	3 Hrs	4
	Generic Elective -II	2	0	0	2	50	50	100	2 Hrs	2
C-617	Computer Aided Design & Drafting Lab	0	0	2	2	50	50	100	2Hrs	1

C-611	Transportation Engineering -II Lab	0	0	2	2	25	25	50	2 Hrs	1
C-614	Environmental Engineering Lab	0	0	2	2	25	25	50	2Hrs	1
C-600	Project I	0	0	2	2	25	25	50	2Hrs	1
C-616	Fluid Machinery Lab	0	0	2	2	25	25	50	2 Hrs	1
TOTAL		**17**	**4**	**10**	**31**	**500**	**700**	**1200**		**26**

SUBJECT CODE	**List of Discipline Elective-I**									
C-504A	Bridge Engineering	3	1	0	4	50	100	150	3 Hrs	4
C-603A	Irrigation Engineering –II	3	1	0	4	50	100	150	3 Hrs	4
C-606A	Structural Analysis III	3	1	0	4	50	100	150	3 Hrs	4
C-607	Open Channel Flow	3	1	0	4	50	100	150	3 Hrs	4
C-604A	Transportation Engineering –II	3	1	0	4	50	100	150	3Hrs	4
C-830	Advanced Concrete Technology	4	0	0	4	50	100	150	3Hrs	4
C-632	Metro Technology	4	0	0	4	50	100	150	3Hrs	4
C-634	Solid Waste Management	4	0	0	4	50	100	150	3Hrs	4

Generic Elective -II

HM-606	French-II	2	0	0	2	50	50	100	2 Hrs	2
HM-607	German-II	2	0	0	2	50	50	100	2 Hrs	2
HM-608	Spanish-II	2	0	0	2	50	50	100	2 Hrs	2
HM-609	Japanese-II	2	0	0	2	50	50	100	2 Hrs	2

Subject Code	**List of Open Elective-I**									
MA-501	Numerical Methods and Optimization Technique	3	1	0	4	50	100	150	3 Hrs	4
AE-503A	Aircraft Structures-II	3	1	0	4	50	100	150	3 Hrs	4
C-631	Urban Planning	3	1	0	4	50	100	150	3 Hrs	4
CS-801	Artificial Intelligence	3	1	0	4	50	100	150	3 Hrs	4

***** * External evaluation will be conducted by a duly constituted committee of internal examiners through a viva-voce examination / practical exercises during the end-semester practical examinations.

SEMESTER VII#

SUBJECT CODE	SUBJECT	PERIODS/WEEK				MARKS			Duration of Exam	Credits
		L	T	P	TOTAL	INT	EXT	TOTAL		
C-800A	**Industrial Training***	**10 weeks**				**200**	**100**	**300**		**8**
C-826	Project Planning & Management	4	1	0	5	50	100	150	3Hrs	4
C-829	Earthquake Resistant Design of Structures	4	1	0	5	50	100	150	3Hrs	4
C-706	Sanitation, Solid and Liquid Waste Management	2	1	0	3	50	100	150	3 Hrs	3
	Discipline Elective-II	4	1	0	5	50	100	150	3Hrs	4
	Open Elective -II	3	1	0	4	50	100	150	3Hrs	3
C-700	Project II	0	0	4	4	200	100	300	6Hrs	2
C-711	Project Planning & Management-Lab	0	0	2	2	50	50	100	2Hrs	1
C-712	Advanced Structural Engineering lab	0	0	2	2	50	50	100	2Hrs	1
Total		**17**	**5**	**8**	**30**	**750**	**800**	**1550**		**30**

 # due to shorter semester , the teaching hours for each subject have been increased, however credits remain the same

***Industrial Training for 10 weeks to start after 6th semester exams before commencement of 7th semester**

Subject Code	List of Discipline Elective-II									
C-602	Design of Steel structures-II	4	1	0	5	50	100	150	3Hrs	4
C-822	Rock Mechanics	4	1	0	5	50	100	150	3Hrs	4
C-825	Remote Sensing and GIS	4	1	0	5	50	100	150	3Hrs	4
C-831	Environmental Air Pollution	4	1	0	5	50	100	150	3Hrs	4
C-837	Railway ,Airport and Harbour Engineeering	4	1	0	5	50	100	150	3Hrs	4
C-836	Ground Improvement Techniques	4	1	0	5	50	100	150	3Hrs	4
C-803	Hydrology	4	1	0	5	50	100	150	3Hrs	4
C-839	Disaster Management	4	1	0	5	50	100	150	3Hrs	4
Subject Code	**List of Open Elective-II**									
O306A	Entrepreneurship Development	3	1	0	4	50	100	150	3Hrs	3

C-703A	Intellectual Property Rights	3	1	0	4	50	100	150	3Hrs	3
C-704A	Introduction to Finite Element Method	3	1	0	4	50	100	150	3Hrs	3
C-705A	Practical Aspects of Project management	3	1	0	4	50	100	150	3Hrs	3

SEMESTER VIII

SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
C-801A	Estimating and Costing	3	1	0	4	50	100	150	3Hrs	4
C-804	Foundation Engineering	3	1	0	4	50	100	150	3Hrs	4
	Discipline Elective-III	3	1	0	4	50	100	150	3Hrs	4
C-750	Colloquium	0	2	0	2	50	0	50	0	2
C-810	Advanced Civil Engineering Materials Lab	0	0	2	2	50	50	100	3Hrs	1
C-850A	Extensive Survey Project***	**0**	**0**	**12**	**12**	**200**	**200**	**400**	3Hrs	**6**
	Total	**9**	**5**	**14**	**28**	**450**	**550**	**1000**		**21**
	*** Extensive Survey Project camp will start immediately after 7th semester exams for a period of 3 weeks									

SUBJECT CODE	**List of Discipline Elective-III**									
C-823	Ground Water Engg	3	1	0	4	50	100	150	3Hrs	4
C-824	Advanced Traffic Enginering	3	1	0	4	50	100	150	3Hrs	4
C-827A	Prestressed Concrete	3	1	0	4	50	100	150	3Hrs	4
C-832	Alternative Building Technology	3	1	0	4	50	100	150	3Hrs	4
C-833	Masonry Structures	3	1	0	4	50	100	150	3Hrs	4
C-834	Environmental Impact Assessment	3	1	0	4	50	100	150	3Hrs	4
C-838	Hazardous Waste Management	3	1	0	4	50	100	150	3Hrs	4
	VIII	**450**	**550**	**1000**	**21**					
	Total				**214.5**					

B.Tech-Computer Science and Engineering

SEMESTER-I
(Common for All B.Tech. Programmes)

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
PH-101B	Applied Physics-I	3	1	0	4	50	100	150	3 Hrs	4
MA-101B/ MA-103	Applied Maths-I(For All CSE, ECE, EE, AE, AU, Civil, All Mech)/ Mathematics for Biotechnology-I (For BT only)	3	1	0	4	50	100	150	3 Hrs	4
CH-101B	Industrial Chemistry	3	0	0	3	50	100	150	3 Hrs	3
HM-104	Professional Communication -I	2	0	0	2	50	50	100	2 Hrs	2
CS-101	Elements of Computer and Programming	3	1	0	4	50	100	150	3 Hrs	4
EE-101B / EE-102A	Elements of Electrical Engineering (For All CSE, ECE,EE) /Elements of Electrical and Electronics Engineering (For AE, AU, BT, Civil, All Mech)	3	1	0	4	50	100	150	3 Hrs	4
PH-111A /CH-111 A	Physics Lab (For All CSE) / Chemistry Lab (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
CS-111/ M-111	Computer Programming Lab (For All CSE)/Computer Aided Drafting (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111A / WP-112	Workshop Practices - I (For AE, AU, BT, Civil, All Mech) / Workshop Practices - II (For All CSE, ECE, EE)	0	0	3	3	75	50	125	2 Hrs	1.5
	Total (For ECE, EE, AE, AU, BT, Civil, All Mech)	**17**	**4**	**7**	**28**	**425**	**650**	**1075**		**24.5**
CS-104 A/ EC-1001	Introduction to Open Source Software and Open Standards***/ Internet of Things (IOT)-I*****	2	0	0	2	50	100	150	2 Hrs	2
	Total (For CSE Programmes/ ECE-IOT Specialisation)	**19**	**4**	**7**	**30**	**475**	**750**	**1225**		**26.5**
SEMESTER-II										
PH-201B	Applied Physics-II	3	1	0	4	50	100	150	3 Hrs	4

MA-201B/ MA-203	Applied Maths-II (For All CSE, ECE, EE,AE, AU, Civil, All Mech)/ Mathematics for Biotechnology-II (For BT only)	3	1	0	4	50	100	150	3 Hrs	4
CH-202 B	Environmental Studies	3	0	0	3	50 #	100	150	3 Hrs	3 + 1#
HM-204	Professional Communication -II	2	0	0	2	50	50	100	2 Hrs	2
HM-205	Holistic Wellness & Life Skills-I**	1	0	0	1	50	50 **	100	2 Hrs	1
EC-202 / M-201 / BT-201	Digital Electronics and Circuits (For All CSE, ECE, EE) / Applied Mechanics (For AE, AU, Civil, All ME) / Biomolecules (For BT)	3	1	0	4	50	100	150	3 Hrs	4
EC-201/ AE-201 / M-202 / C-201 / BT-202	Analog Electronics (For ECE, EE) / Basics of Aeronautical Engineering (For AE) / Engineering Materials & Heat treatment (For AU, All ME) / Construction Materials (For Civil) / Genetics and Cytogenetics (For BT)	3	1	0	4	50	100	150	3 Hrs	4
M-111 / CS-111	Computer Aided Drafting (For All CSE) / Computer Programming Lab (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
PH-111 A/ CH-111 A	Physics Lab (For AE, AU, BT, Civil, Mech, ECE, EE) / Chemistry Lab (For All CSE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111 A/ WP-1011/ WP-112	Workshop Practices - I (For CSE, ECE, EE) / IOT Workshop(ECE - IOT Specialisation)/ Workshop Practices - II (For AE, AU, BT, Civil, All Mech)	0	0	3	3	75	50	125	2 Hrs.	1.5
EC-212 / M-211 / BT-211	Digital Electronics and Circuits Lab (For CSE, ECE, EE)/ Applied Mechanics Lab (For AE AU, Civil, All ME) / Biomolecules Lab (For BT)	0	0	2	2	25	25	50	2 Hrs	1
	Total (For ECE, EE ,AE, AU, BT, Civil, All Mech)	**18**	**4**	**9**	**31**	**500**	**725**	**1225**		**27.5**
CS-216	Computer Programming Lab-II*	0	0	4	4	25	25	50	2 Hrs	2

	Total (For CSE)	**15**	**3**	**13**	**31**	**475**	**650**	**1125**		**25.5**
CS-205	Web Programming through PHP & HTML ##	3	1	0	4	50	100	150	3 Hrs	4
CS-215	Web Programming through PHP & HTML Lab##	0	0	2	2	25	25	50	2 Hrs	1
	Total (For CSE-IBM Programmes)	**18**	**4**	**15**	**37**	**550**	**775**	**1325**		**30.5**
EC-2001	Internet of Things (IOT)-II***	2	0	0	2	50	100	150	2 Hrs	2
	Total (For ECE-IOT Specialisation)	**20**	**4**	**9**	**33**	**550**	**825**	**1375**		**29.5**

*** Additional courses only for all programmes of B.Tech. Computer Science & Engineering**

**** Classes will be conducted in a batch size of 30 students and external evaluation will be conducted by a duly constituted committee of internal examiners through a viva-voce examination / practical exercises during the end-semester practical examinations.**

***** Additional course only for the programme of B.Tech. Electronics & Communication Engineering -IOT Specialisation.**

Additional course only for the programme of B.Tech. CSE-IBM Programmes.

 # 01 extra credit for Field Visits. The breakup of total 50 internal marks includes 20 marks for sessional tests, 5 marks for attendance and remaining 25 marks for Field Work & Report Writing / Model Making.

Workshop Practices Detail		
WP-111A / WP-1011	Workshop Practices- I / IOT- Workshop(Only for ECE -IOT Specialisation)	Electrical, Electronics, Computer H/W Shop
WP-112	Workshop Practices - II	Machine, Fitting & Sheet Metal, Welding

For the students admitted in 2017-18

STUDY SCHEME

B.Tech. in Computer Science and Engineering

SEMESTER-III										
Subject Code	**Subject**	**Periods/Week**				**Marks**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
CS-301A	Discrete Structures	3	1	0	4	50	100	150	3 Hrs	4
CS-302	Data Structures and Algorithms	3	1	0	4	50	100	150	3 Hrs	4
CS-303A	Computer Architecture and Organization	3	0	0	3	50	100	150	3 Hrs	3
CS-304A	Object Oriented Programming Systems	3	1	0	4	50	100	150	3 Hrs	4
CS-305A	Database Management Systems	3	0	0	3	50	100	150	3 Hrs	3
CS-308	Introduction to IT infrastructure Landscape	3	0	0	3	50	100	150	3 Hrs	3
MA-302	Applied Maths- III	3	0	0	3	50	100	150	3 Hrs	3
CS-312	Data Structures and Algorithms Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-314	Object Oriented Programming Systems Lab	0	0	2	2	25	25	50	2 Hrs	1

CS-315A	Database Management Systems Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-333	Statistical Computing Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-300	Introduction to Research	0	1	0	1	50		50	1 Hr	1
	TOTAL	**21**	**4**	**8**	**33**	**500**	**800**	**1300**		**29**

SEMESTER-IV										
Subject Code	**Subject**	**Periods/Week**				**Marks**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
IT-401A	Data Communication and Computer Networks	3	0	0	3	50	100	150	3 Hrs	3
CS-402	Analysis & Design of Algorithms	3	1	0	4	50	100	150	3 Hrs	4
IT-402	Java Programming	3	0	0	3	50	100	150	3 Hrs	3
CS-403A	Principles of Operating Systems	3	1	0	4	50	100	150	3 Hrs	4
CS-404A	Theory of Automata and Computation	3	1	0	4	50	100	150	3 Hrs	4
EC-401B	Micro Processor and Interfacing	3	1	0	4	50	100	150	3 Hrs	4
CS-412	Analysis and Design of Algorithms Lab	0	0	2	2	25	25	50	2 Hrs	1
IT-412	Java Programming Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-413	Principles of Operating Systems Lab	0	0	2	2	25	25	50	2 Hrs	1
EC-411A	Micro Processor and Interfacing Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-434	Mobile Application Development Lab	0	0	2	2	25	25	50	2 Hrs	1
HM-403B	Quantitative Aptitude and Personality Development-I (QAPD-I)	3	0	0	3	50	50	100	2 Hrs	3
HM-404	Holistic Wellness & Life Skills-II	1	0	0	1	50	50	100	2 Hrs	1
CS-400A	Technical Seminar-I	0	1	0	1	50		50	1 Hr	1
	TOTAL	**22**	**5**	**10**	**37**	**575**	**825**	**1400**		**32**

For the students admitted in 2017-18

STUDY SCHEME

B.Tech. in Computer Science and Engineering

SEMESTER-V										
Subject Code	**Subject**	**Periods/Week**				**Marks**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
CS-502A	Computer Graphics	3	1	0	4	50	100	150	3 Hrs	4
CS-504	Web Technology and Cyber Security	3	0	0	3	50	100	150	3 Hrs	3
CS-506	Software Testing and Quality Assurance	3	0	0	3	50	100	150	3 Hrs	3
CS-522	Software Engineering and Development Processes	3	0	0	3	50	100	150	3 Hrs	3
	Elective - D1	3	1	0	4	50	100	150	3 Hrs	4
	Elective - G1	2	0	0	2	50	50	100	2 Hrs	2
CS-512	Computer Graphics Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-514	Web Technology and Cyber Security Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-532	Software Engineering and Development Processes Lab	0	0	2	2	25	25	50	2 Hrs	1

	Elective - D2	0	0	2	2	25	25	50	2 Hrs	1
HM-505A	Quantitative Aptitude and Personality Development-II (QAPD-II)	3	0	0	3	50	50	100	2 Hrs	2
CS-500	Technical Seminar-II	0	1	0	1	50		50	1 Hr	1
	TOTAL	**20**	**3**	**8**	**31**	**500**	**700**	**1200**		**26**

Subject Code	**Elective - D1**
CS-523	C# and .NET
CS-524	J2EE Programming
CS-724	Advanced DBMS
IT-801	Advance Java Programming

Subject Code	**Elective - D2**
CS-533	C# and .NET Lab
CS-534	J2EE Programming Lab
CS-734	Advanced DBMS Lab
IT-811	Advance Java Programming Lab

Subject Code	**Elective - G1**
HM-506	French-1
HM-507	German-1
HM-508	Spanish-1
HM-509	Japanese-1

For the students admitted in 2017-18

STUDY SCHEME

B.Tech. in Computer Science and Engineering

SEMESTER-VI

Subject Code	**Subject**	**Periods/Week**				**Marks**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
CS-501	Information Storage and Management	3	0	0	3	50	100	150	3 Hrs	3
CS-703	System Programming and System Administration	3	0	0	3	50	100	150	3 Hrs	3
CS-801	Artificial Intelligence	3	0	0	3	50	100	150	3 Hrs	3
IT-821	Software Project Management	3	0	0	3	50	100	150	3 Hrs	3
	Elective - O1	3	0	0	3	50	100	150	3 Hrs	3
	Elective - G2	2	0	0	2	50	50	100	2 Hrs	2
CS-713	System Programming and System Administration Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-811	Artificial Intelligence Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-639	Network Simulation Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-654	Problem Solving Techniques Lab	0	0	4	4	25	25	50	2 Hrs	2
CS-610	Business Processes	2	0	0	2	25	50	75	2 Hrs	2
HM-603A	Quantitative Aptitude and Personality Development-III (QAPD-III)	2	0	0	2	50	50	100	2 Hrs	2
HM-604	Holistic Wellness & Life Skills-III	1	0	0	1	50	50	100	2 Hrs	1
CS-600	*Project - Phase-I	0	0	2	2	50		50		1
	TOTAL	**22**	**0**	**12**	**34**	**575**	**800**	**1375**		**28**

* Project has to continue in 8th Semester(CS-850)

Subject Code	Elective - O1
HM-501	Industrial Management
EC-753	Fundamentals of Embedded systems
EC-726	Advances in Wireless Communication
EC-751	Fundamentals of Digital System Design
EC-530	Digital Signal Processing and its Applications
COM-0306	Entrepreneurship Development
EC-838	Robotics

Subject Code	Elective - G2
HM-606	French-2
HM-607	German-2
HM-608	Spanish-2
HM-609	Japanese-2

For the students admitted in 2017-18

STUDY SCHEME

B.Tech. in Computer Science and Engineering

SEMESTER-VII

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
CS-828A	Big Data Analytics	3+2	1	0	6	50	100	150	3 Hrs	4
IT-701	Network Programming and Administration	3+2	0	0	5	50	100	150	3 Hrs	3
	Elective - D3	3+2	1	0	6	50	100	150	3 Hrs	4
	Elective - O2	4+2	0	0	6	50	100	150	3 Hrs	4
CS-838A	Big Data Analytics Lab	0	0	2+1	3	25	25	50	2 Hrs	1
IT-711	Network Programming and Administration Lab	0	0	2+1	3	25	25	50	2 Hrs	1
CS-650	Colloquium	0	2	0	2	50		50		2
CS-800A	Industrial Training	10 weeks				200	100	300		8
	TOTAL	**0**	**4**	**0**	**31**	**500**	**550**	**1050**		**27**

Subject Code	Elective - O2
HM-821	Marketing Management
HM-822	Human Resource Management
HM-823	Project Management

Subject Code	Elective - D3
CS-624	System Analysis and Design
CS-822	Digital Image Processing
CS-722	Advanced Computer Architecture
CS-826	Mobile Computing
IT-721	Management Information Systems

Note: - Two hours extra teaching load per theory subject will be incorporated in the time table. Total teaching hours are 21 hours, which are not appropriate to complete the syllabus. Now total teaching hours will be 29 hours after increasing 2 hours per theory subject and one hour for lab subject.

For the students admitted in 2017-18

STUDY SCHEME

B.Tech. in Computer Science and Engineering

SEMESTER-VIII

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
IT-822	Data Warehouse and Data Mining	3	1	0	4	50	100	150	3 Hrs	4
	Elective - D4	3	1	0	4	50	100	150	3 Hrs	4
	Elective - D5	3	1	0	4	50	100	150	3 Hrs	4
	Elective - D6	3	1	0	4	50	100	150	3 Hrs	4
	Elective - D7	0	0	2	2	25	25	50	2 Hrs	1
CS-850	Project Phase-II / Industrial Project	0	0	12	12	250	150	400		6
	TOTAL	**12**	**4**	**14**	**30**	**475**	**575**	**1050**		**23**

Subject Code	Elective - D4
CS-805	Simulation and Modelling
CS-806	Advanced Computing
CS-807	Computational Game Theory

Subject Code	Elective - D5
CS-808	Machine Learning Techniques
CS-809	Biometric Security
CS-827	Adhoc and Wireless Sensor Networks
CS-824	Natural Language Processing
CS-701	Compiler Design

Subject Code	Elective - D7
CS-815	Simulation and Modelling Lab
CS-816	Advanced Computing Lab
CS-817	Computational Game Theory Lab

Subject Code	Elective - D6
CS-823A	Soft Computing
CS-825	Distributed Operating System
CS-709	Grid Computing
CS-743	Neural Networks
CS-744	Fuzzy Theory

B.Tech-Electronics and Communication Engineering

STUDY SCHEME FOR FIRST YEAR B.TECH 2017-21 BATCH

SEMESTER-I

(Common for All B.Tech. Programmes)

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
PH-101B	Applied Physics-I	3	1	0	4	50	100	150	3 Hrs	4
MA-101B/ MA-103	Applied Maths-I(For All CSE, ECE, EE, AE, AU, Civil, All Mech)/ Mathematics for Biotechnology-I (For BT only)	3	1	0	4	50	100	150	3 Hrs	4

CH-101B	Industrial Chemistry	3	0	0	3	50	100	150	3 Hrs	3
HM-104	Professional Communication -I	2	0	0	2	50	50	100	2 Hrs	2
CS-101	Elements of Computer and Programming	3	1	0	4	50	100	150	3 Hrs	4
EE-101B / EE-102A	Elements of Electrical Engineering (For All CSE, ECE,EE) /Elements of Electrical and Electronics Engineering (For AE, AU, BT, Civil, All Mech)	3	1	0	4	50	100	150	3 Hrs	4
PH-111A /CH-111 A	Physics Lab (For All CSE) /Chemistry Lab (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
CS-111/ M-111	Computer Programming Lab (For All CSE)/Computer Aided Drafting (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111A / WP-112	Workshop Practices - I (For AE, AU, BT, Civil, All Mech) / Workshop Practices - II (For All CSE, ECE, EE)	0	0	3	3	75	50	125	2 Hrs	1.5
	Total (For ECE, EE, AE, AU, BT, Civil, All Mech)	**17**	**4**	**7**	**28**	**425**	**650**	**1075**		**24.5**
CS-104 A/ EC-1001	Introduction to Open Source Software and Open Standards***/ Internet of Things (IOT)-I*****	2	0	0	2	50	100	150	2 Hrs	2
	Total (For CSE Programmes/ ECE-IOT Specialisation)	**19**	**4**	**7**	**30**	**475**	**750**	**1225**		**26.5**
	SEMESTER-II									
PH-201B	Applied Physics-II	3	1	0	4	50	100	150	3 Hrs	4
MA-201B/ MA-203	Applied Maths-II (For All CSE, ECE, EE,AE, AU, Civil, All Mech)/ Mathematics for Biotechnology-II (For BT only)	3	1	0	4	50	100	150	3 Hrs	4
CH-202 B	Environmental Studies	3	0	0	3	50**#**	100	150	3 Hrs	3 + 1**#**
HM-204	Professional Communication -II	2	0	0	2	50	50	100	2 Hrs	2
HM-205	Holistic Wellness & Life Skills-I**	1	0	0	1	50	50**	100	2 Hrs	1
EC-202 / M-201 / BT-201	Digital Electronics and Circuits (For All CSE, ECE, EE) / Applied Mechanics (For AE, AU, Civil, All ME) / Biomolecules (For BT)	3	1	0	4	50	100	150	3 Hrs	4

EC-201/ AE-201 / M-202 / C-201 / BT-202	Analog Electronics (For ECE, EE) / Basics of Aeronautical Engineering (For AE) / Engineering Materials & Heat treatment (For AU, All ME) / Construction Materials (For Civil) / Genetics and Cytogenetics (For BT)	3	1	0	4	50	100	150	3 Hrs	4
M-111 / CS-111	Computer Aided Drafting (For All CSE) / Computer Programming Lab (For AE, AU, BT, Civil, All Mech, ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
PH-111 A/ CH-111 A	Physics Lab (For AE, AU, BT, Civil, Mech, ECE, EE) / Chemistry Lab (For All CSE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111 A/ WP-1011/ WP-112	Workshop Practices - I (For CSE, ECE, EE) / IOT Workshop(ECE - IOT Specialisation)/ Workshop Practices - II (For AE, AU, BT, Civil, All Mech)	0	0	3	3	75	50	125	2 Hrs.	1.5
EC-212 / M-211 / BT-211	Digital Electronics and Circuits Lab (For CSE, ECE, EE)/ Applied Mechanics Lab (For AE AU, Civil, All ME) / Biomolecules Lab (For BT)	0	0	2	2	25	25	50	2 Hrs	1
	Total (For ECE, EE ,AE, AU, BT, Civil, All Mech)	**18**	**4**	**9**	**31**	**500**	**725**	**1225**		**27.5**
CS-216	Computer Programming Lab-II*	0	0	4	4	25	25	50	2 Hrs	2
	Total (For CSE)	**15**	**3**	**13**	**31**	**475**	**650**	**1125**		**25.5**
CS-205	Web Programming through PHP & HTML **##**	3	1	0	4	50	100	150	3 Hrs	4
CS-215	Web Programming through PHP & HTML Lab**##**	0	0	2	2	25	25	50	2 Hrs	1
	Total (For CSE-IBM Programmes)	**18**	**4**	**15**	**37**	**550**	**775**	**1325**		**30.5**
EC-2001	Internet of Things (IOT)-II***	2	0	0	2	50	100	150	2 Hrs	2
	Total (For ECE)	**20**	**4**	**9**	**33**	**550**	**825**	**1375**		**29.5**

*** Additional courses only for all programmes of B.Tech. Computer Science & Engineering**
**** Classes will be conducted in a batch size of 30 students and external evaluation will be conducted by a duly constituted committee of internal examiners through a viva-voce examination / practical exercises during the end-semester practical examinations.**
***** Additional course only for the programme of B.Tech. Electronics & Communication Engineering - IOT Specialisation.**
Additional course only for the programme of B.Tech. CSE-IBM Programmes.
 # 01 extra credit for Field Visits. The breakup of total 50 internal marks includes 20 marks for sessional tests, 5 marks for attendance and remaining 25 marks for Field Work & Report Writing / Model Making.

Workshop Practices Detail		
WP-111A / WP-1011	Workshop Practices- I / IOT- Workshop(Only for ECE -IOT Specialisation)	Electrical, Electronics, Computer H/W Shop
WP-112	Workshop Practices - II	Machine, Fitting & Sheet Metal, Welding

SEMESTER-III										
Course Code	**Course Title**	**Total Number of Contact Hours**				**Marks**			**Duration of Exam**	**Credits**
		Lecture (L)	**Tutorial (T)**	**Practical (P)**	**Total Hours**	**Int**	**Ext**	**Total**		
EC-303A	Signals and Systems	3	1	0	4	50	100	150	3 Hrs	4
EC-321	Analog Electronic Circuits-I	3	1	0	4	50	100	150	3 Hrs	4
EE-306	Measurements and Instrumentation	3	0	0	3	50	100	150	3 Hrs	3
EE-301B	Network Analysis and Synthesis	3	1	0	4	50	100	150	3 Hrs	4
CS-302	Data structures and Algorithms	3	1	0	4	50	100	150	3 Hrs	4
EC-341	Analog Electronics Lab	0	0	2	2	25	25	50	2 Hrs	1
EE-316	Measurements and Instrumentation Lab	0	0	2	2	25	25	50	2 Hrs	1
EE-311	Network Analysis Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-312	Data structures and Algorithms Lab	0	0	2	2	25	25	50	2 Hrs	1
HM-403B	Quantitative Aptitude & Personality Development - I	3	0	0	3	50	50	100	1.5 Hrs	3
EC-300	Introduction to Research	0	1	0	1	50		50		1
	Total									**27**

SEMESTER-IV

Course Code	Course Title	Total Number of Contact Hours				Marks			Duration of Exam	Credits
		Lecture (L)	Tutorial (T)	Practical (P)	Total Hours	Int	Ext	Total		
EC-401B	Microprocessor and Interfacing	3	1	0	4	50	100	150	3 Hrs	4
EC-421	Electromagnetic Theory	3	1	0	4	50	100	150	3 Hrs	4
EC-422	Hardware Digital Design	3	1	0	4	50	100	150	3 Hrs	4
EC-423	Analog Electronic Circuits-II	3	1	0	4	50	100	150	3 Hrs	4
CS-405	Cyber Security	2	0	0	2	25	50	75	2 Hrs	2
EC-411A	Microprocessor and Interfacing Lab	0	0	2	2	25	25	50	2 Hrs	1
EC-413	Analog Electronic Circuit Simulation Lab	0	0	2	2	25	25	50	2 Hrs	1
EC-442	Hardware Digital Design Lab	0	0	2	2	25	25	50	2 Hrs	1
HM-404	Holistic wellness and Life Skills-II**	1	0	0	1	50	50	100	2 Hr	1
EC-400	Technical Seminar-I	0	1	0	1	50		50		1
MA-441	MATHS -III	3	0	0	3	50	100	150	3Hrs	3
	Total									**26**
	SEMESTER-V									
Course Code	**Course Title**	**Total Number of Contact Hours**				**Marks**			**Duration of Exam**	**Credits**
		Lecture (L)	**Tutorial (T)**	**Practical# (P)**	**Total Hours**	**Int**	**Ext**	**Total**		
EC-501B	Antenna and Wave Propagation	3	1	0	4	50	100	150	3 Hrs	4
EC-502B	Digital Signal Processing	3	1	0	4	50	100	150	3 Hrs	4
EC-521	Microcontroller and Interfacing	3	1	0	4	50	100	150	3 Hrs	4
EC-522	Communication Systems-I	3	1	0	4	50	100	150	3 Hrs	4
EC-512 A	Digital Signal Processing lab	0	0	2	2	25	25	50	2 Hrs	1
EC-541	Microcontroller and Interfacing Lab	0	0	2	2	25	25	50	2 Hrs	1
EC-542	Communication Engineering Lab	0	0	2	2	25	25	50	2 Hrs	1
HM-505A	Quantitative Aptitude and Personality Development-II(QAPD-II)	0	0	2	2	25	25	50	2 Hrs	1
EC-500	Technical Seminar- II	2	0	0	2	50	50	100	2 Hrs	2
	ELECTIVE-O-1									
CS-	Object Oriented Programming using	3	0	0	3	50	100	150	3 Hrs	3

321	Java									
CS-529	Programming with Dot Net and C #									
CS-527	Computer Graphics & Applications									
CS-205	Web Programming using PHP & HTML									
BT-504	Bioinformatics									
ELECTIVE-G-1										
HM-506	FRENCH-I	2	0	0	2	50	50	100	2Hrs	2
HM-507	GERMAN-I									
HM-508	SPANISH-I									
HM-509	JAPANESE-I									
Total										**27**

SEMESTER-VI

Course Code	Course Title	Total Number of Contact Hours				Marks			Duration of Exam	Credits
		Lecture (L)	Tutorial (T)	Practical# (P)	Total Hours	Int	Ext	Total		
EC-621	Microwave Devices and Circuits	3	1	0	4	50	100	150	3 Hrs	4
EC-622	Communication Systems-II	3	1	0	4	50	100	150	3 Hrs	4
EC-623	VLSI Technology and circuits	3	1	0	4	50	100	150	3 Hrs	4
EE-606	Control Engineering	3	1	0	4	50	100	150	3 Hrs	4
EC-641	Microwave Devices Lab	0	0	2	2	25	25	50	2 Hrs	1
EC-643	VLSI Technology and circuits Lab	0	0	2	2	25	25	50	2 Hrs	1
CS-610	Business Processes	2	0	0	2	25	50	75	2 Hrs	2
HM-603A	Quantitative Aptitude and Personality Development-III(QAPD-III)	2	0	0	2	50	50	100	2 Hrs	2
HM-604	Holistic wellness and life Skills-III**	1	0	0	1	50	50	100	2 Hrs	1
EC-600	Project Phase-I	0	0	2	2	50		50		1
	ELECTIVE-D-1									
EC-624	Principles of RADAR Systems	3	0	0	3	50	100	150	3 Hrs	3

EC-625	Consumer Electronics									
EC-626	Embedded Systems									
EC-631	IoT Design									
EC-627	Application Specific Integrated Circuits (ASICs)									
	ELECTIVE-D-2									
EC-642	Embedded Systems Lab	0	0	2	2	25	25	50	2 Hrs	1
EC-644	Simulation Lab									
EC-647	IoT Design Lab									
EC-645	PCB Designing Lab									
	ELECTIVE-G-2									
HM-606	FRENCH-II	2	0	0	2	50	50	100	2Hrs	2
HM-607	GERMAN-II									
HM-608	SPANISH-II									
HM-609	JAPANESE-II									
	Total									**30**

**-Classes will be conducted in the batch size of 30 students and external evaluation will be conducted by duly constituted committee of inetrnal examiners through a Viva-voce examination/practical exercises during the end semester practical exams

SEMESTER-VII

Course Code	**Course Title**	**Total Number of Contact Hours**				**Marks**			**Duration of Exam**	**Credits**
		Lecture (L)	**Tutorial (T)**	**Practical # (P)**	**Total Hours**	**Int**	**Ext**	**Total**		
EC-800 A	**Industrial training**	**10 weeks**				**200**	**100**	**300**		**8**
EC-725	Data Communication and Networking	5	0	0	5*	50	100	150	3Hrs	3
EC-726	Advances in Wireless Communication	5	0	0	5*	50	100	150	3Hrs	3
EC-723B	Optical Communication	5	0	0	5*	50	100	150	3Hrs	3
EC-750	Colloquium	0	2	0	2	50	0	50		2
	ELECTIVE-D-3									
EC-727	Micro Electro Mechanical System (MEMS)	5	0	0	5*	50	100	150	3 Hrs	3
EC-728	Advanced Microcontrollers & Processors									

EC-729	Soft Computing Techniques									
EC-732	Wireless Embedded Internet									
EC-730	Android and its applications									
	ELECTIVE-D-4									
EC-746	Advanced Communication Lab	0	0	3	3*	25	25	50	2Hrs	1
EC-747	Android and its applications based lab									
	Total									**23**

*** NOTE: Contact hours per week have been increased due to compressed 7th Semester**

SEMESTER-VIII

Course Code	Course Title	Total Number of Contact Hours				Marks			Duration of Exam	Credits
		Lecture (L)	Tutorial (T)	Practical # (P)	Total Hours	Int	Ext	Total		
EC-850	Project Phase-II	0	0	16	16	250	150	400	3 Hrs	8
	ELECTIVE-D-5									
EC-841	Advances in Mobile Computing	3	0	0	3	50	100	150	3 Hrs	3
EC-842	Image Processing and Applications									
EC-833	Nanotechnology									
EC-831	Designing Connected Products									
EC-834	Electronic Manufacturing Practices									
EC-835	Arm Processor and RTOS									
	ELECTIVE-D-6									
EC-836	Advances in Satellite Communication	3	0	0	3	50	100	150	3 Hrs	3
EC-837	Mixed Signal Design									
EC-838	Robotics									
EC-832	IoT Analytics & Security									
EC-839	Electronic Components & Materials									
EC-840	Ad-hoc and Sensor Networks									
	ELECTIVE-O-2									
EE-741	PLC & Data Acquisition	3	0	0	3	50	100	150	3Hrs	3

EE-742	Industrial Electronics									
CS-528	Cloud Computing									
CS-625	Intelligent Systems									
IT-301	Multimedia and Animation									
HM-501	Industrial Management									
COM-0306A	Entrepreneurship Development									
	ELECTIVE-D-7									
EC-848	Advanced VLSI Lab	0	0	2	2	25	25	50	2Hrs	1
EC-849	Robotics lab									
	Total									**18**

B.Tech-Electrical & Electronics Engineering

STUDY SCHEME FOR FIRST YEAR B.TECH 2018-22 BATCH

SEMESTER-I

(Common for All B.Tech. Programmes)

Subject Code	**Subject**	**Periods/Week**				**Marks**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
BSC-PH-101	Physics (Introduction to Electromagnetic Theory-Aero, Auto, Mech)	5#	1	0	6	50	100	150	3 hrs	4
BSC-PH-102	Physics(Mechanics- Civil)									
BSC-PH-103	Physics(Applied Physics-BT)									
BSC- CH-101	Chemistry-I (Group B)									
BSC- MA-101/102/ MA-103	Mathematics for Computer Science & Engineering –I /Mathematics-I/Mathematics for Biotechnology-I (For BT only)	5#	1	0	6	50	100	150	3 hrs	4
ESC -EE-101/ ESC-CS-101	Basic Electrical Engg(Group A)/ Programming for Problem Solving(Group B)	4#	1/0	0	5/4	50	100	150	3 hrs	4/3
ESC- ME-101/ ESC – ME-102	Engg Graphics & Design(Group A)/ Workshop/Manufacturing	1	0	5#	6	100	50	150	3 hrs	3

	Practices(Group B)									
BSC- PH-111/ BSC-CH- 111	Physics lab (Group A)/ Chemistry-I lab (Group B)	0	0	4#	4	25	25	50	2 hrs	1.5
ESC- EE-111/ ESC-CS-111	Basic Electrical Engg lab(Gp A)/ Programming forProblem Solving lab (Group B)	0	0	3#/5#	3/5	25	25	50	2 hrs	1/2
	Total (Group A/ Group B)	**15**	**3/2**	**12/14**	**30/31**	**300**	**400**	**700**		**17.5**
CS-104A	Introduction to Open Source Software and Open Standards *	3#	0	0	3	50	100	150	3 hrs	2
EC-1001	Internet of Things (IOT)-I***	2	0	0	2	50	100	150	3 Hrs	2
	Total (CSE-IBM specializations & ECE)									**19.5**

SEMESTER-II

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
BSC- CH-101	Chemistry-I (Group A)	4##	1	0	4	50	100	150	3 hrs	4
BSC- PH-101	Physics (Introduction to Electromagnetic Theory- EEE)									
BSC- PH-104	Physics (Semiconductor Physics- CSE, ECE)									
BSC- MA-201/202/ MA-203	Mathematics for Computer Science & Engineering –II /Mathematics- II/ Mathematics for Biotechnology-II (For BT only)	4##	1	0	4	50	100	150	3 hrs	4
ESC- CS-101/ ESC- EE-101	Programming for Problem Solving(Group A)/ Basic Electrical Engg (Group B)	3	0/1	0	3/4	50	100	150	3 hrs	3/4
ESC-ME-102/ ESC-ME-101	Workshop/Manufacturing Practices(Group A)/ Engg Graphics & Design(Group B)	1	0	4	5	100	50	150	3 hrs	3
HSMC-101	English	2	0	0	2	50	50	100	2 hrs	2
BSC- CH-111/ BSC- PH-111	Chemistry-I lab (Group A)/ Physics lab (Group B)	0	0	3	3	25	25	50	2 hrs	1.5
ESC- CS-111/ ESC- EE-	Programming for Problem Solving lab (Gp A)/ Basic Electrical Engg	0	0	4/2	4/2	25	25	50	2 hrs	2/1

111	lab(Group B)									
HSMC-111	English lab	0	0	2	2	25	25	50	2 hrs	1
	Total (Group A/ Group B)	**14**	**2/3**	**13/11**	**29/ 28**	**375**	**475**	**850**		**20.5**
CS-215	Web Programming through PHP & HTML Lab*	0	0	4	4	25	25	50	2 hrs	2
EC-2001	Internet of Things (IOT)-II***	2	0	0	2	50	100	150	3 hrs	2
	Total (CSE-IBM specializations & ECE)									**22.5**

GROUP A: BT, MECH, Aero, Auto, Civil
GROUP B: CSE & IBM SPECIALISATIONS, ECE, EEE
***** Additional course only for the programme of B.Tech. Electronics & Communication Engineering**
 # NOTE: Contact hours per week have been increased due to compressed 1st Semester and bridge course.
NOTE: Contact hours per week have been increased due to bridge course.
*** Additional courses only for the programme of B.Tech. Computer Science & Engineering in Association with IBM with various specializations.**

STUDY SCHEME FOR B.TECH ELECTRICAL AND ELECTRONICS ENGINEERING 2018 onwards

SEMESTER III										
Subject Code	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
	Electrical Circuit Analysis	3	1	0	4	50	100	150	3 Hrs	4
	Electrical Machines – I	3		0	3	50	100	150	3Hrs	3
	Electromagnetic Fields	3	1	0	4	50	100	150	3Hrs	4
	Analog Electronics	3		0	3	50	100	150	3Hrs	3
	Engineering Mechanics	3	1	0	4	50	100	150	3Hrs	4
	Electrical Machines – I Lab	0	0	2	2	25	25	50	2 Hrs	1
	Analog Electronics Lab	0	0	2	2	25	25	50	2 Hrs	1
	Slot for MC									
TOTAL		**15**	**3**	**4**	**22**	**300**	**550**	**850**		**20**
SEMESTER IV										
	Electrical Machines – II	3	0	0	3	50	50	150	3Hrs	3
	Power Electronics	3	0	0	3	50	100	150	3Hrs	3
	Digital Electroincs	3	0	0	3	50	100	150	3Hrs	3
	Signal & Systems	2	1	0	3	50	100	150	3Hrs	3
	Biology-I	2	1	0	3	50	100	150	3Hrs	3
	Mathematics-III	3	1	0	4	25	50	75	2Hrs	4

	Electrical Machines – II Lab	0	0	2	2	25	25	50	2Hrs	1
	Power Electronics Lab	0	0	2	2	25	25	50	2Hrs	1
	Digital Electroincs Lab	0	0	2	2	25	25	50	2 Hrs	1
	Slot for MC									
TOTAL		**16**	**3**	**6**	**25**	**350**	**575**	**975**		**22**

SEMESTER V										
Subject Code	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
	Power Systems-I	3	0	0	3	50	100	150	3Hrs	3
	Control Systems	3	0	0	3	50	100	150	3Hrs	3
	Microprocessors	3	0	0	3	50	100	150	3Hrs	3
	Program Elective-I^	3	0	0	3	50	100	150	3Hrs	3
	Open Elective-I	3	0	0	3	50	100	150	3Hrs	3
	Industrial Management	3	0	0	3	50	100	150	3 Hrs	3
	Power Systems -I Lab	0	0	2	2	25	25	50	2 Hrs	1
	Microprocessors Lab	0	0	2	2	25	25	50	2 Hrs	1
	Control System Lab	0	0	2	2	25	25	50	2 Hrs	1
TOTAL		**18**	**0**	**6**	**24**	**375**	**675**	**1050**		**21**

SEMESTER VI										
	Power Systems-II	3	0	0	3	50	100	150	3Hrs	3
	Measurements & Instrumentation	2	0	0	2	50	100	150	3Hrs	2
	Program Elective-II^	3	0	0	3	50	100	150	3Hrs	3
	Program Elective-III^	3	0	0	3	50	100	150	3Hrs	3
	Open Elective-II	3	0	0	3	50	100	150	3Hrs	3
	Power Systems-II Lab	0	0	2	2	25	25	50	2 Hrs	1
	Measurements & Instrumentation lab	0	0	2	2	25	25	50	2 Hrs	1
	Electronic Design Laboratory	1	0	4	5	50	50	100	2 Hrs	3
COM-O306	Entrepreneurship Development	3	0	0	3	50	100	150	3 Hrs	3
TOTAL		**18**	**0**	**8**	**26**	**400**	**700**	**1100**		**22**
	Summer Training during summer Vaccation non creditable									

SEMESTER VII										
Subject Code	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exa**	**Credits**
		L$	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTA**		

								L	m	
	Program Elective IV^	3	0	0	6	50	100	150	3 Hrs	3
	Program Elective V^	3	0	0	6	50	100	150	3Hrs	3
	Open Elective- III	3	0	0	6	50	100	150	3Hrs	3
	Open Elective-IV	3	0	0	4	50	100	150	3Hrs	3
	Project (Phase-I)	0	0	6	3	150	150	300	6Hrs	3
	Total Quality Management	3	0	0	3	50	100	150		3
	TOTAL	**15**	**0**	**6**	**28**	**400**	**650**	**1050**		**18**

SEMESTER VIII

	Program Elective VI^	3	0	0	3	50	100	150	3hrs	3
	Open Elective-V	3	0	0	3	50	100	150	3hrs	3
	Open Elective-VI	3	0	0	3	50	100	150	3hrs	3
EE-850	Project (Phase-II)	0	0	16	16	250	150	400	3Hrs	8
	TOTAL	**9**	**0**	**16**	**25**	**400**	**450**	**850**		**17**

^The Programme Electives is to be selected from the list given in next page

###Open electives is to be selected from list of Open electives given in next page

B.Tech: Mechanical Engineering

Scheme: (2017-2021) Batch

SEMESTER-I

(Common for All B.Tech. Programmes)

Subject Code	Course	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
PH-101B	Applied Physics-I	3	1	0	4	50	100	150	3 Hrs	4
MA-101B/ MA-103	Applied Maths-I(For All CSE, All ECE, EE, AE, AU, Civil, All Mech)/ Mathematics for Biotechnology-I (For BT only)	3	1	0	4	50	100	150	3 Hrs	4
CH-101B	Industrial Chemistry	3	0	0	3	50	100	150	3 Hrs	3
HM-104	Professional Communication -I	2	0	0	2	50	50	100	2 Hrs	2
CS-101	Elements of Computer and Programming	3	1	0	4	50	100	150	3 Hrs	4

EE-101B / EE-102A	Elements of Electrical Engineering (For All CSE,All ECE,EE) /Elements of Electrical and Electronics Engineering (For AE, AU, BT, Civil, All Mech)	3	1	0	4	50	100	150	3 Hrs	4
PH-111A/ CH-111 A	Physics Lab (For All CSE) /Chemistry Lab (For AE, AU, BT, Civil, All Mech, All ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
CS-111/ M-111	Computer Programming Lab (For All CSE)/Computer Aided Drafting (For AE, AU, BT, Civil, All Mech, All ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111A/ WP-112	Workshop Practices - I (For AE, AU, BT, Civil, All Mech) / Workshop Practices - II (For All CSE, All ECE, EE)	0	0	3	3	75	50	125	2 Hrs	1.5
	Total (For ECE, EE, AE, AU, BT, Civil, All Mech)	**17/ 17**	**4/4**	**7/7**	**28/ 28**	**425/ 425**	**650/650**	**1075/ 1075**		**24.5/24. 5**
CS-104 A/ EC-1001	Introduction to Open Source Software and Open Standards***/ Internet of Things (IOT)-I*****	2	0	0	2	50	100	150	2 Hrs	2
	Total (For CSE Programmes/ ECE-IOT Specialisation)	**19**	**4**	**7**	**30**	**475**	**750**	**1225**		**26.5**

SEMESTER-II										
PH-201B	Applied Physics-II	3	1	0	4	50	100	150	3 Hrs	4
MA-201B/ MA-203	Applied Maths-II (For All CSE,All ECE, EE,AE, AU, Civil, All Mech)/ Mathematics for Biotechnology-II (For BT only)	3	1	0	4	50	100	150	3 Hrs	4
CH-202B	Environmental Studies	3	0	0	3	50**#**	100	150	3 Hrs	3 + 1**#**
HM-204	Professional Communication -II	2	0	0	2	50	50	100	2 Hrs	2
HM-205	Holistic Wellness & Life Skills-I**	1	0	0	1	50	50**	100	2 Hrs	1
EC-202 / M-201 / BT-201	Digital Electronics and Circuits (For All CSE,All ECE, EE) / Applied Mechanics (For AE, AU, Civil, All ME) / Biomolecules (For BT)	3	1	0	4	50	100	150	3 Hrs	4

EC-201/ AE-201 / M-202 / C-201 / BT-202	Analog Electronics (ForAll ECE, EE) / Basics of Aeronautical Engineering (For AE) / Engineering Materials & Heat treatment (For AU, All ME) / Construction Materials (For Civil) / Genetics and Cytogenetics (For BT)	3	1	0	4	50	100	150	3 Hrs	4
M-111 / CS-111	Computer Aided Drafting (For All CSE) / Computer Programming Lab (For AE, AU, BT, Civil, All Mech, All ECE, EE)	0	0	2	2	25	25	50	2 Hrs	1
PH-111 A/ CH-111 A	Physics Lab (For AE, AU, BT, Civil, Mech,All ECE, EE) / Chemistry Lab (For All CSE)	0	0	2	2	25	25	50	2 Hrs	1
WP-111 A/ WP-112	Workshop Practices - I (For CSE,All ECE, EE) / Workshop Practices - II (For AE, AU, BT, Civil, All Mech)	0	0	3	3	75	50	125	2 Hrs.	1.5
EC-212 / M-211 / BT-211	Digital Electronics and Circuits Lab (For CSE,All ECE, EE)/ Applied Mechanics Lab (For AE AU, Civil, All ME) / Biomolecules Lab (For BT)	0	0	2	2	25	25	50	2 Hrs	1
	Total (For All ECE, EE ,AE, AU, BT, Civil, All Mech)	**18**	**4**	**9**	**31**	**500**	**725**	**1225**		**27.5**
CS-216	Computer Programming Lab-II	0	0	4	4	25	25	50	2 Hrs	2
	Total (For CSE)	**15**	**3**	**13**	**31**	**475**	**650**	**1125**		**25.5**
CS-205	Web Programming through PHP & HTML*	3	1	0	4	50	100	150	3 Hrs	4
CS-215	Web Programming through PHP & HTML Lab*	0	0	2	2	25	25	50	2 Hrs	1
	Total (For CSE-IBM Programmes)	**18**	**4**	**15**	**37**	**550**	**775**	**1325**		**30.5**

Additional courses only for all programmes of B.Tech. Computer Science & Engineering.

**** Classes will be conducted in a batch size of 30 students and external evaluation will be conducted by a duly constituted committee of internal examiners through a viva-voce examination / practical exercises during the end-semester practical examinations.**

***** Additional course only for the programme of B.Tech. Electronics & Communication Engineering with Specialisation in IOT.**

 # 01 extra credit for Field Visits. The breakup of total 50 internal marks includes 20 marks for sessional tests, 5 marks for attendance and remaining 25 marks for Field Work & Report Writing / Model Making.

Workshop Practices Detail		
WP-111A	Workshop Practices- I	Electrical, Electronics, Computer H/W Shop
WP-112	Workshop Practices - II	Machine, Fitting & Sheet Metal, Welding

[#] 01 extra credit for Field Visits. The breakup of total 50 internal marks includes 20 marks for sessional tests, 5marks for attendance and remaining 25 marks for Field Work & Report Writing / Model Making.

SEMESTER-III									
SUBJECT CODE	**COURSE**	**PERIODS/WEEK**				**MARKS**			**CREDITS**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**	
M-302A	Thermal Engineering- I	3	1	0	4	50	100	150	4
M-303A	Manufacturing Technology-I	4	0	0	4	50	100	150	4
M-304A	Fluid Mechanics	3	1	0	4	50	100	150	4
M-403A	Strength of Materials	3	1	0	4	50	100	150	4
M-308	Metrology	4	0	0	4	50	100	150	4
M-311	Fluid Mechanics lab	0	0	2	2	25	25	50	1
M-312	Strength of Materials Lab	0	0	2	2	25	25	50	1
M-313A	Computer Aided Drafting Lab	0	0	2	2	50	50	100	1
M-317	Metrology Lab	0	0	2	2	25	25	50	1
M-300	Introduction to Research	0	1	0	1	50	0	50	1
HM403B	Quantitative Aptitude and Personality Development-I	3	0	0	3	50	50	100	3
	Total	**20**	**4**	**8**	**32**	**475**	**675**	**1150**	**28**
SUBJECT CODE	**COURSE**	**PERIODS/WEEK**				**MARKS**			**CREDITS**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**	
M-419	Applied Thermodynamics	3	1	0	4	50	100	150	4
M-404A	Manufacturing Technology-II	4	0	0	4	50	100	150	4
M-405A	Kinematics of Machines	3	1	0	4	50	100	150	4
M-402A	Fluid Machines & Turbomachinery	3	1	0	4	50	100	150	4
CS-405	Cyber Security	2	0	0	2	25	50	75	2
M-412	Fluid Machines and Turbomachine Lab	0	0	2	2	25	25	50	1
M-415A	Thermal Engineering lab	0	0	2	2	25	25	50	1
M-417	Advanced CAD Lab	0	0	2	2	50	50	100	1
WP-113	Workshop Practice - III	0	0	2	2	25	25	50	1
M-400	Technical Seminar-I	0	1	0	1	50	-	50	1

MA-302	Mathematics-III	3	0	0	3	50	50	100	3
HM-404	Holistic Wellness & Life Skills-II	1	0	0	1	50	50	100	1
	Total	**18**	**4**	**6**	**31**	**500**	**650**	**1175**	**27**

SEMESTER-V

SUBJECT CODE	COURSE	PERIODS/WEEK				MARKS			CREDITS
		L	T	P	TOTAL	INT	EXT	TOTAL	
M-501B	Industrial Engineering	4	0	0	4	50	100	150	4
M-502A	Dynamics of Machines	3	1	0	4	50	100	150	4
M-504B	Production Engineering	4	0	0	4	50	100	150	4
M-508	Machine Design-I	3	2	0	5	50	100	150	5
M-602	CAD/CAM	3	1	0	4	50	100	150	4
	Generic Elective-I	2	0	0	2	50	50	100	2
M-514	Theory of Machines Lab	0	0	2	2	25	25	50	1
M-519	Workshop Technology Lab	0	0	2	2	25	25	50	1
M-517	CIM Lab	0	0	2	2	25	25	50	1
M-500	Technical Seminar-II	0	1	0	1	50	-	50	1
HM-505A	Quantitative Aptitude & Personality Development-II	2	0	0	2	50	50	100	2
	Total	**21**	**5**	**6**	**32**	**475**	**675**	**1150**	**29**

SEMESTER-VI

SUBJECT CODE	COURSE	PERIODS/WEEK				MARKS			CREDITS
		L	T	P	TOTAL	INT	EXT	TOTAL	
M-601A	Operations Research	3	1	0	4	50	100	150	4
M-604	Heat Transfer	3	1	0	4	50	100	150	4
M-607	Machine Design-II	3	2	0	5	50	100	150	5
	Departmental Elective-I	4	0	0	4	50	100	150	4
	Departmental Elective-II	4	0	0	4	50	100	150	4
	Generic Elective-II	2	0	0	2	50	50	100	2
M-600	Project Phase-I	0	0	2	2	50	0	50	1
CS-610	Business Processes	2	0	0	2	25	50	75	2
M-512A	Simulation Lab	0	0	2	2	25	25	50	1
M-612	Heat Transfer Lab	0	0	2	2	25	25	50	1
HM-603A	Quantitative Aptitude & Personality Development-III	2	0	0	2	50	50	100	2
HM-604	Holistic Wellness & Life Skills-III	1	0	0	1	50	50	100	1
	Total	**24**	**4**	**6**	**34**	**525**	**750**	**1275**	**31**

SEMESTER-VII

SUBJECT CODE	COURSE	PERIODS/WEEK				MARKS			CREDITS
		L	T	P	TOTAL	INT	EXT	TOTAL	
M-821A	Refrigeration & Air-conditioning	4	0	0	4	50	100	150	4
	Departmental Elective-III (Subject - I)	4	0	0	4	50	100	150	4
	Departmental Elective-IV (Subject - II)	4	0	0	4	50	100	150	4
	Open Elective-I	3	0	0	3	50	100	150	3
M-518	Refrigeration & Air Conditioning Lab	0	0	2	2	25	25	50	1
M-750	Colloquium	0	2	0	2	50	0	50	2
M-800A	Industrial Training	10 Weeks				200	100	300	8
	Total	**15**	**2**	**2**	**19**	**475**	**525**	**1000**	**26**

SEMESTER-VIII

SUBJECT CODE	COURSE	PERIODS/WEEK				MARKS			CREDITS
		L	T	P	TOTAL	INT	EXT	TOTAL	
M-850	Project Phase-II/Industrial Project	**0**	**0**	**16**	**16**	250	150	400	8
	Departmental Elective-V	4	0	0	4	50	100	150	4
	Departmental Elective-VI	4	0	0	4	50	100	150	4
	Open Elective-II	4	0	0	4	50	100	150	4
	Open Elective-III	0	0	2	2	25	25	50	1
	Total	**12**	**0**	**18**	**30**	**425**	**475**	**900**	**21**
	Total	**112**	**20**	**46**	**177**	**2875**	**3775**	**6650**	**162**
						Total Credits-8 Semesters			**162**

ELECTIVES

SPECIALIZATION: THERMAL ENGINEERING		
	Stream I	**Stream II**
Departmental Elective I	M-621: IC Engines and Gas Turbines	M-623: Non-conventional Energy sources
Departmental Elective II	M-624: Automobile Engineering	M-625: Energy Management
Departmental Elective III	M-626: Solar Energy & its Application	M-823: Biochemical Engineering
Departmental Elective IV	M-824: Alternative Fuels & Advances in IC Engines	M-825: Heat Exchangers
Departmental Elective V	M-724: Heating, Ventilation & Air-Conditioning	M-822: Nuclear Power Engineering
Departmental Elective VI	M-622: Power Plant Engineering	M-826: Hydraulic & Pneumatic Systems

SPECIALIZATION: MANUFACTURING

Departmental Elective I	M-631: Introduction to Robotics	M-632: Surface Finishing Technology
Departmental Elective II	M-634: Mechatronics	M-635:Tool Engineering
Departmental Elective III	M-831: Computer Integrated Manufacturing	M-832: Powder Metallurgy
Departmental Elective IV	M-834: Rapid Prototyping	M-835A: Modern Machining Methods
Departmental Elective V	M-836: Engineering Economics And Cost Analysis	M-633: Production & operation Management
Departmental Elective VI	M-636: Material Management	M-833: Material Requirement Planning
SPECIALIZATION: DESIGN		
Departmental Elective I	M-641: Tool Design	M-642: Fracture & Fatigue
Departmental Elective II	M-647: Advanced Strength of Materials	M-645: F.E.M. in Engineering Mechanics
Departmental Elective III	M-843: Computational Fluid Dynamics	M-842: Vibration Analysis
Departmental Elective IV	M-643: Applied Hydraulic Engineering	M-845: Composite Materials
Departmental Elective V	M-846: Tribology	M-644: Design of Jigs, Fixtures & Press tools
Departmental Elective VI	M-844: Computer Aided Engineering	M-841: Design of Machine Tools

OPEN ELECTIVE-I	**OPEN ELECTIVE-II**
EC-401:Microprocessor and Interfacing	HM-821:Marketing Management
CS-801:Artificial Intelligence	HM-623:Total Quality Management
CS-305:Data Base Management System	HM-822:Human Resource Management
CS-503: Component Based Programming Technology	EE-302:Electrical Machines-I
IT-721:Management Information System	IT-821 :Software Project Management
COM-O306: Entrepreneurship Development	HM-823:Project Management

OPEN ELECTIVE - III
EE-316: Measurement & Instrumentation Lab
M-AU121: Automobile Engineering Lab
AE-517A: Computational Fluid Dynamics Lab
C-513: Structural Lab
EE-312: Electrical Machines Lab

ELECTIVE-G-1	**ELECTIVE-G-II**
HM-506: FRENCH-I	HM-606: FRENCH-II
HM-507: GERMAN-I	HM-607: GERMAN-II
HM-508: SPANISH-I	HM-608: SPANISH-II
HM-509: JAPANESE-I	HM-609: JAPANESE-II

B.Arch - Study Scheme

FIRST(1st) SEMESTER

FIRST YEAR B. ARCH

S. N.	Subject Code & Subject Title	L	S/P	T	Total Teaching Hours in Week	Credit	Internals				Externals		Total	Mode and Duration of Examination
							S-I (6)	S-II (12)	ATT(16)	ASS	Exam	Viva		
1.	**AR - 101** Architectural Design-I	---	8	---	8	8	40	40	40	80	40	60	**300**	Practical Examination& Viva Voce
							200				**100**			
2.	**AR -102** Building Materials & Construction-I	---	4	---	4	4	20	20	30	30	20	30	**150**	Practical Examination& Viva Voce
							100				**50**			
3.	**AR - 103** Architectural Drawing-I	---	4	---	4	4	20	20	30	30	20	30	**150**	Practical Examination& Viva Voce
							100				**50**			
4.	**AR - 104** Architectural Graphics & Model Making-I	---	4	---	4	4	20	20	30	30	20	30	**150**	Practical Examination& Viva Voce
							100				**50**			
5.	**AR - 105** Structural Design-I	2	---	---	2	2	10	10	05	05	**70**		**100**	3 Hours Theory Examination
							30							
6.	**AR - 106** Workshop-I	---	2	---	2	2	10	10	20	20	20	20	**100**	Practical Examination&
							60				**40**			

															Viva Voce
7.	**AR - 107** Appreciation of Art & Architecture	---	2	---	2	2	10	10	20	20	20	20	**100**	Practical Examination& Viva Voce
							60				**40**			
8.	**AR - 108** Introduction to Computer-I	1	1	---	2	2	10	10	20	20	10	30	**100**	Practical Examination& Viva Voce
							60				**40**			
9.	**AR - 109** Communication Skills	2	---	---	2	2	10	10	05	05	**70**		**100**	3 Hours Theory Examination
							30							
10	**CH - 202A** Environmental Studies& Disaster Management	3	---	1	4	4	10	10	05	25	**100**		**150**	3 Hours Theory Examination
							50							
					34	34	790				610		**1400**	

SECOND (2nd) SEMESTER

FIRST YEAR B. ARCH

S. N.	Subject Code& Subject Title	L	S/P	T	Total Teaching Hours in Week	Credit	Internals				Externals		Total	Mode and Duration of Examination
							S-I (6)	S-II (12)	ATT(16)	ASS	Exam	Viva		
1.	**AR - 201** Architectural Design – II	---	9	---	9	9	40	40	40	80	40	60	**300**	Practical Examination & Viva Voce
							200				**100**			
2.	**AR - 202** Building Materials & Construction – II	---	5	---	5	5	20	20	30	30	20	30	**150**	Practical Examination & Viva Voce
							100				**50**			
3.	**AR - 203** Architectural Drawing – II	---	4	---	4	4	20	20	30	30	20	30	**150**	Practical Examination & Viva Voce
							100				**50**			
4.	**AR - 204** Architectural Graphics – II	---	3	---	3	3	20	20	30	30	20	30	**150**	Practical Examination & Viva Voce
							100				**50**			
5.	**AR - 205** Structural Design –II	2	---	---	2	2	10	10	05	05	**70**		**100**	3 Hours Theory Examination
							30							
6.	**AR - 206**	--	3	--	3	3	10	10	20	2	10	30		Practical Examination

	Workshop &Model Making-II	-		-						0			**100**	& Viva Voce
							60				**40**			
7.	**AR - 207** Sociology and Psychology of Architecture	2	-	---	2	2	10	10	05	05	**70**		**100**	3 Hours Theory Examination
							30							
8.	**AR - 208** Introduction to Computer - II	---	2	---	2	2	10	10	10	20	20	30	**100**	Practical Examination & Viva Voce
							50				**50**			
9.	**AR - 209** Climatology	3	1	---	4	4	10	10	05	05	20P	50T	**100**	3 Hours Theory Examination
							30				**70**			
	Total				34	34	700				550		**1250**	

THIRD (3rd) SEMESTER

SECOND YEAR B. ARCH

S. N.	Subject Code& Subject Title	L	S/P	T	Total Teaching Hours in Week	Credit	Internals				Externals		Total	Mode and Duration of Examination
							S-I (6)	S-II (12)	ATT(16)	ASS	Exam	Viva		
1.	**AR -301** Architectural Design –III	---	9	---	9	9	40	40	40	80	40	60	**300**	Practical Examination& Viva Voce
							200				**100**			
2.	**AR - 302** Building Materials & Construction – III	---	5	---	5	5	20	20	30	30	20	30	**150**	Practical Examination& Viva Voce
							100				**50**			
3.	**AR - 303** Architectural Graphics - III	---	4	---	4	4	20	20	30	30	20	30	**150**	Practical Examination& Viva Voce
							100				**50**			
4.	**AR - 304** History of Architecture - I	2	---	---	2	2	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
5.	**AR - 305** Structural Design –III	2	---	---	2	2	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
6.	**AR - 306** Surveying &	1	---	1	2	2	10	10	10	10	20P	40T	**100**	3 Hours Theory Examination
							40				**60**			

	Leveling												
7.	**AR - 307** Theories in Architecture& Design - I	2	---	---	2	2	10	10	10	10	**40**	**60**	**100**	3 Hours Theory Examination
8.	**AR - 308** Building Services - I (Water Supply & Sanitation)	2	---	---	2	2	10	10	10	10	**40**	**60**	**100**	3 Hours Theory Examination
	Total				28	28	600					500	**1100**	

FOURTH(4th) SEMESTER

SECOND YEAR B. ARCH

S. N.	Subject Code& Subject Title	L	S/P	T	Total Teaching Hours in Week	Credit	Internals				External		Total	Mode and Duration of Examination
							S-I (6)	S-II (12)	ATT(16)	ASS	Exam	Viva		
1.	**AR -401** Architectural Design –IV	---	9	---	9	9	40	40	40	80	40	60	**300**	Practical Examination& Viva Voce
							200				**100**			
2.	**AR - 402** Building Materials &	---	5	---	5	5	20	20	30	30	20	30	**150**	Practical Examination& Viva Voce
							100				**50**			

	Construction - IV												
3.	**AR - 403** Computer Application (CAD) - I	---	4	---	4	4	20	20	20	40	20	30	**150**	Practical Examination& Viva Voce
							100				**50**			
4.	**AR -404** History of Architecture - II	2	---	---	2	2	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
5.	**AR - 405** Structural Design –IV	2	---	---	2	2	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
6.	**AR - 406** Building Services - II (Electrical Services & Illumination)	2	---	---	2	2	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
7.	**AR - 407** Theories in Architecture & Design-II	2	---	---	2	2	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
8.	**AR - 408** Vernacular Architecture	2	---	---	2	2	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
	Total				28	28	600				500		**1100**	

FIFTH (5th) SEMESTER

THIRD YEAR B. ARCH

S. N.	Subject Code& Subject Title	L	S/P	T	Total Teaching Hours in Week	Credit	Internals				Externals		Total	Mode and Duration of Examination
							S-I (6)	S-II (12)	ATT(16)	ASS	Exam	Viva		
1.	**AR - 501** Architectural Design –V	---	9	---	9	9	40	40	40	80	40	60	**300**	Practical Examination& Viva Voce
							200				**100**			
2.	**AR - 502** Building Materials & Construction - V	---	5	---	5	5	20	20	30	30	20	30	**150**	Practical Examination& Viva Voce
							100				**50**			
3.	**AR - 503** Computer Application (CAD) – II	---	3	---	3	3	10	10	10	20	20	30	**100**	Practical Examination& Viva VoceExamination
							50				**50**			
4.	**AR - 504** History of Architecture - III	3	---	---	3	3	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
5.	**AR - 505** Structural Design –V	3	---	**---**	3	3	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
6.	**AR - 506** Building	3	---	---	3	3	10	10	10	10				3 Hours Theory

	Economics & Technologies - I						**40**				**60**	**100**	Examination
7.	**AR - 507** Building Services –III (Lighting & Acoustics)	3	---	---	3	3	10	10	10	10	**60**	**100**	3 Hours Theory Examination
							40						
8.	**AR - 508** Landscape Architecture - I	3	---	---	3	3	10	10	10	10	**60**	**100**	3 Hours Theory Examination
							40						
	Total				32	32	550				500	**1050**	

SIXTH (6th) SEMESTER

THIRD YEAR B. ARCH

S. N.	Subject Code& Subject Title	L	S/P	T	Total Teaching Hours in Week	Credit	Internals				Externals		Total	Mode and Duration of Examination
							S-I (6)	S-II (12)	ATT(16)	ASS	Exam	Viva		
1.	**AR - 601** Architectural Design-VI	---	9	---	9	9	40	40	40	80	40	60	**300**	Practical Examination & Viva Voce
							200				**100**			
2.	**AR - 602** Building	---	5	---	5	5	20	20	30	30	20	30		Practical Examination &

	Materials & Construction -VI						**100**				**50**	**150**	Viva Voce
3.	**AR - 603** Estimating Costing and Specifications	3	---	---	3	3	10	10	10	10 **40**	**60**	**100**	3 Hours Theory Examination
4.	**AR - 604** History of Architecture-IV	3	---	---	3	3	10	10	10	10 **40**	**60**	**100**	3 Hours Theory Examination
5.	**AR - 605** Structural Design-VI	3	---	---	3	3	10	10	10	10 **40**	**60**	**100**	3 Hours Theory Examination
6.	**AR - 606** Architectural Legislation	3	---	---	3	3	10	10	10	10 **40**	**60**	**100**	3 Hours Theory Examination
7.	**AR - 607** Green and Intelligent Buildings	3	---	---	3	3	10	10	10	10 **40**	**60**	**100**	3 Hours Theory Examination
8.	**AR - 608** Building Services - IV (Mechanical Systems/Services and HVAC)	3	---	---	3	3	10	10	10	10 **40**	**60**	**100**	3 Hours Theory Examination
	Total				32	32	540				510	**1050**	

SEVENTH (7th) SEMESTER

FOURTH YEAR B. ARCH

S. N.	Subject Code& Subject Title	L	S/P	T	Total Teaching Hours in Week	Credit	Internals				External		Total	Mode and Duration of Examination
							S-I (6)	S-II (12)	ATT(16)	ASS	Exam	Viva		
1.	**AR -701** Architectural Design – VII	---	9	---	9	9	40	40	40	80	40	60	**300**	Practical Examination & Viva Voce
							200				**100**			
2.	**AR - 702** Building Materials & Construction - VII	---	5	---	5	5	20	20	30	30	20	30	**150**	Practical Examination & Viva Voce
							100				**50**			
3.	**AR -703** Urban Design	3	---	---	3	3	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
4.	**AR -704** Traffic and Transportation	3	---	---	3	3	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
5.	**AR -705** Structural Design – Project	---	3	---	3	3	15	15	10	10	**50**		**100**	Practical Examination & Viva Voce
							50							
6.	**AR 706** Interior	3	---	---	3	3	10	10	10	10	**40**	**20**		6 Hours Practical

	Design						**40**				**60**	**100**	examination
7.	**AR -707** Housing for Urban Poor	3	---	---	3	3	10	10	10	10 **40**	**60**	**100**	3 Hours Theory Examination
8.	Elective – I (**Any One**) ***AR-708**-Smart Cities ***AR-709**-Hill Architecture ***AR-710**-Tall Buildings	3	---	---	3	3	10	10	10	10 **40**	**60**	**100**	3 Hours Theory Examination
	Total				32	32	550				500	**1050**	

EIGHT (8th) SEMESTER (Practical Training)

FOURTH YEAR B. ARCH

S. N.	**Subject Code Subject Title**	**Nature of Course**	**Credits**	**Teaching Hours per Week**	**Marks**			**Mode and Duration of Examination**
					Int.	Ext.	Total	
1	**AR –801** Professional Training	Studio	32	One Semester 16 WeeksPractical Training	400	700	1100	Practical Portfolio & Viva Voce
	Total		32		400	700	**1100**	

NINTH (9th) SEMESTER

FIFTH YEAR B. ARCH

S. N	Subject Code&	L	S/ P	T	Total Teaching Hours	Credit	Internals	External	Total	Mode and Duration of

.	Subject Title				in Week		S-I (6)	S-II (12)	ATT(16)	ASS	Exam	Viva		Examination
1.	**AR - 901** Architectural Design - IX	---	12	---	12	12	50	50	50	200	50	100	**500**	Practical Examination& Viva Voce
							350				**150**			
2.	**AR - 902** Advanced Building Construction - IX	---	5	---	5	5	20	20	30	30	**30**	**20**	**150**	Practical Examination& Viva Voce
							100				**50**			
3.	**AR - 903** Research Methodology (Dissertation)	3	---	---	3	3	10	10	10	10	40	20	**100**	PracticalExamination& Viva Voce
							40				**60**			
4.	**AR - 904** Town Planning	4	---	---	4	4	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
5.	**AR - 905** Disaster Management	2	---	**---**	2	2	5	5	5	5	**30**		**50**	3 Hours Theory Examination
							20							
6.	Elective –II (**Any One**) ***AR-906**- Architecture Conservation * **AR-907**- Building Valuation * **AR-908**- Architecture Journalism	3	---	---	3	3	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
7.	Elective – III(**Any One**) ***AR-909**- Real Estate Management ***AR-910**- Advance	3	---	---	3	3	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							

	Interior Design * **AR-911**-Architecture Photography									
	Total				32	32	630	470	**1100**	

- **N.B:-**The Electives are changeable as per the norms of Council of Architecture of minimum standards of Architecture.

TENTH (10th) SEMESTER

FIFTH YEAR B. ARCH

S.N.	Subject Code& Subject Title	L	S/P	T	Total Teaching Hours in Week	Credit	Internals				Externals		Total	Mode and Duration of Examination
							Stage I	Stage II	Stage III	Stage IV	Exam	Viva		
1.	**AR -1001** Architectural Thesis	---	26	---	26	26	150	150	150	150	150	150	**900**	Practical Examination & Viva Voce
							600				**300**			
2.	**AR - 1002** Project Management	3	---	---	3	3	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
3.	**AR - 1003** Professional Practice	3	---	---	3	3	10	10	10	10	**60**		**100**	3 Hours Theory Examination
							40							
	Total				32	32	680				420		**1100**	

- Academic Calendar of the University

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

ACADEMIC CALENDAR FOR ODD SEMESTER FOR FIRST YEAR ONLY

Sr.No.	Activity	From	To	Remarks

1	**Start of Classes for first year**	**01.10.2020**		
1.1	Forwarding of Roll List to Depts. By Registrar Office	25.09.2020		
1.2	Preaparation and submission of Teaching Load to Asso. Dean Acad.	24.09.2020		
1.3	Submission of list of Mentors and Mentees to Asso. Dean Acad.	25.09.2020		
1.4	Preaparation of the Time Table and creation of Teams/Groups on MS Teams	28.09.2020		
1.5	Uploading of the Time Table and Teaching plan on ERP	29.09.2020		
1.6	Information to all the students by respective HoDs through mentors	29.09.2020		
2	**First Sessional Tests for first year**	**05.12.2020**	**12.12.2020**	Mode of Conduct shall be notified as per conditions
2.1	Date sheet/Schedule to be notified by respective departments on or before	27.11.2020		
2.2	Completion of Evaluation and posting of awards on EMS	14.12.2020	16.12.2020	
3	**Winter Break**	**25.12.2020**	**03.01.2021**	
4	**Second Sessional Tests for first year**	**30.01.2021**	**06.02.2021**	Mode of Conduct shall be notified as per conditions
4.1	Date sheet/Schedule to be notified by respective departments on or before	23.01.2021		
4.2	Completion of Evaluation and posting of awards on EMS	08.02.2021	10.02.2021.	
5	**End of Semester Classes**	**12.02.2021**		
6	**List of Eligible Students on the basis of required min. attendance on or before**	**16.02.2021**		
7	**Submission of Continuous Assessment/Internal Marks to CoE on or before**	**16.02.2021**	**19.02.2021**	
8	**End Semester Practical Examination for first year**	**17.02.2021**	**22.02.2021**	Mode of Conduct shall be notified as per conditions
8.1	Date sheet/Schedule to be notified by respective departments on or before	**12.02.2021**		
8.2	Submission of awards of practicals to CoE on or before	**25.02.2021**		
9	Course Feedback Survey regarding Course Outcome Attainment	**08.02.2021**	**11.02.2021**	
10	**End Semester Theory Examination for first year**	**26.02.2021**	**13.03.2021**	Mode of Conduct shall be notified as per conditions
10.1	Date sheet/Schedule to be notified by CoE on or before	17.02.2021		
10.2	Completion of Evaluation and submission of marks to CoE on or before	20.03.2021		
10..3	Showing of Answer Sheets of End Semester Examinaion	22.03.2021	23.03.2021	

10.4	Declarion of Results of Semesters Examination on or before	31.03.2021	
11	Submission of COMPLETE Course Files to respective HoD with Course Outcome Attainment Computaion and Analysis on or before	**05.04.2021**	
12	Start of Even Semester (II Semester)	**15.03.2020**	
12.1	Notification of Academic Calendar for II Semester	**26.02.2021**	
12.2	Registration of Courses for II Sem by students	08.03.2021	10.03.2021
12.3	Approval of Courses by HoD for II Sem	11.03.2021	12.03.2021

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AN

ACADEMIC CALENDAR FOR 4th and 6th SEMESTER Only

Sr.No.	Activity	From	To	Remarks
1	**Start of Classes**	**21.12.2020**		
1.1	Compilation of list of courses to be offered by each depatment as open electives	03.12.2020		
1.2	Preparation of Teaching Load including open electives	04.12.2020		
1.3	Preaparation of the Time Table	04.12.2020		
1.4	Course Tagging and upload of Time table on ERP	04.12.2020	14.12.2020	
1.5	Uploading of the Teaching plan on ERP	11-12.2020		
1.6	Registration of students on ERP	14.12.2020	17.12.2020	
1.7	Approval of Student Registration on ERP by HoD	18.12.2020	19.12.2020	
2	**First Sessional Tests**	**15.02.2021**	**20.02.2021**	Mode of Conduct shall be notified as per conditions
2.1	Date sheet/Schedule to be notified by respective departments on or before	08.02.2021		
2.2	Completion of Evaluation and posting of awards on ERP	**27.02.2021**		
3	**Second Sessional Tests**	**12.04.2021**	**17.04.2021**	Mode of Conduct shall be notified as per conditions
3.1	Date sheet/Schedule to be notified by respective departments on or before	**05.04.2021**		

3.2	Completion of Evaluation and posting of awards on ERP	20.04.2021		
4	List of Eligible Students on the basis of required min. attendance on or before	20.04.2021		
5	Submission of Continuous Assessment/Internal Marks to CoE on or before	30.04.2021		
5.1	Last day of Instructions.	30.04.2021		
6	**End Semester Practical Examination**	**23.04.2021**	**29.04.2021**	Mode of Conduct shall be notified as per conditions
6.1	Date sheet/Schedule to be notified by respective departments on or before	17.04.2021		
6.2	Completion of Evaluation and submission of marks to CoE on or before	03.05.2021		
7	Course Feedback Survey regarding Course Outcome Attainment	26.04.2021	30.04.2021	
8	**End Semester Theory Examination**	**08.05.2021**	**22.05.2021**	Mode of Conduct shall be notified as per conditions
8.1	Date sheet/Schedule to be notified by CoE on or before	01.05.2021		
8.2	Completion of Evaluation and submission of marks to CoE on or before	26.05.2021		
8.3	Declarion of Results of Semesters Examination on or before	02.06.2021		
9	Submission of COMPLETE Course Files to respective HoD with Course Outcome Attainment Computaion and Analysis on or before	10.06.2021		

Note:

A. The internships supposed to be conducted after 2nd and/or 4th semester, can be conducted from 14.12.2020(in parallel after the regular online class timings) in either of the following four ways and shall be complete by 31st Jan 2021(Prior approval of the action plan is required in either of case by office of the PVC academics).

1. Online Courses/workshop offered by Department HoDs.
2. Online Courses offered by Coursera/Edx/Swayam/NPTEL/other Govt. Agencie.
3. Online Internships through Internshlala and other agencies including Govt and Non Govt. Departments, as recommended by HoDs.
4. Students can select a project under the supervision of faculty/industrial mentor and results are published in a Journal/Book indexed in Scopus/WoS/PubMed

B. MCA/BSc.(IT), Sixth semester students can opt for Internship based semester or course based semester. The HoD FCA is required to share the information about students opting for courses/internship, with the ofice of dean academics by 10 Jan 2021

C. Respective Hod will ensure that the complete documentation about course/certification/internship is maintained for each student as per policy.

D. Credit Scheme for Internship

1. Two week of duration for Internship = 1 Credit
2. Credit to be counted only after the successful completion of Course/Internship.

E. Student wise details of internships to be submitted in the office of CRC within 15 Days of evaluation.

MANAV RACHNA INTERNATIONAL INSTITUTE OF RESEARCH AND STUDIES

ACADEMIC CALENDAR FOR EIGHTH/FINAL SEMESTER

Sr.No.	Activity	From	To	Remarks
1	**Start of Classes**	**21.12.2020**		
1.1	Compilation of list of courses to be offered by each depatment as open electives	03.12.2020		
1.2	Preparation of Teaching Load including open electives	04.12.2020		
1.3	Preaparation of the Time Table	04.12.2020		
1.4	Course Tagging and upload of Time table on ERP	04.12.2020	14.12.2020	
1.5	Uploading of the Teaching plan on ERP	11-12.2020		
1.6	Registration of students on ERP	14.12.2020	17.12.2020	
1.7	Approval of Student Registration on ERP by HoD	18.12.2020	19.12.2020	
1.8	Approval of students' registration on ERP	**21.12.2020**		
2	**Sessional**	**28.01.2021**	**30.01.2021**	Mode of Conduct shall be notified as per conditions
3	**Internship/ Project work/ Early Joining**	01.02.2021	22.04.2021	
4.1	**End Semester Practical Examination**	**23.04.2021**	**29.04.2021**	
4.2	Date sheet/Schedule to be notified by respective departments on or before	17.04.2021		
4.3	Completion of Evaluation and submission of marks to CoE on or before	03.05.2021		
4.4	Course Feedback Survey regarding Course Outcome Attainment	26.04.2021	30.04.2021	
4.5	Last Day of Instructions	**30.04.2021**		
5	**End Semester Theory Examination**	**08.05.2021**	**22.05.2021**	
5.1	Date sheet/Schedule to be notified by CoE on or before	01.05.2021		
5.2	Completion of Evaluation and submission of marks to CoE on or before	26.05.2021		
5.3	Declarion of Results of Semesters Examination on or before	02.06.2021		Mode of Conduct shall be notified as per conditions

6	Submission of COMPLETE Course Files to respective HoD with Course Outcome Attainment Computaion and Analysis on or before	10.06.2021	

- Academic Time Table with the name of the Faculty members handling the Course
- Teaching Load of each Faculty
- Internal Continuous Evaluation System in place : Yes
- Student's assessment of Faculty, System in place : Yes (through Student feedback)
- For each Post Graduate Courses give the following:
    - **M.Tech**

SCHEME - M. Tech Biotechnology (2018-2020)

Semester I

Sr. No.	Category	Course Code	Course Title	L	T	P	Credits	Marks			Duration of Exam
								Internal	External	Total	
1	Program Core 1	PC-BT-M-101	Genetic Engineering	3	0	0	3	50	100	150	3 hrs
2	Program Core 2	PC-BT-M-102	Applied Bioinformatics	3	0	0	3	50	100	150	3 hrs
3	Program Elective-I	PE-BT-M-121	Food Microbiology	3	0	0	3	50	100	150	3 hrs
		PE-BT-M-122	Soil Microbiology								
		PE-BT-M-123	Bioreactor Analysis and Design								
		PE-BT-M-124	Stem Cell Biology								
		PE-BT-M-125	Nanoscale Materials								
4	Program Elective-II	PE-BT-M-126	Food Process Technology	3	0	0	3	50	100	150	3 hrs
		PE-BT-M-127	Plant Protection								
		PE-BT-M-128	Upstream Bioprocessing								
		PE-BT-M-129	Stem Cells based Tissue Engineering								
		PE-BT-M-130	Biomedical Nanotechnology								
5	Program Core Lab1	LC-BT-M-111	Genetic Engineering Lab	0	0	4	2	50	50	100	3 hrs
6	Program Core Lab2	LC-BT-M-113	Applied Bioinformatics Lab	0	0	4	2	50	50	100	3 hrs
7	Internship/Seminar	COM-100	Research Methodology and IPR	2	0	0	2	50	50	100	3 hrs
8	Audit Course 1	AC-M-107	Stress Management by Yoga	2	0	0	0	-	-	-	-
Total Credits							**18**				

Semester II

Sr.	Category	Course	Course Title	L	T	P	Cre	Marks	Durat

No.		Code					dits	Internal	External	Total	ion of Exam
1	Program Core 3	PC-BT-M-201	Advanced Plant Biotechnology	3	0	0	3	50	100	150	3 hrs
2	Program Core 4	PC-BT-M-202	Advanced Environmental Biotechnology	3	0	0	3	50	100	150	3 hrs
3	Program Elective-III	PE-BT-M-221	Food Packaging Technology	3	0	0	3	50	100	150	3 hrs
		PE-BT-M-222	Seed Technology								
		PE-BT-M-223	Downstream Processing								
		PE-BT-M-224	Stem Cells based Tissue Development								
		PE-BT-M-225	Technology of Nanostructured Fabrications								
4	Program Elective-IV	PE-BT-M-226	Nutraceuticals & Functional Foods	3	0	0	3	50	100	150	3 hrs
		PE-BT-M-227	Crop Improvement								
		PE-BT-M-228	Biopharmaceutical Manufacturing								
		PE-BT-M-229	Stem Cells Therapy								
		PE-BT-M-230	Nanomaterials and Applications								
5	Program Core Lab 3	LC-BT-M-211	Advanced Plant Biotechnology Lab	0	0	4	2	50	50	100	3 hrs
6	Program Core Lab 4	LC-BT-M-213	Advanced Environmental Biotechnology Lab	0	0	4	2	50	50	100	3 hrs
7	Project	BT-M-200	Mini Project	0	0	4	2	100	50	150	3hrs
8	Audit Course 2	AC-M-101	English for Research Paper Writing	2	0	0	0	-	-	-	-
Total Credits							**18**				

Semester III

Sr. No.	Category	Course Code	Course Title	L	T	P	Credits	Marks			Duration of Exam
								Internal	External	Total	
1	Program Elective-V	PE-BT-M-321	Entrepreneurship Opportunities in Food Industry	3	0	0	3	50	100	150	3 hrs
		PE-BT-M-322	Molecular Breeding & Transgenic Plants								
		PE-BT-M-323	Advances in Fermentation Technology								
		PE-BT-M-324	Bioethics in Stem Cell Technology								
		PE-BT-M-325	Nanoscale Devices								

2	Open Elective	OE-M-101	Business Analytics	3	0	0	3	50	100	150	3 hrs
		OE-M-102	Industrial Safety								
		OE-M-103	Operations Research								
		OE-M-104	Cost Management of Engineering Projects								
		OE-M-105	Composite Materials								
		OE-M-106	Waste to Energy								
3	Dissertation	BT-M-300	Dissertation Phase - I	0	0	20	10	200	100	300	3 hrs
Total Credits							**16**				

Semester IV

Sr. No.	Category	Course Code	Course Title	L	T	P	Credits	Marks			Duration of Exam
								Internal	External	Total	
1	Dissertation	BT-M-400	Dissertation Phase - II	-	-	32	**16**	400	200	600	-

Audit Course 1 & 2	
Course Code	**Course Title**
AC-M-101	English for Research Paper Writing
AC-M-102	Disaster Management
AC-M-103	Sanskrit for Technical Knowledge
AC-M-104	Value Education
AC-M-105	Constitution of India
AC-M-106	Pedagogy Studies
AC-M-107	Stress Management by Yoga
AC-M-108	Personality Development through Life Enlightenment Skills

Total Credits	
Sem	**Credits**
I	18
II	18
III	16
IV	16
TOTAL	**68**

M.Tech.-Civil Engineering with specialisation in Construction Management

STUDY SCHEME (2017-19)

SEMESTER-I										
SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
C-MC101	Project Planning and Control	4	0	0	4	50	75	125	3Hrs	4
C-MC102	Quality Control and Safety in Construction	4	0	0	4	50	75	125	3Hrs	4
C-MC103	Construction Contract Management	4	0	0	4	50	75	125	3Hrs	4
	Elective - I	4	0	0	4	50	75	125	3Hrs	4
	Elective - II	4	0	0	4	50	75	125	3Hrs	4
C-MC112	Construction Materials Lab	0	0	2	2	50	50	100	2Hrs	1
C-MC113	Computational Laboratory-I	0	0	2	2	100	0	100	2Hrs	1
TOTAL		**20**	**0**	**4**	**24**	**400**	**425**	**825**		**22**

SEMESTER-II										
SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
C-MC201	Construction Economics and Finance	4	0	0	4	50	75	125	3Hrs	4
C-MC203	Construction Personnel Management	4	0	0	4	50	75	125	3Hrs	4
C-MC204	Resource Management and Control in Construction	4	0	0	4	50	75	125	3Hrs	4
	Elective - III	4	0	0	4	50	75	125	3Hrs	4
	Elective - IV	4	0	0	4	50	75	125	3Hrs	4
C-MC211	Advanced Material Testing Lab	0	0	2	2	50	50	100	2Hrs	1

C-MC212	Computational Lab-II	0	0	2	2	100	0	100	2Hrs	1
C-MC213	Seminar	0	2	0	2	50	0	50		1
TOTAL		**20**	**2**	**4**	**26**	**450**	**425**	**875**		**23**

STUDY SCHEME (2017-19)

SEMESTER-III										
SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
		L	**T**	**P**	**TOTAL**	**INT**	**EXT**	**TOTAL**		
C-MC301	Advanced Construction Technology	4	0	0	4	50	75	125	3Hrs	4
	Elective - V	4	0	0	4	50	75	125	3Hrs	4
C-MC311	Colloquium	0	0	2	2	50	0	50	2hrs	1
C-MC312	Project	0	0	8	8	200	100	300	3Hrs	4
C-MC300	Dissertation (Phase-I)	0	0	4	4	100	0	100	4Hrs	2
Total		**8**	**0**	**14**	**22**	**450**	**250**	**700**		**15**

The topic of dissertation is to be approved by an internal committee at commencement of 3rd Semester

SEMESTER-IV										
SUBJECT CODE	**SUBJECT**	**PERIODS/WEEK**				**MARKS**			**Duration of Exam**	**Credits**
						INT	**EXT**	**TOTAL**		
C-MC400	Dissertation (Phase II)	Minimum 20 weeks				400	200	600		20

M.Tech in Computer Engineering and Networking

SEMESTER I										
		Periods/Week				Marks				
Subject Code	Subject	L	T	P	Total	Int	Ext	Total	Duration of Exam	Credits
PC-CS-M-101	Mathematical foundations of Computer Science	3	0	0	3	50	100	150	3 hrs	3
PC-CS-M-102	Advanced Data Structures	3	0	0	3	50	100	150	3 hrs	3
	Program Elective I	3	0	0	3	50	100	150	3 hrs	3
	Program Elective II	3	0	0	3	50	100	150	3 hrs	3
COM-100	Research Methodology and IPR	2	0	0	2	50	50	100	3 hrs	2
	Audit Course	2	0	0	2	-	-	-	-	0
LC-CS-M-112	Advanced Data Structures Lab	0	0	4	4	50	50	100	3 hrs	2
	Program Elective III	0	0	4	4	50	50	100	3 hrs	2
	TOTAL	**16**	**0**	**8**	**24**	**350**	**550**	**900**		**18**

M.Tech in Computer Engineering and Networking

SEMESTER II										
		Periods/Week				Marks				
Subject Code	Subject	L	T	P	Total	Int	Ext	Total	Duration of Exam	Credits
PC-CS-M-201	Advance Algorithms	3	0	0	3	50	100	150	3 hrs	3
PC-CS-M-202	Soft Computing	3	0	0	3	50	100	150	3 hrs	3
	Program Elective IV	3	0	0	3	50	100	150	3 hrs	3
	Program Elective V	3	0	0	3	50	100	150	3 hrs	3
	Audit Course	2	0	0	2	-	-	-	-	0
LC-CS-M-211	Advance Algorithms Lab	0	0	4	4	50	50	100	3 hrs	2
	Program Elective VI (Lab Course Based on Elective)	0	0	4	4	50	50	100	3 hrs	2
CS-M-200	Mini Project with Seminar	2	0	0	2	100	50	150	3 hrs	2
	TOTAL	**16**	**0**	**8**	**24**	**400**	**550**	**950**		**18**

M.Tech in Computer Engineering and Networking

SEMESTER-III

Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
	Program Elective VII	3	0	0	3	50	100	150	3 hrs	3
	Open Elective 1	3	0	0	3	50	100	150	3 hrs	3
CS-M-350	Colloquium	0	2	0	2	50	0	50	-	0
CS-M-300	Dissertation-Phase-I/ Industrial Project	0	0	20	20	200	100	300	-	10
	TOTAL	**6**	**2**	**20**	**28**	**350**	**300**	**650**		**16**

M.Tech in Computer Engineering and Networking

Semester IV							
Subject Code	Subject	Periods/Week	Marks			Duration of Exam	Credits
			Int	Ext	Total		
CS-M-400	Dissertation-Phase-II	20 weeks (minimum)	400	200	600	3 hrs	16

Note:

The Dissertation can be taken up on any emerging areas of Computer Science or on any topic of Industrial Importance related to Computer Science and should include critical review of the literature in the area.

M. Tech. (Electronics & Communication) Specialization: Communications/VLSI & Embedded Systems (2018-2020)

Semester I

Sr. No.	Category	Course Code	Course Title	Total Number of Contact Hours/Week			Credits	Marks			Duration of Exam
				L	T	P		Int	Ext	Total	
1	Program Core 1	PC-EC-M-101	Advanced Communication Networks	3	0	0	3	50	100	150	3 Hrs
2	Program Core 2	PC-EC-M-102	Wireless and Mobile Communication	3	0	0	3	50	100	150	3 Hrs
3	Prog. Specific Elective (Elective I)	PE-EC-M-121	*Wireless Sensor Networks	3	0	0	3	50	100	150	3 Hrs
		PE-EC-M-122	*Optical Networks								
		PE-EC-M-123	**RTL Simulation and Synthesis with PLDs								

		PE-EC-M-124	**Programming Languages for Embedded Softwares								
4	Prog. Specific Elective (Elective II)	PE-EC-M-125	*Cognitive Radio	3	0	0	3	50	100	150	3 Hrs
		PE-EC-M-126	*DSP Architecture								
		PE-EC-M-127	**CAD of Digital System								
		PE-EC-M-128	**Microcontrollers and Programmable Digital Signal Processors								
5	Program Core Lab1	LC-EC-M-111	*Advanced Communication Networks Lab	0	0	4	2	50	50	100	3 Hrs
		LC-EC-M-112	**RTL Simulation and Synthesis with PLDs Lab								
6	Program Core Lab2	LC-EC-M-113	*Wireless and Mobile Communication Lab	0	0	4	2	50	50	100	3 Hrs
		LC-EC-M-114	**Microcontrollers and Programmable Digital Signal Processors Lab								
7	Internship/Seminar	COM-100	Research Methodology and IPR	2	0	0	2	50	50	100	3 Hrs
8	Audit Course 1	AC-M-107	Stress Management by Yoga	2	0	0	0	50	50	100	2 Hrs
			Total Credits				**18**				

Semester II

Sr. No.	Category	Course Code	Course Title	Total Number of Contact Hours/Week			Credits	Marks			Duration of Exam
				Lecture(L)	Tutorial(T)	Practical(P)		Int	Ext	Total	
1	Program Core 3	PC-EC-M-201	Antennas and Radiating Systems	3	0	0	3	50	100	150	3 Hrs
2	Program Core 4	PC-EC-M-202	Advanced Digital Signal	3	0	0	3	50	100	150	3 Hrs

			Processing								
3	Prog. Specific Elective (Elective III)	PE-EC-M-221	*Satellite Communication	3	0	0	3	50	100	150	3 Hrs
		PE-EC-M-222	*Internet of Things								
		PE-EC-M-223	**Analog and Digital CMOS VLSI Design								
		PE-EC-M-224	**Nano materials and Nanotechnology								
4	Prog. Specific Elective (Elective IV)	PE-EC-M-225	*Markov Chain and Queuing System	3	0	0	3	50	100	150	3 Hrs
		PE-EC-M-226	*MIMO System								
		PE-EC-M-227	**VLSI Design Verification and Testing								
		PE-EC-M-228	**Network Security and Cryptography								
5	Program Core Lab 3	LC-EC-M-211	*Antennas and Radiating Systems lab	0	0	4	2	50	50	100	3 Hrs
		LC-EC-M-212	**Analog and Digital CMOS VLSI Design Lab								
6	Program Core Lab 4	LC-EC-M-213	*Advanced Digital Signal Processing Lab	0	0	4	2	50	50	100	3 Hrs
		LC-EC-M-214	**VLSI Design Verification and Testing Lab								
7	Project	EC-M-200	Mini Project	0	0	4	2	100	50	150	3Hrs
8	Audit Course 2	AC-M-101	English for Research Paper Writing	2	0	0	0	-	-	-	-

			Total Credits				**18**				
	Note: * Communications Domain										
	****VLSI & Embedded Systems Domain**										

Semester III

Sr. No.	Category	Course Code	Course Title	Total Number of Contact Hours/Week			Credits	Marks			Duration of Exam
				Lecture(L)	Tutorial(T)	Practical(P)		Int	Ext	Total	
1	Prog. Specific Elective (Elective V)	PE-EC-M-321	*Pattern Recognition and Machine learning	3	0	0	3	50	100	150	3 Hrs
		PE-EC-M-322	*Remote Sensing								
		PE-EC-M-323	**Low power VLSI Design								
		PE-EC-M-324	**Selected Topics in Mathematics								
2	Open Elective	OE-M-101	Business Analytics	3	0	0	3	50	100	150	3 Hrs
		OE-M-102	Industrial Safety								
		OE-M-103	Operations Research								
		OE-M-104	Cost Management of Engineering Projects								
		OE-M-105	Composite Materials								
		OE-M-106	Waste to Energy								
3	Dissertation	EC-M-300	Dissertation Phase - I	0	0	20	10	200	100	300	3 Hrs
			Total Credits				**16**				

Semester IV

Sr. No.	Category	Course Code	Course Title	Total Number of Contact Hours/Week			Credits	Marks			Duration of Exam
				Lecture(L)	Tutorial(T)	Practical(P)		Int	Ext	Total	
1	Dissertation	EC-M-400	Dissertation Phase - II	-	-	32	16	400	200	600	3 Hrs
			Total Credits				**16**				

STUDY SCHEME

M.Tech in Power Electronics and Electrical Drives

SEMESTER I										
Subject Code	Subject	Periods/Week				Marks			Duration of Exam	Credits
		L	T	P	Total	Int	Ext	Total		
MA-M101	Advanced Mathematical Techniques	4	0	0	4	50	75	125	3	4
EE-M102	Advanced Power electronics	4	0	0	4	50	75	125	3	4
EE-M103	Power System Dynamics and Stability	4	0	0	4	50	75	125	3	4
EE-M104	Computer Aided Power System Analysis	4	0	0	4	50	75	125	3	4
EE-M105	Industrial Drives	4	0	0	4	50	75	125	3	4
EE-M114	Computer Aided Power System Analysis Lab	0	0	2	2	50	50	100	3	2
EE-M115	Industrial Drives Lab	0	0	2	2	50	50	100	3	2
	TOTAL	**20**	**0**	**4**	**24**	**350**	**475**	**825**		**24**
SEMESTER II										
EE-M201	Optimal Power System Operation	4	0	0	4	50	75	125	3	4
EE-M202	Intelligent techniques and Applications	4	0	0	4	50	75	125	3	4
EE-M203	Power Quality and FACTS Devices	4	0	0	4	50	75	125	3	4
EE-M205	Power Conditioning	4	0	0	4	50	75	125	3	4
	Elective-I	4	0	0	4	50	75	125	3	4
EE-M211	Optimal Power System Operation Lab	0	0	2	2	50	50	100	3	2
EE-M212	Intelligent techniques and Applications Lab	0	0	2	2	50	50	100	3	2
EE-M250	Colloquium-1	0	2	0	2	50		50		2
	TOTAL	**20**	**2**	**4**	**26**	**400**	**475**	**875**		**26**

Elective-I

Subject Code	Subject Name
EE-M221	Digital Signal Processing and its Applications
EE-M222	Modelling and Dynamics of Electrical Machines
EE-M223	Distribution System Modelling and Analysis
EE-M224	Real Time Instrumentation
EE-M225	Digital Protection and Relaying
EE-M226	Advanced Microprocessors and Micro-controller
EE-M227	Renewable Power Generation Sources

SEMESTER III									
		Periods/Week							
Subject Code	**Subject**	**L**	**T**	**P**	**Int**	**Ext**	**Total**	**Duration of Exam**	**Credits**
EE-M301	HVDC & EHVAC Transmission System	4	0	0	50	75	125	3	4
	Elective-II	4	0	0	50	75	125	3	4
EE-M360	Project	0	0	10	200	100	300	3	8
EE-M350	Colloquium-2	0	2	0	50		50		2
EE-M300	Dissertation (Phase-I)	0	0	0	100		100		4
	TOTAL	**8**	**2**	**10**	450	250	600		**22**

Elective II

EE-M321	Special Electric Machines
EE-M323	Power System Planning
EE-M324	Load and Energy Management
EE-M325	Organization and Finance in Power Sector
EE-M326	Power System Reliability

Note: The topic of dissertation to be approved by internal committee in III semester

SEMESTER IV									
		Periods/Week							
Subject Code	**Subject**	**L**	**T**	**P**	**Int**	**Ext**	**Total**	**Duration of Exam**	**Credits**
EE-M400	Dissertation(Phase-II)	16 weeks (min)			400 *	200	600		**20**

M.Tech in Mechanical Engineering – Study Scheme

First Semester

Sr. No.	Category	Code	Subject	Periods per week				Marks			Credits
				L	T	P	Total	Internal	External	Total	
1	Program Core 1	PC-IE 101	Work Study and Ergonomics	3	0	0	3	50	100	150	3
2	Program Core 2	PC-IE 102	Industrial Statistics and Forecasting	3	0	0	3	50	100	150	3
3	Program Specific Elective (Elective-I)	PE-IE 101	Management Concept and Organisation Behaviour	3	0	0	3	50	100	150	3
		PE-IE 102	Human Resource Management								
		PE-IE 103	Project Management								
4	Program Specific Elective (Elective-II)	PE-IE 106	Enterprise Resource Planning	3	0	0	3	50	100	150	3
		PE-IE 107	Supply Chain Management								
		PE-IE 108	Material Handling System								
5	Program Core Lab 1	LC-IE 111	Computational Lab (I)	0	0	4	4	50	50	100	2
6	Program Core Lab 2	LC-IE 112	Flexible Manufacturing System Lab (II)	0	0	4	4	50	50	100	2
7	Internship / Seminar	M.Tech-100	Research Methodology and IPR	2	0	0	2	50	50	100	2
8	Audit Course 1	AC-M-07	Audit Course-I	2	0	0	2	-	-	-	0
			Total	**16**	**0**	**8**	**24**	**350**	**550**	**900**	**18**

Second Semester

Sr. No.	Category	Code	Subject	Periods per week				Marks			Credits
				L	T	P	Total	Internal	External	Total	
1	Program Core 3	PC-IE 201	Inventory Management	3	0	0	3	50	100	150	3
2	Program Core 4	PC-IE 202	Operations Planning and Control	3	0	0	3	50	100	150	3
3	Program Specific Elective (Elective-III)	PE-IE 201	Flexible Manufacturing System	3	0	0	3	50	100	150	3
		PE-IE 202	Managerial								

			Accounting & Financial Control								
		PE-IE 203	Marketing Management								
4	Program Specific Elective (Elective-IV)	PE-IE 206	Quality Control Techniques	3	0	0	3	50	100	150	3
		PE-IE 207	Lean and Agile Manufacturing								
		PE-IE 208	Group Technology								
5	Program Core Lab 3	LC-IE 211	Simulation Lab (III)	0	0	4	4	50	50	100	2
6	Program Core Lab 4	LC-IE 212	Quality Control Lab (IV)	0	0	4	4	50	50	100	2
7	Project	M.Tech-200	Mini Project	0	0	4	4	50	50	100	2
8	Audit Course-II		Audit Course-II	2	0	0	2	-	-	-	0
			Total	**14**	**0**	**12**	**26**	**350**	**550**	**900**	**18**

Third Semester

Sr. No.	Category	Code	Subject	Periods per week				Marks			Credits
				L	T	P	Total	Internal	External	Total	
1	Program Specific Elective (Elective-IV)	PE-IE 301	Simulation and Modelling	3	0	0	3	50	100	150	3
		PE-IE 302	E-Commerce								
		PE-IE 303	Management Information System								
		PE-IE 304	Reliability Engineering								
2	Open Elective	OE-IE 101	Business Analytics	3	0	0	3	50	100	150	3
		OE-IE 102	Industrial Safety								
		OE-IE 103	Operations Research								
		OE-IE 104	Composite Materials								
		OE-IE 105	E-Waste								
3	Dissertation	M.Tech-300	Dissertation Phase-I / Industrial Training	0	0	20	20	200	100	300	10
			Total	**6**	**0**	**20**	**26**	**300**	**300**	**600**	**16**

Fourth Semester

Sr. No.	Category	Code	Subject	Periods per week				Marks			Credits
				L	T	P	Total	Internal	External	Total	
1	Dissertation	M.Tech-400	Dissertation-II	0	0	32	32	400	200	600	16
			Total					**400**	**200**	**600**	**16**
			Grand Total	**36**	**0**	**72**	**108**	**1400**	**1600**	**3000**	**68**

MCA - STUDY SCHEME 2018

SEMESTER-I										
Subject Code	**Subject**	**Periods/week**				**Marks**			**Duration of Exam (hrs)**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
	Mandatory Induction Program	3 Weeks								Non Credit
MCA-101A(CB)	Fundamentals of IT and Programming Techniques	3	1		4	50	100	150	3	4
MCA-103A(CB)	Programming in C	3			3	50	100	150	3	3
MCA-105A(CB)	Digital Design and Computer Organization	3	1		4	50	100	150	3	4
MCA-106(CB)	Mathematics for Computing	3	1		4	50	100	150	3	4
MCA-107(CB)	Principles of Management	3			3	50	100	150	3	3
MCA-151A(CB)	ICT Lab			4	4	50	50	100	3	2
MCA-152A(CB)	Programming in C Lab			4	4	50	50	100	3	2
MCA-153(CB)	Internet Technologies Lab			4	4	50	50	100	3	2
	Total	**15**	**03**	**12**	**30**	**400**	**650**	**1050**	**24**	**24**

Note: 1 theory lecture/hour/week= 1 credit; 2 practical hours/week=1 credit

Note: Mandatory Induction Program for students to be offered right at the start of the first year.

SEMESTER-II										
Subject Code	**Subject**	**Periods/week**				**Marks**			**Duration of Exam (hrs)**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
HM-205	Holistic Wellness and Life Skills –I		1		1	50	50	100	2	1
MCA-203A(CB)	Programming in C++	3			3	50	100	150	3	3
MCA-204A(CB)	Operating System	3	1		4	50	100	150	3	4
MCA-208(CB)	Discrete Mathematics and Finite Automata	3	1		4	50	100	150	3	4
MCA-205A(CB)	Database Systems	3			3	50	100	150	3	3
	Elective-I	2			2	25	50	75	2	2
MCA-251A(CB)	Programming in C++ Lab			4	4	50	50	100	3	2
MCA-252A(CB)	Database Systems Lab			4	4	50	50	100	3	2
MCA-253(CB)	Operating System Lab			4	4	50	50	100	3	2
Total		**14**	**3**	**12**	**29**	**425**	**650**	**1075**	**25**	**23**

Note: 1 theory lecture/hour/week= 1 credit; 2 practical hours/week=1 credit

Elective-I: Generic

Subject Code	**Subject**
HM-207	Employability Enhancement Programme I
HM-208	French Language
MCA-210(CB)	Enhancing Soft Skills & Personality
MCA-211(CB)	Educational leadership
MCA-212(CB)	Business English

SEMESTER-III										
Subject Code	**Subject**	**Periods/week**				**Marks**			**Duration of Exam (hrs)**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
MC-300	Introduction to Research		1		1	50		50		1
MCA-301A(CB)	Linear Algebra and Statistical Techniques	3	1		4	50	100	150	3	4
MCA-303A(CB)	Data Structures	3			3	50	100	150	3	3
MCA-402A(CB)	Object Oriented Programming in Java	3	1		4	50	100	150	3	4
HM - 305	Employability Enhancement Programme II	2			2	25	50	75	2	2
	Elective-II	3			3	50	100	150	3	3
	Elective-III(Lab)			4	4	50	50	100	3	2
	Elective-IV	3			3	50	100	150	3	3
MCA-351A(CB)	Data Structures Lab			2	2	50	50	100	3	1
MCA-451A(CB)	Object Oriented Programming in Java Lab			2	2	50	50	100	3	1
MCA-356(CB)	Python Programming Lab			2	2	50	50	100	3	1
Total		**17**	**3**	**10**	**30**	**525**	**750**	**1275**	**29**	**25**

Note: 1 theory lecture/hour/week= 1 credit; 2 practical hours/week=1 credit

Elective-II: Domain Centric

Subject Code	**Subject**
MCA-304A(CB)	Computer Graphics
MCA-306A(CB)	Web Applications Development using PHP
MCA-308(CB)	Multimedia and Animation

Elective-III: Domain Centric Lab

Subject Code	Subject
MCA-352A(CB)	Web Applications Development using PHP Lab
MCA-354(CB)	Computer Graphics Lab
MCA-355(CB)	Multimedia and Animation Lab

Elective-IV: Open Elective

Subject Code	Subject
MCA-001(CB)	E-Governance
COM-0306	Entrepreneurship Development
MCA-003(CB)	Digital Marketing

Note: 1. One course is to be offered from the list of courses in the Elective-II, III and IV each.

SEMESTER-IV										
Subject Code	**Subject**	**Periods/week**				**Marks**			**Duration of Exam (hrs)**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
HM-404	Holistic Wellness and Life Skills II	0	1		1	50	50	100	2	1
MC-300	Introduction to Research		1		1	50		50		1
MCA-405A(CB)	Data Communications	3	1		4	50	100	150	3	4
MCA-408(CB)	Data Mining & Warehousing	3	1		4	50	100	150	3	4
MCA-507A(CB)	Analysis & Design of Algorithm	3			3	50	100	150	3	3
	Elective-V	2			2	25	50	75	2	2
	Elective-VI	3			3	50	100	150	3	3
MCA-553A(CB)	Analysis & Design of Algorithm Lab			4	4	50	50	100	3	2
MCA-653A(CB)	Android Application Development Lab			4	4	50	50	100	3	2
MCA-655A(CB)	R Programming Lab			4	4	50	50	100	3	2
MCA-409(CB)	Vocational Training	4 Week				100		100	2	2
Total		**14**	**4**	**12**	**30**	**575**	**650**	**1225**	**27**	**26**

Note: 1 theory lecture/hour/week= 1 credit; 2 practical hours/week=1 credit

Note: Students have to undergo vocational training of 4 weeks at the end of 4th semester with internal evaluation.

Elective-V: Generic

Subject Code	**Subject**
HM-406	Employability Enhancement Programme III
HM-407	German Language
CS-610	Business Processes

Elective-VI: Domain Centric

Subject Code	**Subject**
MCA-404A(CB)	Artificial Intelligence
MCA-406A(CB)	Cloud Computing
MCA-407A(CB)	Mobile Computing
MCA-408(CB)	System Programming

Note: One course is to be offered from the list of courses in the Elective-V and VI each.
Note: 1 theory lecture/hour/week= 1 credit; 2 practical hours/week=1 credit

SEMESTER-V										
Subject Code	**Subject**	**Periods/week**				**Marks**			**Duration of Exam (hrs)**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
MC-300	Introduction to Research		1		1	100		100		1
MCA-501A(CB)	Advance Database Systems	3	1		4	50	100	150	3	4
MCA-602A(CB)	Programming in .NET	3			3	50	100	150	3	3
MCA-509(CB)	Technical Seminar	2			2	25		25		2
MCA-403A(CB)	Software Engineering & Testing	3	1		4	50	100	150	3	4
	Elective VII	3	1		4	50	100	150	3	4
	Elective VIII	3			3	50	100	150	3	3
MCA-551A(CB)	Advance Database Systems Lab			4	4	50	50	100	3	2
MCA-651A(CB)	. NET Lab			4	4	50	50	100	3	2
Total		**17**	**4**	**8**	**29**	**475**	**600**	**1075**	**21**	**25**

Note: 1 theory lecture/hour/week= 1 credit; 2 practical hours/week=1 credits

Elective-VII: Domain Centric ***Elective-VIII: Open Elective***

Subject Code	**Subject**
MCA-503A(CB)	E-Commerce Technologies

MCA-504A(CB)	Network Security and Cryptography
MCA-505A(CB)	Database Administration
MCA-506A(CB)	Big Data Analytics
MCA-508(CB)	Cyber Security

Subject Code	**Subject**
MCA-004A(CB)	Leadership and Organizational Behavior
MCA-005A(CB)	E-Tourism
MCA-006A(CB)	HR Management

SEMESTER-VI										
Subject Code	**Subject**	**Periods/week**				**Marks**			**Duration of Exam (hrs)**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
HM-604	Holistic Wellness and Life Skills -III		1		1	50	50	100	2	1
MCA-603(CB)	Advance Java	3	1		4	50	100	150	3	4
MCA-604(CB)	Software Project Management	3	1		4	50	100	150	3	4
	Elective IX	2			2	25	50	75	2	2
MCA-655(CB)	Advance Java Lab			4	4	50	50	100	3	2
MCA-656(CB)	Software Project Management Lab			4	4	50	50	100	3	2
MCA-657(CB)	Project			10	10	50	250	300	2	5
	Total	**8**	**3**	**18**	**29**	**325**	**650**	**975**	**18**	**20**

Elective-IX: Generic

Subject Code	**Subject**
HM - 609	Employability Enhancement Programme IV
CA-GE-56	Social Media Norms & Etiquette

OR

SEMESTER-VI										
Subject Code	**Subject**	**Periods/week**				**Marks**			**Duration of Exam (hrs)**	**Credits**
		L	**T**	**P**	**Total**	**Int**	**Ext**	**Total**		
MCA-652(CB)	Major Project	20-22 Week Industrial Training			-	300	600	900	-	20
	Total					**300**	**600**	**900**		**20**

Total Credit: 143

Note: Any Elective course to be offered from the above lists will be finalized by HOD, depending on the availability of the expertise as well as the faculty strength in the Department. The choice of the student for any elective will be considered but shall not be binding for the department to offer it.

- **MBA**

MBA – Dual Specialization (2018-20 onwards) Study-Scheme

Program brief- The MBA program is spread over four semesters of 16-18 weeks each. The courses covered in the first two semesters are designed to give an insight into the various functional areas of management, enhance communication skills and decision making ability. At the end of the first two terms, the students go for an industry internship or summer training with an organization spanning 8-10 weeks. In the second year, the students shall take elective / optional courses to specialize in a maximum of two functional areas. All elective packages, however, may not be offered, as this would be determined by the number (s) of students showing interest in specializing in different areas.

Study Scheme for MBA (Dual specialization) programme w.e.f. the Academic Session 2018-19

Semester/ Type of Course	**Foundation**		**Core**		**Internship/ Fieldwork**		**Generic Elective**		**Open Elective**		**Discipline-centric elective**		**TOTAL**	
	CS	CR	CS	CR	CS	CR	CS	CR	CS	CR	CS	CR	CS	CR
I	2	4	8*	24	-	-	-	-	-	-	-	-	10	27
II	2	4	8*	24	-	-	-	-	-	-	-	-	10	27
III	-	-	-	-	1	3	1	3	-	-	6	18	8	24
IV	-	-	-	-	1	3	1	3	2	6	4	12	8	24
TOTAL	**4**	**8**	**18**	**48**	**2**	**6**	**2**	**6**	**2**	**6**	**10**	**30**	**36**	**102**

CS: No. of courses

CR: No. of credits

*In addition, students undergo an audit course: Foreign Language-I in Semester I and Foreign Language-II in Semester II, with an option to choose from French, German, Spanish, Mandarin and Arabic.

Semester Wise Study Scheme

Semester I										
S. No	**Course Type**	**Course Code**	**Course**	**Hours/ Week#**				**Examination**	**Total Hours in Semester**	**Credits**
				L	**T**	**P**	**Total**			
1	Foundation	MBA-1001	Business Communication-I	2	-	-	2	Ext: 75 marks Int: 75 marks	20	2
2		MBA-1002	Management Information Systems	2	-	-	2	Ext: 75 marks Int: 75 marks	20	2
3	Core	MBA-1003	Organization Behaviour	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
4		MBA-1004	Business Environment	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
5		MBA-1005	Accounting for Managers	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
6		MBA-1006	Quantitative Techniques	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
7		MBA-1007	Managerial Economics	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
8		MBA-1008	Marketing Management-I	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
9		MBA-1009	Legal Aspects of Business	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
10		MBA-1010	Professional Competency-I: Soft Skills and Personality Enhancement	1	-	2	3	Ext: 75 marks Int: 75 marks	30	2
11	Audit course	MBA-1011	Foreign Language-I	1	-	-	1	Ext.: 100	10	-
	Internship/ Field work	-	-	-	-	-	-	-	-	-
	Generic elective	-								-
	Open elective	-								-
	Discipline-centric elective	-								-
			TOTAL	**27**	**1**	**2**	**30**		**300**	**28**

L: lecture, T: tutorial, P: practical

Semester II										
S. No	**Course Type**	**Course Code**	**Course**	**Hours/ Week#**				**Examination**	**Total Hours in Semester**	**Credits**
				L	**T**	**P**	**Total**			
1	Foundation	MBA-2001	Business Communication-II	2	-	-	2	Ext: 75 marks Int: 75 marks	20	2
2		MBA-2002	Values, Ethics and CSR	2	-	-	2	Ext: 75 marks Int: 75 marks	20	2
3		MBA-2003	Human Resource	3	-	-	3	Ext: 75 marks	30	3

			Management					Int: 75 marks		
4		MBA-2004	Operations Management	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
5		MBA-2005	Marketing Research	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
6		MBA-2006	International Business	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
7	Core	MBA-2007	Marketing Management-II	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
8		MBA-2008	Financial Management	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
9		MBA-2009	Strategic Management and Business Policy	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
10		MBA-2010	Professional Competency-II: Social Skills and General Awareness	1	-	2	3	Ext: 75 marks Int: 75 marks	30	2
11	Audit course	MBA-2011	Foreign Language-II	1	-	-	1	Ext.: 100 marks	10	-
	Internship/ Field work	-	-	-	-	-	-	-	-	-
	Generic elective	-								-
	Open elective	-								-
	Discipline-centric elective	-								-
			TOTAL	**27**	**1**	**2**	**30**		**300**	**28**

L: lecture, T: tutorial, P: practical

Semester III										
S. No	**Course Type**	**Course Code**	**Course**	**Hours/ Week#**				**Examination**	**Total Hours in Semester**	**Credits**
				L	**T**	**P**	**Total**			
	Foundation	-	-						-	-
	Core	-	-						-	-
1	Internship/ Field work	MBA-3001	Summer Internship Project*	-	-	-	-	Int: 150 marks	-	3
2	Generic elective##	MBA-GE-01	Indian Ethos and Values	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
		MBA-GE-02	Professional Competency-III: Employability Skills	2	-	2	4	Ext: 75 marks Int: 75 marks	40	
	Open elective	-								
3			Elective 1 (Track 1)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
4	Discipline-		Elective 2 (Track 1)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3

5	centric elective	-	Elective 3 (Track 1)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
6			Elective 1 (Track 2)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
7			Elective 2 (Track 2)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
8			Elective 3 (Track 2)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
9			Course of Independent Study (Track 1 or Track 2)^	1	1	2	4	Ext: 50 marks Int: 100 marks	40	3
			TOTAL**	**21**	**-**	**-**	**21**		**210**	**24**

L: lecture, T: tutorial, P: practical

* Refer to Annexure I

** Segregation into L-T-P and total hours is subject to change as per choice of courses within generic electives and specialization tracks

Students shall take up any one option from the two choices provided.

In case of all elective courses, the final decision regarding offering a course shall be taken by the institution.

Semester IV

S. No	Course Type	Course Code	Course	Hours/ Week#				Examination	Total Hours in Semester	Credits
				L	T	P	Total			
	Foundation	-	-							-
	Core	-	-							-
1	Internship/ Field work*	MBA-4001	Final Dissertation/ Project	-	-	-	-	Int: 150 marks	-	3
2	Generic elective##	MBA-GE-03	Family Business Management	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
		MBA-GE-04	Professional Competency-IV: Leadership Skills and Team Building	2	-	2	4	Ext: 75 marks Int: 75 marks	40	
3	Open elective 1##	MBA-001	Total Quality Management	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
		MBA-002	Business Analytics	3	-	-	3	Ext: 75 marks Int: 75 marks	30	
4	Open elective 2##	MBA-003	Entrepreneurship	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
		MBA-004	Project Management	3	-	-	3	Ext: 75 marks Int: 75 marks	30	
5	Discipline-centric elective	-	Elective 1 (Track 1)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
6			Elective 2 (Track 1)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
7			Elective 1 (Track 2)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
8			Elective 2 (Track 2)	3	-	-	3	Ext: 75 marks Int: 75 marks	30	3
9			Alternative Study Credit Activities (Track 1 or Track 2) ^	1	1	2	4	Ext: 50 marks Int: 100 marks	40	3
			TOTAL**	**21**	**1**	**2**	**24**		**210**	**24**

L: lecture, T: tutorial, P: practical

* Refer to Annexure III

** Segregation into L-T-P and total hours is subject to change as per choice of courses within generic electives and specialization tracks. The segregation shall be 2-0-2 for MBA-IS-3005, MBA-IS-4004 and MBA-IS-4005.

Students shall take up any one option from the two choices provided.

17. List of Research Projects/ Consultancy Works

- Number of Projects carried out, funding agency, Grant received

Sponsored Research Project details FY 2019-20

S. No:	Name of Faculty (Principal Investigator)	Name of the Funding agency	Title of the Project	Sanctioned order no.	Sanctioned date	Amount Sanctioned / Received (In Rupees)	Amount Received Final
1	Dr D K Chadha, Dr Sarita Sachdeva & Dr A Mukheerji	National Institute of Urban Affairs (NIUA),sponsored by USAID	Establishment of Wash Innovation Lab (WIL) under Innovation Hub for Urban water,Sanitation and hygiene.	Tripartite Agreement on 3rd May 2018 between MRIIRS, MCF & NIUA.	03.05.2018	2320000	454,000
2	Dr Monika Goel Dr Bindu Agarwal & Mr Karan	NSTEDB, DST, GOI	Setting up of New Gen IEDC (5 years)	EDII/DST-New Gen-iEDC/17-18/RLS-I/05	31.07.2017	28,700,000	4,750,000
3	Dr. Sarita Sachdeva, Dr. Nidhi Didwania, Dr. Abhilasha Shourie, Ms. Deepti Sadana	Indian Oil Startup Scheme (IOSUS), Ministry of Petroleum, GOI	Bioformulation- a novel ecofriendly solution against fungal pathogens in tomato	TPRE1565673375 14/04/2017	14.04.2017	17,200,000	2,916,214

4	Mr. Umesh Dutta	COGENDA	TCAD Simulation and Analysis of Si - and Hetro Junction Gate All Around (GAA) Tunnel-FET TCAD Simulation and Analysis of ultra Thin Junction less FINFET Devices. Design and Optimization of Gate All Around Si Nano wire MOSFET. Design and Analysis of SRAM using FINFET technology. In order to improve the performance of SRM cells Design and implementation of 4 bit Analog to Digital Converter using Threshold Inverter Quantization method in Symica DE Design and implementation of 4 bit Analog to Digital Converter	04/17/CDS-MRIU/01	27.03.2017	1,650,000	
5	Dr Meghna Chhabra	**ICSSR-IMPRESS 3615**	Antecedents leading to capacity building of women entrepreneurs in Delhi/NCR	IMPRESS/P1083/489/18-19/1CSSR	1-Jul-19	1,000,000	4,00,000

Consultancy Projects Details FY 2019-20

S.No.	Name of faculty (Chief Consultant)	Name of Consultancy project	Consulting/Sponsoring Agency with contact details	Revenue generated (amount in rupees)
1	Dr Sunita Bansal, Dr Anjali Gupta, Mr Aftab Alam	Porch Design at Tilyar Lake Rohtak	Haryana Tourism	16,200
2	Dr Sunita Bansal	Structural Audit of Overhead Tank situated at Tikona Park NIT Faridabad	MCF, Faridabad	2,00,000
3	Sarita Sachdeva, Abhilasha Shouri, Sadiqua Abbas	Solid Waste Management at Rakhigarhi	Indian Trust for Rural Heritage and Development (ITRHD)	5,70,000
4	Dr. Sarita Sachdeva, Dr D K Chadha, Dr A Mukheerji	Hydrogeological Survey Aquifer Monitoring in Barmer, Rajasthan of Cairn Oil and Gas Vedanta Ltd	Vedanta Cairns Oil and Gas Company, Barmer, Rajasthan	2,673,104
5	Dr D K Chadha, Dr Sarita Sachdeva, Dr A Mukherjee	In-Situ De-Salination using ISP system Installation in saline Aquifer	Maharani Innovative Paints, Prithla, Palwal	707000
6	Dr. Anita Khosla	Industrial Training on Advanced iQ-R Setup	Mitsubishi Electric India	
7	Dr. Anita Khosla	AMIE Section-B Practical Training & Evaluation Summer Session	AMIE	316800
8	Dr. Anita Khosla	AMIE Section-B Practical Training & Evaluation Winter Session	AMIE	288000

9	Dr. Devendra Vashisht	Optimization of Hydraulic boom maintenance schedule for increased productive time	Genesis Technobuild Pvt. Ltd., New Delhi	30,000
10	Dr. Mehak Sharma	Nutirition & Dietetics Solution	Various clients for Nutirition & Dietetics Solution	18,280
11	Dr Preeti Saini	Physiotherapy Solutions	Various clients for Physiotherapy Solutions	278000

- **Research Publications in last three years**

Publications in National & International Journals

Title of the paper	Name of the author	Title of the journal	Listed in
Design analysis of a retrofit system for an electric two wheeler	Devendra Vashist	SAE Technical Paper	Scopus
CFD analysis of biodiesel blends and combustion using Ansys Fluent	ShivanshuDixit,ArvindKumar, SurajKumar,NitinWaghmare, Harish C.Thakur,SabahKhan	Materials Today: Proceedings - Journal - Elsevier	Scopus(Index-1)
A review on mechanical and tribological characterization of boron carbide reinforced epoxy composite	Sunny Bhatia, Surjit Angra and Sabah Khan	Advanced Composite Materials	SCIE
Mechanical and wear properties of epoxy matrix composite reinforced with varying ratios of solid glass microspheres	Sunny Bhatia, Surjit Angra and Sabah Khan	Journal of Physics: Conference Series	Scopus
PARAMETRIC OPTIMIZATION OF EDM PROCESSES FOR ALUMINUM HYBRID METAL MATRIX COMPOSITE USING GRA-PCA APPROACH	Gurpreet Singh Matharou/ Dr. B.K. Bhuyan	International Journal of Mechanical and Production Engineering Research and Development (IJMPERD)	Scopus
A Systematic Review of Conventional and Advanced Approaches for the Control of Plant Viruses	Priyanka chauhan, Kajal Singla, Mamta Rajbhar, Anjali Singh, Nilanjan Das, Kapila Kumar,	Journal of Applied Biology and Biotechnology	WOS/ Scopus
A pharmacological review on tinospora cordifolia: a medicinal herb	Anuradha Singh,Anamika Singh, Kapila Kumar	IMJ(International Medical Journal)	SCOPUS, WOS
Analysis of therapeautic value of tinospora cordifolia	Anuradha Singh, ,Anamika Singh, Kapila Kumar	Asia pacific Jounal of Multidisciplinary Research	google scholar, ASEAN citation index
Natural Chemoprotectants For Mitigating The Side Effects of Cancer Chemotherapy	Monu, Pushpa C,. Tomar, Shilpa S. Chapadgaobakar	Ambient Science	WOS
Epidiolex: A Cannabis Derived Drug for Pain Relief.	Charu Rajpal, Akansha Kanaujia and Pushpa C. Tomar	Medicinal Plants: International Journal of Phytomedicines and Related Industries.	scopus
Medicinal Alternative For Chikungunya Cure: A Herbal Approach	Komal Arora, Pushpa C Tomar, Pritika Kumari, Anju Kumari	Journal of microbiology, biotechnology and food sciences	scopus
Decolourisation of Yamuna water by using peanut hull in packed bed reactor	Varsha Panchal, Arpita Ghosh , Pushpa C. Tomar*, Shilpa C. Chapalgaonkar	RASĀYAN Journal of Chemistry	scopus

Integrated Disease Management of Bull's eye pathogen infecting Lycopersicone esculantum (Tomato).	Deepti Sadana and Nidhi Didwania	Journal of Microbiology, Biotechnology and Food Sciences	scopus
Cumin (Cuminum cyminum L.): Chemical constituents and therapeutic potential.	Divya Sharma, Seema Yadav and Nidhi Didwania	Ambient Science	wos
Cryopreservation Technique: A powerful tool for long term preservation of endangered medicinal plants.	Pushpa, Nidhi Didwania	Ambient Science	wos
Studies On The Impact Of Abiotic And Nutritional Factors On Mycelial Growth And Sporulation Of Alternaria brassicae Causing Blight In Indian Mustard	Surbhi Gupta, Nidhi Didwania	International Journal of Scientific & Technology Research	scopus
In vitro Phytotoxic Effect of Cadmium on Morphological Parameters of Allium cepa. (Scopus)	Nidhi Didwania, Swati Jain and Deepti Sadana.	Jordan journal of Biological Sciences.	scopus
Origin and identity of the Brokpa of Dah-Hanu, Himalayas–an NRY-HG L1a2 (M357) legacy	Adikarla Syama, Varadarajan Santhakumari Arun, GaneshPrasad ArunKumar, Ray Subhadeepta, Kai Friese, Ramasamy Pitchappan, Genographic Consortium	Annals of human biology	scopus
Bioremediation options for heavy metal burdened environment	Meena Kapahi, Sarita Sachdeva	Journal of Health & Pollution	SCOPUS
Delivery of microbial metabolites for human health care: a review	Debashish Mohanta, Rajesh Ghangal, Manu Solanki, Soma Patnaik	Environmental Chemistry Letters	Scopus/WOS
Therapeutic Potential of Family Oleaceae in Ageing Associated Disorders	Prerna Sharma and Abhilasha Shourie	Ambient Science	WOS
Influence of Jasmonic acid on Flavonoid Production in Glycyrrhiza glabra Callus Cultures	U. Vijayalakshmi and Abhilasha Shourie	Ambient Science	WOS
Yeast extract mediated elicitation of anti-cancerous compounds licoisoflavone B, licochalcone A and liquirtigenin in callus cultures of Glycyrrhiza glabra	U. Vijayalakshmi and Abhilasha Shourie	BioTechnologia	SCOPUS
Carbon nanotubes: Evaluation of toxicity at biointerfaces	D. Mohanta, SomaPatnaik, S. Sood, N. Das	Journal of Pharmaceutical Analysis	SCOPUS
Role of Bacteriocin in Tackling the Global Problem of Multi-Drug Resistance: An Updated Review	K.L.R Bonhi and Sabiha Imran	Bioscience Biotechnology Research Communications,	SCOPUS
Anti-Cancer Therapy of Curcumin Alone and In Combination with Temozolomide	Deepika Tripathi and Sabiha Imran	Ambient Science	WOS

In-silico molecular docking study of novel derivatives of erlotinib in glioma.	Deepika Tripathi and Sabiha Imran	Asia-Pacific Journal of Molecular Biology and Biotechnology	Scopus
Molecular Docking and in silico ADME Studies of Novel Derivative of Erlotinib in Glioma	Deepika Tripathi and Sabiha Imran	International Journal of Pharmaceutical Sciences and Research	Scopus
Molecular Docking and Molecular Dynamics Studies on Derivatives of Erlotinib In High-Grade Glioma to Target EGFR Receptor of Tyrosine Kinase	Deepika Tripathi and Sabiha Imran	Applied Biochemistry and Biotechnology	
Cadaverine: A Diamine Presence & Role In Plants.	Charu Rajpal, Pushpa C. Tomar	Plant Archieves : An International Journal	
Micronutrient encapsulation using Nanotechnology: Nanofertilizers Plant Archieves (Accepted) SCOPUS	Tanya Kalra, Pushpa C. Tomar, Komal Arora	Plant Archieves : An International Journal	
Effect of Cadaverine On Cultivars Of Tomato [Lycopersicon Esculentum (L.) Em. Thell] Under Multiple Stress.	Charu Rajpal, Pushpa C. Tomar	Plant Archieves : An International Journal	
Role of Medicinal plants as green pesticides against Alternaria blight (Accepted)	Surbhi Gupta, Nidhi Didwania	Bulgarian Journal of Agricultural Science (BJAS)	
Augmenting The Efficiency Of Scaffolding In Medical Therapies With The Advent Of Nanotechnology	Pushpa C. Tomar, Tanya Kalra, Harisha Kohli, Komal Arora	Journal of microbiology, biotechnology and food sciences	SCOPUS, WOS
Cadaverine: A Potent Modulator Of Plants Against Abiotic Stresses , Journal of microbiology, biotechnology and food sciences.	Charu Rajpal, Pushpa C. Tomar	Journal of microbiology, biotechnology and food sciences	SCOPUS, WOS
Anti-biofilm activity of Azadirachta indica and Ocimum sanctum Aqueous Extract Combination against MRSA	Sanchit Sood and Joseph Davis	International Journal of Pharmaceutical Research	SCOPUS
Vaccine Designing Against Visceral Leishmaniasis: Challenges for Developing Sucessful Vaccine	Sabiha Imran	International journal of Basic and Applied Biology	www.krishisanskriti.org
Aqautic weeds as the next generation feedstock for sustainable bioenergy production	Manpreet kaur, Sarita Sachdeva, Manoj Kumar, S.K. Puri	Bioresource Technology	https://www.sciencedirect.com/science/article/abs/pii/S0960852417320862
Current trends and future perspectives in the recycling of spent lead acid batteries in India	Kalpna Varshney , Pradeep K. Varshney , Kajal Gautam , Monika Tanwar , Meghna Chaudhary	Materials Today: Proceedings	WOS

Adsorption of bivalent lead ions from an aqueous phase system: Equilibrium, thermodynamic, kinetics, and optimization studies	Suman Saini,Rajeev Kumar, Jyoti Chawla, Inderpreet Kaur	Water Environment Research	Scopus
Response surface methodology (RSM) for optimization of cadmium ions adsorption using C16-6-16 incorporated mesoporous MCM-41	Suman Saini, Jyoti Chawla, Rajeev Kumar, Inderpreet Kaur	SN Applied Sciences	WOS
Therapeutic Potential of the Cannabis plant: Application and Knowledge Gaps	Jyoti Chawla	Ambient SCIENCE	WOS
Anticancer Medicinal Plants: Opportunities and Challenges For Conservationand SustainableUse	Rajeev Kumar	Ambient SCIENCE	WOS
Experimental Investigation on Beneficial Use of Contaminated Dredged Soil Stabilized/Solidified with GGSS-OPC Mix	Anjali Gupta, V.K. Arora , Srijit Biswas (2019)	i-manager's Journal on Civil Engineering, Vol 9(3), pp 8-15.	EBSCO, ICI
Use of contaminated dredged soil in different pavement layers after thermal treatment and stabilization/solidification	Anjali Gupta, V.K.Arora, Srijit Biswas	Journal of Engineering Science and Technology	SCOPUS
Optimal Municipal Solid Waste Management of A City in North India	Neeraj Parashar, Sandeep Singla, Anuj Sachar, Anjali Gupta(2019)	International Journal of Innovative Technology and Exploring Engineering (IJITEE),	SCOPUS
Neutrosophic Fuzzy Approach for Assessment of Health Hazard of Ragpickers, Vol 9(1), pp 19-24.	Srijit Biswas, Sunita Bansal , Anjali Gupta	Journal of Scientific and Technical Research	EBSCO
Urban, Water and Sustainable Environment Approaches	Vijay Dahiya, Sadiqa Abbas	International Journal of Advanced Science and Technology	SCOPUS
A novel Approach in selection of Municipal solid waste incinnrator (MSWI)Ash as an embankement material: VIKOR Method	Sonal Bhugra, Sadiqa Abbas, Manju Dominic	Lecture Notes on Civil Engineering, Published by Springer	Scopus
Durability of Soil Blended with Fly-Ash	Aasia Mukhtar, Suruchi Sneha, Sadiqa Abbas, SM Abbas	Lecture Notes on Civil Engineering, Published by Springer	Scopus
Role of Engineer in Quantifying Quality of Human life in Global World	Sanjay Gupta	International Inventive Multidisciplin Congratulation Journal - 23487135 (107-115) ,JAN 5,2018	http://www.shreeprakashan.com

Parametric study of H-index for engineering and medical science out put	Sanjay Gupta	International Journal of Engineering Technology and Science Technology , IJETST	Volume 03, issue 05, 2348-9480, impact factor= 2.838, DOI http : // ax .doui.org/10.18535 /ije ast/v 3 io2.05,
Sustainable Development of Storage of water due to sinking of water below the ground water table ; private partner ship	Sanjay Gupta	International Journal of Engineering Technology and Science Technology , IJETST	volume 03, issue 05, Page 3846-9480 , 2348-9480, impact factor = 2.838, DOI http : // ax .doui.org/10.18535 /ije ast/v 3 io5.04
Evaluation of Principal strain and its direction due to Three dimensional finite element stresses ,strain and its Direction during the impact of structural dynamics load	Sanjay Gupta	International Journal of Research in Engineering and Applied Sciences	2249-3905 , VOLUME 6, ISSUE 02, Feb 2016
Impact of structural Static and Dynamic force below the base of foundation using three dimensional stresses	Sanjay Gupta	International journals of Emerging trends in Science and technology , IJETST,	volume 03, issue 02, Page 2523-3533 , Feb , 2348-9480, IMPACT FACTOR = 2.838, DOI http : // ax .doui.org/10.18535 /ije ast/v 3 io2.05, Feb,2016, impact factor = 2.838, http://ijetst.in/article/v3-i2/5%20ijetst.pdf
Emergency Vital Data Packet Transmission in ZigBee Enabled Hospital Centered Wireless Body Area Network	Kusum Grewal Dangia , Amita Bhagatb,Supriya P Panda	Procedia Computer Science Journal	Scopus
Implementing Block Chain Security to Prevent DDOS Attacks in Networks	Ashu, Rashima Mahajan, Sherin Zafar	International Journal of Security and its Applications	ESCI(Emerging Sources Citation Index)/WoS
The Qualitative Study on Input – Output Channel Configurations in Wireless Body Area Network	Savita Sindhu , Shruti Vashist , V.R.Singh	Procedia Computer Science Journal	Scopus

Analyzing the impact of temperature on axoplasmic fluid properties defining neuronal excitation	Suman Bhatia, Prabha Sharma, Phool Singh, P. Bhatia	Journal of Thermal Engineering	Scopus/WoS
Impact of Neuro Linguistic Programming on Social Communities through Visual Kinesthetic Dissociation	Arun Kumar, Dr. Supriya.P.Panda	International Journal of Computer Applications	EBSCO
Analysis of Prediction Techniques for Temporal Data Based on Nonlinear Regression Model	pinki sagar, Dr. Indu Kashyap	Advances in Intelligent Systems and Computing	Scopus
Identification of Cognitive Workload via EEG Based Brain Mapping in Real Time	Anshul, Dipali Bansal, Rashima mahajan	International Journal of Advanced Science and Technology (IJAST)	Scopus
Extreme Gradient Boosting Algorithm for Energy Optimization in buildings pertaining to HVAC plants	Monika Goyal, Mrinal Pandey	Energy Web	Scopus
Rule Based approach for sarcasm detection on twitter Data	Priyanka Grover, Poonam Katyal	International Journal of Advanced Science and Technology (IJAST)	Scopus
A novel change impact model for enhancing project management.	Dr. Deepa Bura, Dr. Amit Choudhary	International Journal of Project Organisation and Management	Scopus
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Publications in National & International Conferences:

Name of the teacher	Title of the paper	Name of the conference
Dr. Jyoti Sharma	The Role of Media and Literature in the Controversial Case of the Film Padmavat	International Conference on Media, Language and Literature: Changing Concepts and Dimensions.
Sujata	"An Ear to the unheard subalterns: A comparative Study of Mulk Raj Anand's *Untouchanle* and Arundhati Roys *The God of Small Things*	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Dr. Pooja Anand	"Relationship between balance,agility,core strength with performance in slalom dribbling test in university level male soccer players" "Impact of core stability on bowling speed and throwing accuracy of bowlers" "Anthropometric measurements and their relation to static and dynamic balance between in young tennis players"	8th Institute of Physical Education International Conference 2018, Bangkok, Thailand
Sujata	"Speaking for the Voiceless: Carrying Forward The Legacy of Kabir in Kazi Nazrul 's *The Rebel*"	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Sujata	"The Passive 'New Woman' in William Carols Williams Poems"	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Jyoti Sharma	"Transformations" by Anne Sexton:Fairy Tales as Confessional Poetry	National Conference on Language and Literature: Transgressing Boundaries
Sujata	"Unheard Voices of Women in Indian Mythology: Exploring the Plight of Sita and Shakuntala""	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Sonakshi Khosla, dhutima Malla, Ishank Dua, Deepa Bura, Pronika Chawla	"Nutri-Mental" –An Android Application For Personal Health And Nutrition Management	International Conference on Communication and Electronics Systems (ICCES 2020).
Jayashree Hazarika	"Sashi Deshpande's Ideology and the Subaltern Term"	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
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Dr. Poonam Tanwar, Ms Banita	3D Facial Model for Analysing the Facial Paralysis	3rd International Conference on Computers and Management (ICCM 2017)
Gupta, A., Thakur, H.K., Shrivastava, R., Kumar, P., Nag, S.	A Big Data Analysis Framework Using Apache Spark and Deep Learning	
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Deepika Khurana, Vandana Batra	A Comparative Study Of Big Data Processing Tools	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
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Dipesh Jain, Vivek Kumar, Darpan Khanduja, Ritika Bateja,Dr. Kamlesh Sharma	A detailed study of Bigdata in Healthcare:Case study of Brenda and IBM Watson	InterSquad Cyber Intelligence Pvt. Ltd (ISCI - India)
Ankita Verma, DHUTIMA MALLA, AMRIT KAUR, VASUDHA ARORA	A DETAILED STUDY OF WINDOWS AZURE AND ITS COGNITIVE SERVICES	COMITCON
DIPTI Bansal , Naresh Grover, Rashima Mahajan	A Holistic Approach to assess learning outcome Attainment Levels for Engineering Programs	2019 IEEE Global Engineering
Mumtaz, D., Ahuja, B.	A Lexical and Machine Learning-Based Hybrid System for Sentiment Analysis	
Dr Ochin	A New Activation Function for Deep Neural Network	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Robin Swamy, Anupriya Jain, Prasenjit	A New Approach for Analyzing Human Body Temperature	6th International Conference on Computing for Sustainable Global Development (INDIACom)
Sonal Bhugra, Sadiqa Abbas	A novel Approach in selection of Municipal solid waste incinnrator (MSWI)Ash as an embankement materia: VIKOR Method	International conference on Smart Cities: Opportunity andChallanges
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Priyanka Grover, Poonam Katyal	A Novel Hybrid DOM and Geometric Layout Model based Approach for Web Page Segmentation	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Ms. Arkaja Garg	A Perpetual Study on Employee Enagement in Non-Profit Organization of Gujrat	2017 MTMI International Conference on Emerging Issues in Business, Technology and Applied Sciences
Gift Pon Lazarus D	A practical study of strength properties on PCM based mortar	International conference on Smart Cities: Opportunity and Challanges
Ms Priyanka, Dr. Poonam Tanwar	A propose system for opinion mining using Machine Learning Approach using NLP and classifiers	12th INDIACom; INDIACom-2018; IEEE Conference ID: 42835 2018 5th International Conference on "Computing for Sustainable Global Development", 14th – 16th March, 2018 Bharati Vidyapeeth's Institute of Computer Applications and Management
Thakral, S., Bansal, D.	A quick guide to implement reversible logic	
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Shashi Tiwari	Aerosol particle number size distribution study in Delhi NCR	IIT,DELHI
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Raja Siddharth, Shobha Tyagi, Dr. Prateek Jain	An Analysing of Security Vulenerabilty in Open Stack Platform: A practical View	12th INDIACom; INDIACom-2018; IEEE Conference ID: 42835 2018 5th International Conference on "Computing for Sustainable Global Development", 14th – 16th March, 2018 Bharati Vidyapeeth's Institute of Computer Applications and Management
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Deepa Bura, Meeta Singh, Poonam Nandal	Analysis And Development Of Load Balancing Algorithms In Cloud Computing	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
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Yugansh Khera, Deepansh Kumar, Sujay, Nidhi Garg	Analysis and Impact of Vulnerability Assessment and Penetration Testing	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Yadav, A., Kumar, S.	Analysis and simulation of low-energy adaptive clustering hierarchy protocol	
VINOD KUMAR AND DEEPAK KUMAR	ANALYSIS OF EPIDEMIC MODEL USING BASIC REPRODUCTION NUMBER	CONFERENCE ON INTERNET OF THINGS AND CONNECTED TECHNOLOGIES, 2018
Shubham Chopra, Satyam Bhardwaj, Ram Narayan, Rohit Rajput, Vandana Batra	Analysis of IRIS Recognition algorithms	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Maedeh Afzal , Dr. Suresh Kumar	Analysis of Key factor for Organization Information Security	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
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Shilpi Gupta, Dr.Madhulika	Anatomy of Leaf Classification Techniques	2020 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
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Nripendra Narayan Das, Ashish Juneja,	Big Data Quality Framework: Pre-Processing Data in Weather Monitoring Application	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
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Shashi Tiwari	Chemical Characterization and Source Apportionment of PM2.5 Aerosols in the Capital City "New Delhi" of India	Saint Louis Missouri, USA

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TANVI GUPTA , DR. SUPRIYA P PANDA	Clustering Validation of CLARA and K-Means using Silhouette & DUNN Measures on Iris Dataset	INTERNATIONAL CONFERENCE ON MACHINE LEARNING ,BIG DATA , CLOUD , PARALLEL COMPUTING(COM-IT-CON)
Rashima Mahajan, Pragya Gupta	Color Based Segmentation towards Structural Distribution of Image Data	International Conference on Advanced Informatics for Computing Research (ICAICR-2018)
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Kritika Soni, Suresh Kumar	Comparision of RBAC and ABAC Security Models for Private Cloud	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Teena Hassija	Comparitive Analysis of Indian Aviation Industry: Evidence from top three airlines	11th National Conference on Contemporary Management Research
Anchit, Sakshi Singh, Rachna Behl	Concurrency Control in Distributed Databases	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Teena Hassija	Cost Analysis and Financial Performance of Indian Aviation Industry (A Comparative Analysis)	ICRTAET (International Conference on Recent Trends and Advancements in Engineering and Technology)
Dr. Jyoti Sharma	Crisis of Identity: The Pivotal theme Hinging Lowell's Skunk Hour and The Dolphin"	International Conference on "Resistance and Assimilation: Voices of the Subalterns"

Jyoti Sharma	Crisis of Identity: The Pivotal theme Hinging Lowell's Skunk Hour and The Dolphin"	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Abhigna, B.S., Soni, N., Dixit, S.	Crowdsourcing - A Step Towards Advanced Machine Learning	
Abhigna, Dr Nitasha, Shilpa dixit	Crowdsourcing – A Step Towards Advanced Machine Learning	paper accepted for special session on "Imminent advancements on Intelligent Sensor Networks and Data Science in Communication" in International Conference on Computational Intelligence and Data Science, ICCIDS 2018, publish in Procedia Computer Science, Elsevier
Dr. Jayashree	Culinary Exploration Of Vikram Seth's Works	International Conference on Media, Language and Literature: Changing Concepts and Dimensions.
Richa Adhlaka, Shobit Sharma, Aman Rawat, Dr. Kamlesh Sharma	Cyber Security : Its goal, Issues, Categorization & Data Breaches	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Ayushi Sinha, Dr. Kamlesh Sharma	Cyber Warriors: Tradeoffs between attack and defense of information system	InterSquad Cyber Intelligence Pvt. Ltd (ISCI - India)
Ms.Anshu, Dr. Poonam Tanwar	Deep Analysis of Autism Spectrum Disorder Detection Techniques	IEEE, international Conference on Engineering and Management,2020
Dr Ochin	Deep Challenges Associated with Deep Learning	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Dr.Madhulika, Dr. Kamlesh sharma, Mansi, Anchal Garg, Madhurima	Delineating Academic state of Big Data Science in accordance with industry prerequisties	International conference on recent trends in engineering & science
Kaur, P., Mathew, L.	Design and development of a graphical user interface for real time monitoring and analysis of vital human body parameters	
Anshul Khatter, Dipali Bansal, Rashima Mahajan	Design and Implementation of efficient digital filter for preprocessing of EEG signals	2019 6th International Conference on Computing for Sustainable Global Development
Aditya Verman, Vishrant Khanna, Dr. Poonam Tanwar]\	Design of Blockchain system for a Real Estate (A Revolution)	ICCS 2019

Dr. Sujata	Devdas in Hindi Movies	International Conference on Media, Language and Literature: Changing Concepts and Dimensions.
Dr. Rakesh Arya , Ms. Divya Gupta	Digital Technology, Employment and Economic Growth	7th International Conference on Engineering Technology, Science and Management Innovation,(ICETSMI-2017)
Dr. Rakesh Arya	Digital Technology, Employment and Economic Growth	7th International Conference on Engineering Technology, Science and Management Innovation,(ICETSMI-2017)
Sadiqa Abbas	Durabilty of Soil Blended with Flyash	International conference on Smart Cities: Opportunity andChallanges
Shyam Mohan Parashar, Mayank Pande, Jagvir Singh,	Dynamic Capacitor Placement to Mitigate Disaster in Distribution System: A fuzzy Approach	IEEE Int. conference on Power Electronics, Control and Automation,
Shyam Mohan Parashar, Mayank Pande, Jagvir Singh	Dynamic Capacitor Placement to Mitigate Disaster in Distribution System: A fuzzy Approach	IEEE Int. conference on Power Electronics, Control and Automation,
Shilpa Bhatia, Sarthak Matta, Bindiya Ahuja, Monika Bhatia	E-Commerce in Digital India	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Sanjay Gupta	Educational system and evaluation	IEI, Seminar on education, Special invitee
Rashima Mahajan, Dipali bansal, Anshul Khatter	EEG Based Cognitive Brain Mapping in Time Domain to Analyze EM Radiation Effect on Human Brain	International Conference on Advanced Informatics for Computing Research (ICAICR-2018)
Dr Shivani Vashist	Embracing Popular Literary Adaptations as Educational Tools with special reference to Screening the Novel *The Namesake*	International Conference on Media, Language and Literature: Changing Concepts and Dimensions.
Sanjay Gupta	Energy conservation	IEI, Seminar on energy, special invitee
Dr. Anita Khosla,Ashish Grover, Richa adlakha	Engineering the Future of Our World	Engineering For Change,by Institution of Engineers
Dr. Anita Khosla,Ashish Grover, Richa adlakha	Engineering the Future of Our World	Engineering For Change,by Institution of Engineers
Ashu Gautam, Rashima Mahajan	Engross Block Chain Security to Palliate DDOS attacks in Networks	NetCrypt2019, Int Conf on Networks and Cryptology
Karan Chaudhary, Sahil Yadav, Tanishq Singh, Dhruv Yadvanshi, Monika Garg	Ensuring privacy in Big Data	ICDAM 2020

MS. Shobha, Dr. Krishan Kumar	Evaluation of Static Web Vulnerability Analysis Tools	5th International Conference on Parallel , Distributed and Grid Computing
Tyagi, S., Kumar, K.	Evaluation of static web vulnerability analysis tools	
Shweta Bali,Dr.S.S.Tyagi	Evaluation of Transfer Learning Techniques for Classifying Small Surgical Dataset	Confluence 2020
Divya Gupta , Varsha Singh	Exchange Rate - A Nominal Anchor for Indian Economy	INCON 2017 – 12th EDITION
Varsha Singh	Exchange Rate - A Nominal Anchor for Indian Economy	INCON 2017 – 12th EDITION
Kanika Garg, Indu Kashyap	Experimental Review of Different Homomorphic Encryption Schemes for Integrity Verification of Data	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Dr. Shivani Vashist	EXPLORATION OF SUBALTERN CONSCIOUSNESS IN THE NOVEL DAHAN: THE BURNING OF SUCHITRA BHATTACHARYA"	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Shivani Vashist	EXPLORATION OF SUBALTERN CONSCIOUSNESS IN THE NOVEL DAHAN: THE BURNING OF SUCHITRA BHATTACHARYA"	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Monika Goyal, Mrinal Pandey	Exploratory Analysis of Machine Learning Techniques to predict Energy Efficiency in Buildings	ICRITO 2020
Kautsav,Swati, Priyanka,Dr. Poonam Tanwar, Dr. Brijesh Kumar	Facial Expression recognitions to predict Emotions	IEEE, International Conference on Engineering and Management,2020
Chitra Mehra, Dr. Rashmi Agrawal	Feature Selection and Academic Performance Prediction: A Study	International Conference on Innovative Computing and Communication (ICICC) 2020
Harshita Tiwary, Indu Kashyap	Feature Subset Selection for Twitter Spam Detection	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Sorabh, Raghav, V., Sengar, S.S.	Finite Element Analysis of Rectangular Defects in Inspection of Steel Pipelines using Magnetic Flux Leakage Technique	
Shyam Mohan Parashar, Mayank Pande, Jagvir Singh	Flexible Capacitor Placement to Manage Disaster in Distributed Generation: A fuzzy technique	IEEE Int. conference on Computing, Communication and Intelligent Systems,

Shyam Mohan Parashar, Mayank Pande, Jagvir Singh,	Flexible Capacitor Placement to Manage Disaster in Distributed Generation: A fuzzy technique	IEEE Int. conference on Computing, Communication and Intelligent Systems,
Sanjay Gupta	Ground Improvement Stability Using Three Dimensional Finite Element Method for Conference on Infrastructure Sustainability in Hilly Regions	CISHR , NIT ,Dehradun
Kumari Neeta Shukla, Devi Singh and R. S. Pandey	Growth of Ion cyclotron waves in Saturnian magnetosphere in the presence of parallel AC field for ring distribution	
Sharma, A.K.	Historic City - A Case of Resilient Built Environment	
Ankit , Dr. Poonam Tanwar, Ms. Stuti Mehra	Home Automation system using Internet of Things (IOT)	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con),978-1-7281-0211-5/19/$31.00 2019 ©IEEE
Sahil Verma, Rohandeep Khurana,Vedant Sood, Meeta Singh	Home Automation Using Artificial Intelligence	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Ramesh Chandra Sahoo ,Sateesh Kumar Pradhan , Poonam Tanwar	HopNet based Associative Memory as FC layer in CNN for Odia Character Classification	Confluence 2020
Khatri, A., Khatri, V., Goenkar, M.V., Singh, R., Sharma, S., Grover, P.	Hybrid Cryptosystem based Security in Cloud Computing	
Preeti Nair,Indu Kashyap	Hybrid Pre-processing Technique for Handling Imbalanced Data and Detecting Outliers for kNN Classifier	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Ashish Grover,Anita Khosla	Hybrid Renewable Energy Systems: Integration Schemes of Grid connected/ Standalone	Computing For Sustainable Global Development, INDIACom
DR. Simran Kaur, Nidhi Tandon	Impact of Digital Market on Consumer Buying Behaviour	8th National Conference on People, Planet & Profit (Triple 'P') in Sustainable Development & Contribution of IT, Media and Management
Vaishali Kalra, Rashmi Agrawal	Importance of preprocessing of data in RapidMiner	ICITKM-17

Srivastava, P., Agrawal, B.	Innovative strategies for the development of rural India through village cottage and agribusiness enterprises	
Agrawal, B.	Innovative strategies for the development of rural India through village cottage and agribusiness enterprises	
Agrawal, R.	Integrated effect of nearest neighbors and distance measures in k-nn algorithm	
Dr. Rashmi Agrawal	Integrated Parallel K-Nearest Neighbor Algorithm	2nd International Conference on Smart Computing & Informatics (SCI-2018)
Ms. Stuti, Dr. Anchal, Dr. Poonam Tanwar	Intelligent Embedded Automated control system for Maiternity ward based on IOT and Face recognition	IEEE INTERNATIONAL CONFERENCE ON COMPUTING, POWER AND COMMUNICATION TECHNOLOGIES 2018 (GUCON)
Mehra, S., Khatri, A., Tanwar, P., Khatri, V.	Intelligent Embedded Security control system for Maternity ward based on IoT and Face recognition	
Jindal, S., Sharma, K.	Intend to analyze Social Media feeds to detect behavioral trends of individuals to proactively act against Social Threats	
Dr. Kamlesh Sharma, Srishty Jindal	Intend to analyze Social Media feeds to detect behavioral trends of individuals to proactively act against Social Threats	International Conference on Computational Intelligence and Data Science (ICCIDS 2018),
Ochin Sharma , Suresh Kumar, Nisheeth Joshi	Interest Measure Based Associative Classification In Data Mining	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Dr. Kamlesh Sharma and Ankit Arpan Mohanty	Introspective and Comparative Study of various cryptography techniques	12th INDIACom; 2018 05th International Conference on Computing For Sustainable Global Development, Technically Sponsored by IEEE Delhi Section and in association with IET (UK), Delhi Local Networks, ISTE Delhi Section , IETE Delhi Centre, CSI Delhi Chapter and GGSIP University
Shradha, Madhurima, Saru Dhir and Madhulika	IoT For Healthcare: Challenges and Future Prospects	INDIACOM2018
Ritika Bateja,Sanjay Kumar Dubey, Ashutosh Bhatt	Leveraging latest developments for delivering patient centric healthcare to diabetic patients	ICRITO 2020

Shefali Singhal,Neha Garg	List Oriented Web-Page By Introducing Logical Structure For Any Browser On Small Screen Terminal.	International Conference on Computers and Management (ICCM) 2017
Dixit, P., Pillai, A., Rishi, R.	Location Information Based Destination Converging Routing Method (LIBDCR)	
Shashi Tiwari	Long-term characterization and source apportionment of carbonaceous aerosols over five sites in Northern India	Saint Louis Missouri, USA
Rashmi Srivastava, Hitendra K. Malik and Devi Singh	Low frequency dust acoustic waves and instabilities in a multi-component plasma	
Shah, O.A., Ahmed Khan, I., Nijhawan, G., Garg, I.	Low Transistor Count Storage Elements and their Performance Comparison	
Shefali Singhal	Machine Learning for Big Data	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Agarwal, M., Mahajan, R.	Medical Image Contrast Enhancement using Range Limited Weighted Histogram Equalization	
Dr. Tripti Tyagi	Misconduct of 'Cease and Desist' and Curbing Press: Re-visioning the Histoire of Lord Wellesley'	International Conference on Media, Language and Literature: Changing Concepts and Dimensions.
Ekta Soni, Rashima mahajan	MRI Image Compression using Asymmetric Wavelet Analysis	Advanced Informatics for Computing Research(2019)
Ekta Soni, Rashima Mahajan	MRI Image Compression using Asymmetric Wavelet Analysis	ICAICR-2019, 3rd Int Conf on Advanced Informatics for Computing Research
Sherin, Z., Deepa, M.	Neoteric Iris Acclamation Subtlety	
Deepa, M., Indu, K., Sherin, Z.	Neoteric RA Approach for Optimization in ZRP	
Yadav, A., Kumar, S., Vijendra, S.	Network Life Time Analysis of WSNs Using Particle Swarm Optimization	
Ujjwal Sharma, Princi Sharma, Vivek Rawal, Priti Narwal	Network Security: Internal and External attacks	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Rachna Behl, Geetika Chawla	Next Generation Of Big Data Visualization With Augmented Virtual Reality	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Dr. Upasana Yadav	Oleogels: A healthier alternate to saturated fats in food products	UGC sponsored nation al conference on food safety, nutrtional secutiry and sustainibility

Anjali Gupta	Optimal Municipal Solid Waste Management of A City in North India	2nd International Conference on Applied Science and Engineering
Dr. Poonam Tanwar, Ms Banita	Optimization Technique to analyse Facial Paralysis	12th INDIACom; INDIACom-2018; IEEE Conference ID: 42835 2018 5th International Conference on "Computing for Sustainable Global Development", 14th – 16th March, 2018 Bharati Vidyapeeth's Institute of Computer Applications and Management
Ms. Simple Sharma, Dr. Seema Verma	Optimizing Website effectiveness using various SEO Techniques	SPIN 2020
Poonam Chaudhary and Dr Rashmi Agrawal	Orthonormal Wavelet Transform for Efficient Feature Extraction from Sensory Motor Imagery based Electroencephalogram Signals	International Conference on Innovative Computing and Communication (ICICC) 2020
Hooda, M., Bhatia, M., Yadav, B.	Perceptions of Millennials Towards Social Media Privacy Issues: A Survey	
Shweta Sharma, Yachi kathuria, Subhrojeet Mukherjee, Ashutosh Mishra	Performance Analysis of Olympic Runner	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Hooda, M., Pathak, S., Madhulika, D., Yadav, B.	Pervasive Security of Internet Enabled Host Services	
Jyoti Sharma	Plath's " The Bell Jar": A Psychological Case study of 20th Century Adolescent	National Conference on Language and Literature: Transgressing Boundaries
Dr. Shivani Vashist	Plight and Protest of Tess and Nora: A Study of Women in Patriarchal Society	International Conference on Women's Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women's Leadership: Issues and Challenges in 21st Century
Shivani Vashist	Plight and Protest of Tess and Nora: A Study of Women in Patriarchal Society	International Conference on Women's Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women's Leadership: Issues and Challenges in 21st Century

Dr .Anita Khosla, Richa Adlakha , Ashish Grover	Potential of Engineers in Nuturing India	Role of Engineers in Developing India
Deepa Bura,Poonam Nandal,Meeta Singh	PREDICTING SECURE & SAFE ROUTE FOR WOMEN USING GOOGLE MAPS	International Conference on Machine Learning,Big data, Cloud and Parallel Computing
Neeru Singh, Supriya Panda	Prediction of Water level using Time Series on Badkhal Lake	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Pinki Sagar, Prinima Gupta, Indu Kashyap	Prediction Technique for Time series Data sets using Regression models	2ND INTERNATIONAL CONFERENCE ON ADVANCED INFORMATICS FOR COMPUTING RESEARCH
Deepa Mehta, Indu Kashyap, Sherin Zafar	Predominance of Hybrid Routing Protocols in MANET	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Pal, K., Kumar, S., Singh, B., Kandpal, T.C.	Pre-Filter Based Third Order Sinusoidal Signals Integrator Algorithm for Grid Tied PV System	
Sagar, R.V., Maharana, B.	Prevalence of Corporate Culture in University Libraries of Delhi	
Midha, S., Kaur, G.	Proposed routing protocol for clouds	
Yadav, G., Soni, M., Joshi, D.	Protocol for Smart grid for two-way communication	
Ritika Bateja,Sanjay Kumar Dubey, Ashutosh Bhatt	Providing patient centric healthcare to diabetic patients using D-care recommender system	ICAICR 2019
Kandpal, B., Hussain, I., Singh, B., Tomar, K.P.	Quantization based adaptive control of SPV-grid tied system	
Simran Goyal, Charu Pujara	Query processing in Social Networks	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Mehta, D., Kashyap, I., Zafar, S.	Random cluster head selection based routing approach for energy enrichment in MANET	
Mahajan, R., Bansal, D.	Real Time EEG Based Cognitive Brain Computer Interface for Control Applications via Arduino Interfacing	
Mr. Suman Sarkar and Dr. Bhavesh P. Joshi	Recent Advances, Innovations and Challenges in Business and Research	NA
Dr. Rakesh Arya	Road to Engineering	7th International Conference on Engineering Technology, Science and

		Management Innovation,(ICETSMI-2017)
Ms. Divya Gupta	Road to Engineering	7th International Conference on Engineering Technology, Science and Management Innovation,(ICETSMI-2017)
Dr. Preeti Singh	Road to Engineering	7th International Conference on Engineering Technology, Science and Management Innovation,(ICETSMI-2017)
DR ANJALI SINGH	ROLE AND CHALLENGES OF GENERAL MANAGEMENT TOWARDS INDIA AS A GLOBAL POWER	IPSA@80, 58TH ALL INDIA POLITICAL SCIENCE CONFERENCE AND INTERNATIONAL CONFERENCE ON ASPIRING INDIA
Sanjay Gupta	Role of Engineer in quantifying quantity of human life in global world	Hotel, neelam chock, Faridabad ,India
Manisha Vashisht, Dr.Madhulika	Role of Mathematics in Image Processing	2020 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Dr. Swati	Role of Media in the Novel of R. K. Narayan's 'The Guide	International Conference on Media, Language and Literature: Changing Concepts and Dimensions.
Neha Yadav , Urvashi Chugh	Secure Routing in MANET : A Review	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Nripendra Narayan Das, Mohit Chowdhary, Rahul Luthra, Maisera, Saurabh Garg	SEMANTIC BIG DATA SEARCHING IN CLOUD STORAGE	2020 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Mumtaz, D., Ahuja, B.	Sentiment analysis of movie review data using Senti-lexicon algorithm	
Pankaj, Prashant Pandey, Muskan, Nitasha Soni	Sentiment Analysis/Classification on customer feedback data: Amazon product reviews	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Sharma, O., Kumar, S., Joshi, N.	Significant rule power factor: An algorithm for new interest measure	
POOJA KHURANA AND DEEPAK KUMAR	SIR MODEL FOR FAKE NEWS SPREADING THROUGH WHATSAPP.	CONFERENCE ON INTERNET OF THINGS AND CONNECTED TECHNOLOGIES, 2018
Srivastava, C., Jain, S., Agrawal, S.K.	Smart Graphical Comparator for solar charge controllers	

Dr. Kamlesh Sharma, Shobhit Mangla, Animesh Singh,	Smart System: IoT for voice-enabled Gas Pumps at Petrol Pumps	ICIDSSD-2020
Dr.Kamlesh Sharma, Sangeeta	Smartcard security Using Biometrics	12th INDIACom; 2018 05th International Conference on Computing For Sustainable Global Development, Technically Sponsored by IEEE Delhi Section and in association with IET (UK), Delhi Local Networks, ISTE Delhi Section , IETE Delhi Centre, CSI Delhi Chapter and GGSIP University
Surbhi Jain, Ashwarya Arora, Jatin Gandhi, Shelja Sharma	Social Media- A Mode for Cyber Attacks	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Dr. Jyoti Sharma	Social Media and Confessions	International Conference on Media, Language and Literature: Changing Concepts and Dimensions.
Saini, K., Mishra, R.K., Bhati, K., Kawoosa, S.	Social media based linking approach for finding the effectiveness of the social issues	
Saksham Kapur, Charu Pujara	Social Network	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Tushar Kaushik, Sarthak Singhal, Jayant Mandan , Dr. Kamlesh Sharma	Social Networking Analysis: A case study in Tools	InterSquad Cyber Intelligence Pvt. Ltd (ISCI - India)
VISHAWJYOTI , SUCHETA GUPTA	SOFTWARE DEFINED NETWORKING: FUTURE SCOPE AND REFERENCES	International Conference on Contemporary Issues in Business Innovation, Technology & Social Sciences
Madhurima Hooda,Anuj kumar,Madhulika Bhatia,Babita Yadav	Software Testing tools & techniqes in Indian universities: An analysis using SPSS	International conference on recent trends in engineering & science
Pooja Tehlan, Komal Kumar Bhatia, Rosy Madaan	Spam Detection in social media using soft computing	2019 6th International Conference on Computing for Sustainable Global Development
Shashi Tiwari	Spatial and temporal variation of particulate matter and gaseous pollutants in delhi for 2018 year	IIT,DELHI

Sadiqa Abbas	Spatial and temporal variation of particulate matter and gaseous pollutants in delhi for 2018 year	IIT,DELHI
Ochin Sharma, Sureh Kumar, Nisheeth Joshi	SRPF Interest Measure Based Classification to Extract Important Data	International Conference on Communications, Computing and Networking
Ochin Sharma, Sureh Kumar, Nisheeth Joshi	SRPF Interest Measure Based Classification to Extract Important Data	International Conference on Communications, Computing and Networking
Pal, K., Kumar, S., Singh, B., Kandpal, T.C.	State Feedback Generalized Integrator Based Controller for Utility Integrated PV System	
Pinki Kumari, Indu Kashyap	Steganography Scheme Using Non-Dominated Sorting Genetic Algorithm	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Amit Chugh, Supriya Panda	Strengthening Clustering Through Relay Nodes in Sensor Networks	International Conference on Computational Intelligence and Data Science (ICCIDS 2018)
Chugh, A., Panda, S.	Strengthening Clustering Through Relay Nodes in Sensor Networks	
Amit Chugh, Supriya Panda	Strengthening Clustering through relay nodes in Sensors Networks	International Conference on Computational Intelligence and Data Science (ICCIDS 2018),
Kundu, D., Upreti, A.	Study of Various Steganography Tools	
Chirag Madan, Rajat Garg, Dr. Kamlesh Sharma	Success Of Blockchain And Bitcoin	InterSquad Cyber Intelligence Pvt. Ltd (ISCI - India)
Jain, R., Kashyap, I.	Survey of Energy Aware Link Stable Routing Protocols in MANETS	
Shobha Tyagi	Survey paper on Web Application Vulnerability Prediction	National Conference on Networking, Cloud Computing, Analytics & Computing Technology (NCNCAC)
Mr. Arun , Dr. Supriya Panda	Survey: How Python Pitches In IT World	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Shelja Sharma, Suresh Kumar	Techniques for Real-World Implementation of a MANET	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Maedeh Afzal , Dr. Suresh Kumar	Text Document Clustering : Issues and Challenges	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)

Dr Shivani Vashist	The Influence of Social Media on Language	International Conference on Media, Language and Literature: Changing Concepts and Dimensions.
Neha Garg,Dr. Kamlesh Sharma	The Journey of BIG Data Analysis	International Conference on Computing for Sustainable Global Development
Raghav Chhabra , Uday Vohra, Vishrant, Aditya, Dr. Poonam Tanwar, Dr. Brijesh Kumar	The Next Gen Election : Design and Development of E-Voting Web Application	International Conference on Communication and Electronics Systems (ICCES 2020).
Dr. Shivani Vashist	The Unprecedented Voices of Subalterns in Amitav Ghosh's Novels	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Shivani Vashist	The Unprecedented Voices of Subalterns in Amitav Ghosh's Novels	International Conference on "Resistance and Assimilation: Voices of the Subalterns"
Singhal, A., Jha, V., Virmani, S., Jain, P.	Towards the study of a living mobile backbone: VANET	
Sakshi Jolly, Neha Gupta	Understanding and Implementing Machine Learning Models with Dummy Variables with Low Variance	International Conference on Innovative Computing and Communication (ICICC) 2020
Vrinda, Rosy Madaan, Komal Kumar Bhatia, Surbhi Bhatia	Understanding the role of Emotional Intelligence in usage of Social Media	Confluence 2020
Dr.Anita Khosla	Utilization of artifical neural newtwork for protection of power transformer	Intelligent computing and smartcommunication
Vinnet Shrivastava, Dr. Suresh Kumar	Utilizing Block Chain Technology in Various Application areas of Machine Learning	2019 International Conference on Machine Learning, Big Data, Cloud and Parallel Computing(Com-IT-Con)
Jain, U., Kumar, S., Dubey, S., Sharma, O., Kumar Jain, V.	Virtualization-A New Dimension of Big Data	
Dr. Shivani Vashist	Voice of the Voiceless: A Critical Study on the issue of Untouchability and Gender Inequality	International Conference on "Resistance and Assimilation: Voices of the Subalterns"

Shivani Vashist	Voice of the Voiceless: A Critical Study on the issue of Untouchability and Gender Inequality	International Conference on “Resistance and Assimilation: Voices of the Subalterns”
Sanjay Gupta	Water Management in Hydro power using Ocean Technology	International Conference , Water Management MREI , FBD
Singhal, S., Garg, N.	Web Page Representation Using Backtracking with Multidimensional Database for Small Screen Terminals	
Ashveer Singh , Abhishek Nath, Yashu Meel, Savita Sindhu	Wireless Body Area Network (WBAN) : Standards and Medical Application	National Conference on Advances in Material Science & IOTfor Smart Enviornment Monitoring ans Sustainabilty
Dr. Shivani Vashist	Women in Haryana Politics	International Conference on Women's Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women's Leadership: Issues and Challenges in 21st Century
Shivani Vashist	Women in Haryana Politics	International Conference on Women's Empowerment, Laws, Feminism, Gender Discrimination, Gender Space and Women's Leadership: Issues and Challenges in 21st Century
Dr. Malini Singh, Dr. Rekha Maitra	Youth Tourism-A quatitative study on Travel experience and expectations of young earning generation	Innovations and disruptions in Tourism, Travel and Hospitality Business Processes: A global Perspective
Dr. Malini Singh, Dr. Rekha Maitra	Youth Tourism-A quatitative study on Travel experience and expectations of young earning generation	3rd International Conference on Innovations and disruptions in Tourism, Travel and Hospitality Business Processes: A global Perspective

Books/ Chapter Published:

Name of the teacher	Title of the book/chapters published	ISBN No.
SHAVETA BHATIA	Internet if Things and Location Based Services	978-152-25-95-748
Neha Gupta	Bayesian Network for Development of Expert System in Pest Management	978-981-15-0663-5
Neha Gupta	Security and Privacy Issues of Blockchain Technology	978-981-13-8774-6
Neha Gupta , Rashmi Agrawal	Application and Techniques of Opinion Mining	9780128186992.00
Devender Bhushan and Rashmi Agrawal	The Internet of Things: looking beyond the hype	9780128213278.00
Poonam Chaudhary, Rashmi Agrawal	Brain Computer Interface: A New Pathway to Human Brain	978-3-030-48118-6
Rashmi Agrawal, Simran Kaur Jolly	Big Data and Machine Learning for Evaluating Machine Translation	978-3-030-39119-5
Rashmi Agrawal	Technologies for Handling Big Data	9781799801061.00
Devender Bhushan and Rashmi Agrawal	Security Challenges for Designing Wearable and IoT Solutions	978-3-030-23983-1
Parul Gandhi Jyoti Pruthi	Data Visualization Techniques: Traditional Data to Big Data	
Parul Gandhi Jyoti Pruthi	Internet of Things in Business Transformation: Developing an Engineering and Business Strategy for Industry 5.0	1119711126.00
Dr. Abhilasha Shourie	Chapter 25 - Cyanobacteria as a source of biofertilizers for sustainable agriculture in Book Title: Advances in Cyanobacterial Biology	ISBN: 9780128193112
Gupta S., Didwania N., Srinivasa N	Role of Bofertilizers in Biological Management of Fungal Diseases of Pigeonpea [(Cajanus cajan) (L.) Millsp] in Springer book volume on "Management of Fungal pathogens in Pulses-Current status and Future Challenges".	ISBN 978-3-030-35947-8
Pushpa and Nidhi Didwania	Biotechnological Techniques for Plant Disease Detection in Book Title:Biotechnology for plant disease diagnostics and management	ISBN 978-81-7132-914-4
Swati Jain and Dr. Pushpa C. Tomar	Awakening the Consciousness and Conscience Towards Plastic in Book Titled: Fundamentals of Plastic Waste Management	ISBN: 978-93-84871-18-5

Dr. Kapila Kumar and Ms. Prachie Sharma	Phytoproteomics: A new approach to decipher phytomicrobiome relationships in Book Titled: Phytomicrobiome Interactions and Sustainable Agriculture	ISBN: 978-1-119-64462-0
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Industrial Tie-ups

IBM has tied up with MRIU to jointly offer B.Tech. -Computer Science & Engg. with specialization in Cloud Computing, Business Analytics & Optimization, IT Infrastructure Management, Cyber Security & Forensics, Mainframe Technology, Open Source Software & Open Standards, Graphics and Gaming Technology. IBM primarily having worldwide business in Computer Hardware/Software, IT Services and IT Consulting shall provide LMS, Train the Teacher Programme, Student Projects, Expert Lectures, Industry connectivity for students and teachers to enable them to experience the live IT Environment. The arrangement shall help students to acquire domain skills in the most advanced areas of IT and preferential placements by IT companies. Students enrolled in this programme shall have access to an online Eco-system Platform namely Innovation Center for Open Standards enabling them to access course material, discussion forums, student projects, industry mentors and news-clips. IBM shall also issue certificates for various modules after their successful completion.

JBM Group, the largest Tier-1 supplier of automobile components and assemblies in India has associated with B.Tech Mechanical Engineering - Industry Integrated Programme of MRIU. JBM functional managers conducts classroom and lab training in 3rd and 4th year for specialized subjects. The students undergo 24 weeks Industry attachment and pass outs are provided

assured placement in JBM Group and associate companies subject to meeting specified academic benchmarks.

Mitsubishi Electric India Ltd, Factory Automation Lab, Robot Simulator setup with with six axis joint &240 degree in either direction. First Robotics Lab set up by MEI in the north India. SCADA Software for monitoring and analysis.

Starting collaborative M.Tech programme in Automation and Robotics

Intel, Starting collaborative programme in B.Tech-ECE with specialization in AI & IOT. The students shall acquire the latest skills in the cutting edge technologies using Intel Intelligent Systems Lab through INTEL experts and will get an opportunity to work on INTEL Xeon Processors, INTEL Parallel Studio Software, Intel System Studio Software, INTEL AI development Tools, INTEL AI Software Libraries, INTEL Frame Work Optimization, Movidius Neural Compute Stick and INTEL FPGA Boards.

Honda Motors, A full fledged Honda lab to provide hands-on job training to the students and faculty about Honda fleet of two wheelers (Scooters and Bikes) and a platform to take up research projects in emerging area in association with HMSI.

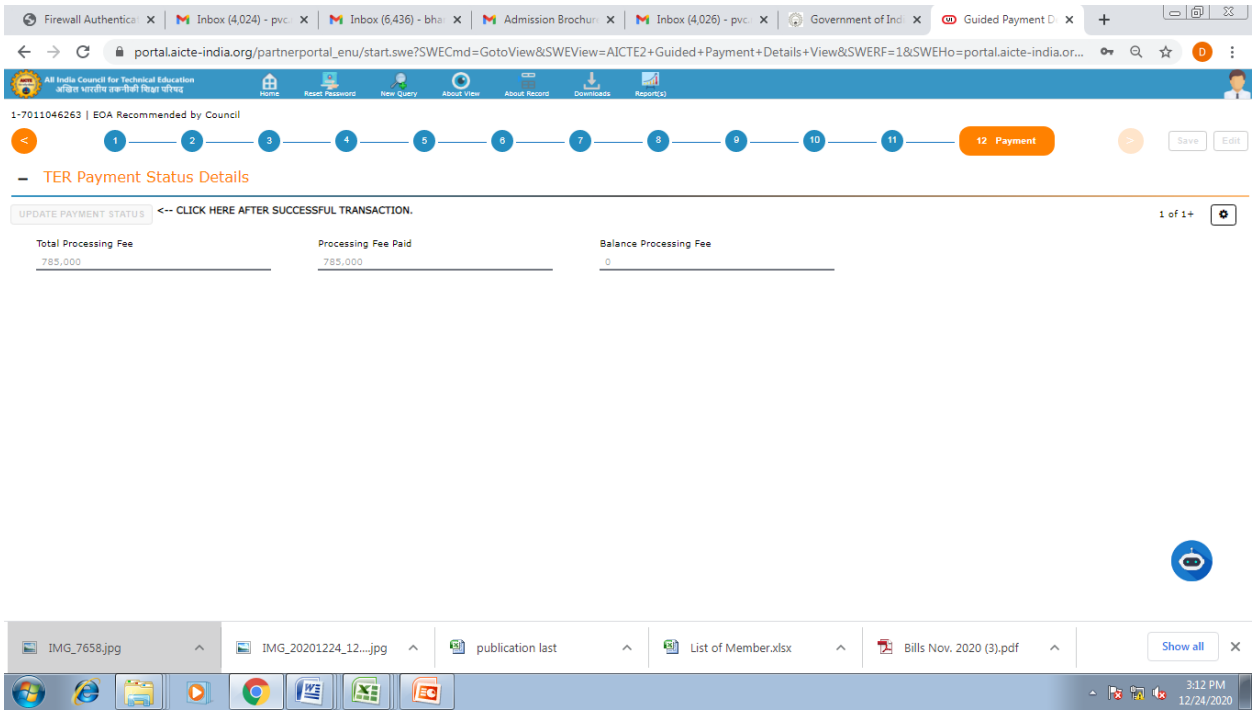
Infineon, The first centre developed by Infineon's Power Management & Multimarket (PMM) has been s**et up in India as "Infineon Centre of Excellence" in MRIIRS.**

- Provides training programs on power converter technologies to the students as well as for faculty members to enhance the practical skills. Based upon the test conducted after the trainings, they work on live project with Infineon Technologies.

Edgate Technologies, MoU with M/s EdGate Technologies Pvt. Limited, University program partner of Texas Instruments.

Texas Instruments has sponsored a specialized Embedded Lab, Power Electronics and Analog Kits

18. LoA and subsequent EoA till the current Academic Year



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19. Accounted audited statement for the last three years

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20. Best Practices adopted, if any
I. Entrepreneurial - Startup Ecosystem at Manav Rachna

MRIIRS has always been Research oriented and Innovation driven institutions. This stems from MREI's firm belief in creative thinking and creating better human beings. As a practice, Research & Innovation Clusters (RICs), Research Incubator (RI), Business Incubator (BI), Intellectual Property Rights (IPR) Cell and Centres of Excellence (CEs) are made a part of institutions under Manav Rachna Research Innovation & Incubation Centre (MRIIC) to bridge the gap between theory and practice so as to enable the students to improve their skills and set up their own horizon to do quality research even at undergraduate level in collaboration with academic partners and industries for the benefit of society.

MRIIC is a seminal initiative of MREI and is committed to encourage research, innovation and entrepreneurship to help the students to develop professional entrepreneurial ability and mindset to set up their own enterprises. MRIIC has been established in the Manav Rachna Campus to cater the needs of students and faculty members who are inclined towards research, innovation, novel ideas and are buzzing with out-of-box thinking.

At MRIIRS, we have a very strong entrepreneurial startup eco system. The story goes back to the year 2015 when Business Incubator established at the University campus-

1. **Inception of Manav Rachna Business Incubator**: Manav Rachna Business Incubator is an initiative towards nurturing the innovative instinct of the students, alumni and faculty of MREI. With an objective to cater to the needs of students and faculty members who are inclined towards research, innovation, novel ideas and to encourage research and entrepreneurship, MRBI is equipped with all types of design, fabrication, manufacturing facilities to facilitate the growth and success of startup and early stage companies. We at MRBI, also provide a good path to capital from angel investors, state governments, economic-development coalitions and other investors. At MRBI, business not only gets access to a potential buffet of capital choices, but also a host of intangible benefits including mentorship, expertise and networking.

   MRBI offers integrated, customized Innovation-Based Incubation support services. It scouts for ideation for development of business concepts and works for inculcating skills and competencies through capacity building/ training programs for evolving enterprises. Regulatory, financial and administrative help form part of the services, and networking opportunities with potential investors, practitioners and collaborators are endless.

   MRBI has developed an incubation policy to catalyze and promote development of knowledge based and innovation driven enterprises and is establishing its physical working space in more

than 5000 square feet area to cater to the requirements of its budding entrepreneurs. Working spaces with latest amenities including internet, Wi-Fi, conference rooms, multimedia projector, pantry, and recreation area are a part of MRBI infrastructure. The Incubatees are provided with latest prototyping equipment and software for developing their business ideas. MRBI also encourages, facilitates, promotes and safeguards scientific investigations and research. It has laid down an IPR Policy for promotion and support to innovators and for translating their creative works into IP.

We have four alumni and students startups at MRBI

i. Technoplanet Labs Pvt. Ltd.

ii. HyFn Games Pvt. Ltd.

iii. Parimukh Innovations Pvt. Ltd.

iv. Tricho Argonica Pvt. Ltd.

In addition to these, more than 80 alumni are running their ventures / startups.

2. NewGen IEDC, Manav Rachna: NewGen IEDC stands for New Generation Innovation and Entrepreneurship Development Centre. Manav Rachna started this programmes in August 2017. NewGen IEDC was catalyzed by National Science and Technology Entrepreneurship Development Board (NSTEDB), Department of Science & Technology (DST), Government of India with the financial grant of Rs 2.67 Crores for five years to inculcate the spirit of innovation and entrepreneurship amongst the young S&T students, encourage and support start-up creation through guidance, mentorship and support. Each student startup may get the support of 2.5 Lac Rs for the prototype development. The target of NewGen IEDC is to create 85 students startups in coming 5 years period of time.

NewGen IEDC, Manav Rachna is working towards speeding up the growth and success of startup and early stage companies. We at NewGen IEDC, link our startups to angel investors, state governments, economic-development coalitions and other investors. With the establishment NewGen IEDC, Undergraduate students, Post graduate students, doctoral students, alumni and faculties at Manav Rachna are capable to convert their business ideas into successful commercial or social ventures. It offers integrated, customized Innovation-Based Incubation support services for potential high investable entrepreneurs and enterprises. It scouts for innovative entrepreneurs, builds on ideation leading to develop a business concepts, provides skills and competencies trough capacity building/ training programs towards building effective enterprises.

NewGen IEDC have funded and supported 14:

1. Nature's Drop
2. Tackyon Motorsports Pvt. Ltd
3. Aarkaya Solar Solutions Pvt. Ltd.
4. Thap Krida
5. Naturoplast
6. Coating Wala (TFT Innovations)
7. Campus Dock

8. Medlife care
9. Vagabond Brains
10. Greenity
11. N2 Innovations
12. Night Labs
13. Ferox Technology
14. Smart Watch

3. NIMAT Project Funding:

To further promote & strengthen the culture of entrepreneurship in the area of Science and Technology, the University has been sanctioned with Rs 10.30 Lacs for conducting following programmes under DST-NIMAT Project for the year 2018-19.

1. Four Entrepreneurship Awareness Camps
2. One Entrepreneurship Development Programme
3. One Women Entrepreneurship Development Programme
4. One Technology based Entrepreneurship Development Programme and
5. One Faculty Development Programme

4. Start-up NIDHI Funding: Start-up NIDHI under the aegis of National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology, Govt. of India helps only the students with initial / ignition funding and hence is called Startup-NIDHI. It aims to financially support about 20 student startups every year under IEDC/NewGen IEDCs by providing Rs. 10.00 lakh to each of the selected teams.

The Aarkaya Solar Solutions Pvt. Ltd. A startup in Manav Rachna NewGen IEDC (Innovation Entrepreneur Development Center) granted RS. 2.5Lacs for the development of prototype has recently received the grant of RS. 10 Lacs under National Student Start-Up NIDHI scheme under the aegis of National Science & Technology Entrepreneurship Development Board (NSTEDB), Department of Science and Technology and Entrepreneurship Development Institute of India and Government of India, New Delhi. Company's Founder Shivendra Singh Chauhan and Mentor Dr. BM Bahal are working on Development of Smart Micro Grid Installation, Smart Agro-Photovoltaic Systems and Public Utility Charging Systems.

5. Entrepreneurship Development Initiatives

The Entrepreneurship Development Cell at the University is a central activity in association with National Entrepreneurship Network which conducts workshops, seminars & guest lectures on entrepreneurship regularly in association with NEN and NIESBUD. Amongst the recent initiatives following are the notable events conducted at a large scale:

- Zing Talk Series- Launched on 12th January, 2018
- Road to Start up- 31st October- 9th November, 2017
- Start-Up Jalsa 2016 on 22-23rd October 2016

The University has been running Entrepreneurship Development Courses under Pradhan Mantri YUVA Scheme. The University has setup Innovation Labs in more than 2000 sq. feet area and is in the process of establishing NewGen IEDC in 5000 sq. feet area where students work on designs and prototype development and establish their start up enterprises. It promotes collaborative works with Industries/R&D Institutes (under Research and Innovation Clusters) along with faculty participation. These initiatives aid in identification and development of Grass Root Innovators.

II Education Management System

Manav Rachna International Institute of Research and Studies (MRIIRS) has subscribed to a comprehensive Cloud based ERP / EMS (Education Management System) from M/s iCloud EMS, Pune which provides integrated solution to enhance and digitize the processes like Admissions, Fee, Student's academic life cycle, Transport, Hostel, Feedback, Grievance, Recruitment & HR processes and other administrative operations in the university through its web & mobile based applications.

Silent features of all the modules are listed below:

1. Admission Module:

- Online Application form
- Merit list preparation from all applicant data
- After verification of eligibility criteria, Student goes through few stages for confirmation of admission namely- Data scrutiny, uploading/verification of required documents, Temporary batch allocation, Payment of fees, Final seat allocation seat, automatic allocation of Temporary roll no., Generation of Admission letter & ID card and allocation of Hostel/Transport facility on ERP.
- After successful admission of student, System generates his ERP Login ID and Password which can be further accessed by them for viewing their academic performance and performing other activities.

2. Student and Employee Module:

- Admitted student data is well maintained/viewed with respective to Academic year, Department, batches, student status, Roll number etc fields.
- Batch/Institute transfer, Withdrawal and editing etc activities can be performed in student profile.
- Generation of student Permanent ID cards.
- On recruitment, details of new employee are also added on ERP.
- Employees use their employee code as username along with suitable password to login to the portal for all academic activities.

3. **Role Setup:**

- Module wise access rights to respective stakeholders like Teaching staff, departmental heads; administrative, Admissions, Hostel/Transport, Finance, HR and other Department staffs.

4. Student Course registration Module and course approval:

- Student needs to register to the courses offered to them under various academic baskets, which includes courses from current and previous semesters.

- Student can register for the courses within the set credit limit of the offered academic basket only.
- According to the course pre-requites, anti-requisites and other requirements, courses are approved by the department.

5. Faculty- course allocation, Timetable, Lesson Plan and Attendance Module:

- Students gets divided into Sections and further into Practical or TUT groups, thereafter courses are allocated to Faculty members according to specific batch/Section/Practical or TUT groups and Teaching load according to lecture per week is defined.
- Timetable can be prepared according to the defined teaching load. Tagging of alternate arrangement, extra lecture in TT free slots, making the lecture slot free are some of the added features offered. Date wise Timetable can be viewed by Students and Faculty members.
- Topic wise lesson plan for the whole session with proposed date is prepared by all faculty members and it can be viewed by students as well.
- Faculty member marks the Student attendance by selecting the topic taught in the lecture within 24 working hours of the lecture conducted otherwise marking of attendance gets freeze.
- Attendance of students engaged in extra circular activities are marked from “Event Attendance Module” separately.
- According to the attendance marked for the topic, system updates the conducted date for all the topics. Thus, generating report considering all parameters- Proposed date with the topic and actual conducted date.
- Lesson plan and student Date wise/Course wise/Aggregate attendance report can be viewed by Student and Faculty members.

6. Assignments and Academic Content Module:

- Faculty members uploads the various assignments for the allocated courses. It can be Viewed/Submitted by the students and afterwards Faculty members can View/Download/Evaluate/Reject the student’s submitted assignments. Marks/Remarks given by the faculty can be further viewed by the students.
- Uploaded course contents like syllabus, previous year question papers, Lecture notes; PPT’s, Links and videos can be viewed by students.

7. Examination Module:

- Parameter wise internal assessment marks is entered by course faculty and the same can be viewed by students.
- Question Paper of Internal assessment tests is created by mapping each question with the Cognitive Level (Bloom’s Taxonomy of (Cognitive) Learning Level) and Course Outcome, Question wise marks scored by the student is entered which furtherhelps inmeasuring the student’s attainment level of Course outcome.
- Attendance and Assignment marks are automatically picked from the respective module and gets converted to Maximum marks of the parameter.
- Students can view marks scored by them in every parameter, thus increasing transparency of their academic performance.

8. Feedback Module:

- Course-Faculty Feedback is been submitted by the students against the defined parameters two times within a semester.
- Other Feedback namely University Feedback or Exit forms are also taken for overall analysis and further necessary action to be taken on the data submitted by them.

9. Grievance Module:

Student/ Staff members can raise Grievance's from the portal and depending upon the nature of grievance, system allocates the issue automatically to the set competent authority at Level I. If the matter is not resolved by the Level I staff, the issue is escalated to the next Level mapped in the system against the same issue for timely solution of the issues.

10. Circular Module:

Important information/Circulars can be shared with all the stake holders- Students/Staff members by the competent authorities by posting them through Circular Module. It can be viewed/ Downloaded by Students and Staff members.

11. Hostel and Transport Module:

- Allocation of Hostel Beds and Transport vehicle according to facilities and Route/Stop opted by the student.
- Hostel and Transport ID Card can be generated from the system.

12. Staff achievements Module:

- Faculties can upload the Personal, academic and data related to Publications, Journals etc and the same can be viewed/downloaded for preparation of reports required for various accreditations, rankings, surveys and compilation of data for regulatory bodies.

13. Fee Module:

- Student can view/Pay (Through Credit card/Net banking) their previous balance amount with current Academic, Hostel/Transport or Miscellaneous dues.
- Generate/Print Fees Challan.
- View/Print Fee receipts for the Paid amount.

14. Recruitment form and HR Module:

- Candidates can apply at MREI by filling online recruitment form, collected data can be used for short listing, scheduling interview and sending E-Mail/SMS to the candidates.
- Staff members can view their daily attendance (IN and OUT timings), check their head wise total leave credited, apply leave, and check leave status along with balance.
- While applying leave, teaching staff needs to assign a substitute faculty of his allocated lectures for that particular day.

15. Reports:

There are numerous reports through which record is maintained for all academic and finance related activities. To name some reports are: Attendance Monitoring Report, Student Dynamics Report, Exam wise Internal Marks Report, Attendance Not taken Report, Today's Fees

Transaction Report, Student Outstanding Report, Hostel Outstanding Report, Transport Outstanding etc.

Note: Suppression and/or misrepresentation of information shall invite appropriate penal action.
The Website shall be dynamically updated with regard to Mandatory Disclosures