

1. Xebia

The Computer Science & Technology department offers B.Tech. Computer Science & Engineering with two specializations in Artificial Intelligence & Machine Learning and Cloud, DevOps & Automation, in collaboration with Xebia. Xebia is a specialized global IT Consultancy and Services company focusing on Enterprise development, Agile development, DevOps, and Outsourcing services. The passion for in-depth technology in combination with Lean, Agile and Scrum practices are Xebia's driving factors and competitive edge. The curriculum and courseware for specific course modules of the specialized programs has been developed by Xebia. Xebia organizes tech talks, seminars and technical webinars by Industry experts to connect students' learning with industry trends. Xebia also provides Internship support and Placement opportunities for students within Xebia and Client-Partner network.

Events/Activities

Year 2018-19

A. Student Workshops: 02

1. 6th march 2019- Agile Methodology by Mr. Ajay Kabra, Senior Director – Agile Transformation, Xebia,
Number of students Benefited: 31

2. 30th Jan 2019- Agile Methodology by Mr. Ajay Kabra, Senior Director – Agile Transformation, Number of students Benefited: 33

B. Train the Trainer Program: 04

1. 12th Dec to 14th Dec 2018: Problem-solving using Python by Mr. Deepak Mishra & Mr. Mridul Arora, Data Scientists, Xebia
Number of Faculty attended: 16

2. 12th Dec to 14th Dec 2018: Agile Software Development by Mr. Ajay Kabra, Senior Director Agile Transformation Consultant, Xebia
Number of Faculty attended: 14

3. 3rd July to 6th July 2018: Digital Product Engineering and Design Thinking
Number of Faculty attended: 15

4. 26th June to 29th June 2018: Data Science & Machine Learning
Number of Faculty attended: 17

C. Industrial visit:

1. 23rd Aug 2018: Xebia Gurgaon office, Student attended: 34, Faculty: 02

Year 2019-20:

A. Student Workshops: 03

1. 15th Nov 2019- Understanding Basics of Agile by Ms. Meetu Singh, Director – Agile

Consulting & Transformation, Xebia , Number of students Benefited: 33

2. 15th Nov 2019- Demystifying Artificial & Machine Learning by Mr. Debi Prasad Rath, Data Scientist, Xebia. , Number of students Benefited: 30

3. 14th Nov 2019- Demystifying Artificial & Machine Learning by Mr Divyanshu Sinha, Program Manager, Xebia, Number of students Benefited: 28

B. Train the Trainer Program : 02

1. June 10 – 14, 2019: Supervised Machine Learning by Mr. Nitin Gujral, an industry-acclaimed trainer in Machine Learning, Natural Language Processing and Cloud. Number of Faculty attended: 13

2. 27th June to 29th June 2019: Software Craftsmanship by Mr. Vipul Jain, Senior Consultant, Xebia. Number of Faculty attended: 6

Year 2021-22

1. Student Internship: 17 students (10 students from CSE(DTE specialization) and 7 students from CSE(DSML specialization)) completed their internship with Xebia.

2. Quick Heal

Computer Science & Technology Department, MRU offers B.Tech. Computer Science & Engineering with specialization in Cyber Security & Threat Intelligence, in collaboration with Quick Heal. Quick Heal is a leading provider of Security Software Products and Solutions, under the widely-recognized brand names 'Quick Heal' and 'SEQRITE' across various operating systems and devices. With the growing use of computer and information technology in various aspects of daily life and at a point when there are growing concerns about cyber security, it is paramount that we wake up and take steps to protect cyber infrastructure and this is only possible through training in various domains of Cyber Security. The curriculum for specialization courses has been designed by Quick Heal. Cyber security experts from Quick Heal train the students on these courses, giving the exposure to real case studies in this domain. Quick Heal also supports students in Internship and Placement.

Events/Activities:

1. Curriculum and courseware for specific course modules
2. Industry Interface: Technical member of QuickHeal delivers courses to students, Duration 5hrs
Student benefited: CSTI 1year sem (36 Students) , CSE 2nd year: (32 Students) per semester
3. Faculty training every semester, technical talk, seminar, placement opportunity

3. AWS

Computer Science & Technology Department, MRU has adopted Cloud Computing curricula from the Amazon Web Services (AWS) Educate global initiative into its mainstream university syllabus to help

develop the next generation of cloud professionals. The cloud computing content from AWS Educate has been offered as part of Bachelor of Technology (B.Tech.) in Computer Science and Engineering program, since 2020.

Events/Activities:

Student Certifications: 2021-2022

Number of students benefited: 109

FDP 28th April 2020: 1, number of faculty members attended : 20

4. Infosys

Department of Computer Science & Technology, MRU has been associated with Infosys since 2009 for training the students & faculty members under the purview of the Infosys Campus Connect Programme. Moreover, Students are offered a lot of opportunities for competitions, internships, **Infosys springboard** online courses and learning pathways which provide industry ready content to the students . Their courses are recommended by AICTE also.

Events/Activities:

Year 2019

1.Industrial Visit of CSE and ECM Students to Infosys, AUGUST 15 2019

Number of students benefited: First-year students CSE

Year 2020

1. Webinar-based FEP on Python using INFYTO Platform July 14th, 2020, Faculty Benefitted - 3

5. Artificially Intelligent Workforce

AIW has collaborated with CST MRU under “ No Code Clique” which will be referred to as a program for students who will be able to use AIW Builder, get access to variety of industries, case studies and use a no code platform to deploy AI workers. This MOU would lay down opportunities for student internship/ placement, projects, R&D in the field of Machine Learning, Neural networks, Big Data and Blockchain Technology.

6. Coding Ninja

Manav Rachna University has collaborated with **Coding Ninjas** to provide students with the exposure to the Coding rounds of companies like Amazon, Microsoft, etc. The” Coding Prep” course currently being run, includes the fundamentals, applications and advanced problems.

Events/Activities:

Year 2022

1. Coding Ninja Orientation Session for the first year students was conducted on 31st August 2022 at 12:00 Participants - Ist Year Students

2. Webinar on “How to Prepare for Product-Based Companies?” on 5th February 2022 -
Participants - 80 Students

7. **NPTEL:** NPTEL: Provides e-learning through video lectures and web courses in Engineering, Science, Technology, Management and Humanities equipped with internship and employment opportunities.

Events/Activities:

2019-2020

No. of MOOC courses approved :-31+ 17=48

No. of students certifications:-190

No of faculty certifications:- 05

Total Enrollment:- 1131+

2020-2021

No. of MOOC courses approved :-27+13

No. of students certification:-24

no of faculty certification:- 0

Total Enrollment:-277+73=350

2021-22

No. of MOOC courses approved :-42+21

No. of students certification:-144

No of faculty certification:- 0

Total Enrollment:-172+73=245

8. Virtual labs: IIT Delhi for Virtual Labs

A project initiated by MHRD, GoI, under the aegis of National Mission on Education through Information and Communication Technology (ICT). Provides remote-access to laboratories in various disciplines of science and engineering for students at all levels from under-graduate to research.

Events/Activities

Year 2019

1. Virtual Labs workshop on 30th January 2019 in association with IIT Delhi

Number of Participants -200 students + 12 Faculty Members

2. Virtual Labs workshops MRU organized in association with IIT Delhi on September 9th, 2019 .

Year 2020

1. Manav Rachna University was declared as Nodal Centre for Virtual Labs, in association with IIT, Delhi, on 10th April, 2018

Number of Participants - 100 students + 10 faculty members

2. Online training program for faculty members on 16th May 2020

Number of Participants -45 faculty members

3. session on “Awareness of Virtual “ was conducted for new entrants on 25th Sep 2020 - Number of participants - 150

9. **Sofocle Labs:** Computer Science & Technology Department, MRU collaborated with **Sofocle Labs.** in the areas of enablement of Blockchain Learning and Ecosystem Development. A Blockchain Center of Excellence (CoE) will be set up at MRU campus with a vision to create Blockchain HUB in North India, acting as a center for deep & industry-focused learning, an incubator for new ideas. Sofocle will offer Blockchain courses for students and certification. Students will have access to remote Blockchain Lab and code repositories. Sofocle Labs will host Blockchain events, conferences, and Hackathons.

Events/Activities

Year 2022

Orientation session of Sofocle Labs held on 9 Feb 2022