



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, UNA [HP]

An Institute of National Importance under MHRD
NIT Campus, Hamirpur [HP]-177005

Contact No.: 01972-224378

Website: www.iiitu.ac.in



21, Aug.'20

INSTITUTE REPORT

A. Establishment of the Institute

The Institute was established in the AY 2014-15 and the first batch of students have passed out in the year July 2018 and have been awarded degrees in the first Graduation Day held on 29, Mar.'19.

The Second batch of students have passed out in the year July 2019 and they have been awarded the degree during the Second Convocation held on 30, Nov.'19.

Currently the institute has a student strength of 437 out of which 390 and 47 are male and female students respectively.

The II, III, and Final year students are housed in the NIT Campus, Hamirpur and the I year students are housed in its Transit Campus-II at Chandpur, Haroli, Una.

B. Permanent Campus

The Institute has been allotted, approximately 56 acres of land in village Saloh, Una (HP). The work order for construction of academic, admin blocks, two boys hostels, one girls hostel, one transit hostel, and Director's Residence has been issued to the contractor by CPWD.

The construction work has commenced in the month of Dec.'19. All buildings are expected to be handed over by May 2021 with a few months delay due to COVID-19 pandemic.

Three branches of Engineering, viz, Computer Science and Engineering, Electronics and Communication Engineering, and Information Technology will be accommodated in the Permanent Campus with a total strength of 750 students. It is expected that the classes of AY 2022-23 may be commenced in the Permanent Campus.

C. Appointment of Faculty members on Regular Scale

Applications were called for recruitment of faculty members on regular scale and the scrutiny of applications has been completed. As the ratio of provisionally shortlisted candidates is 1:34, written test and interview are required to be conducted to bring down the ratio to 1:5. But due to COVID-19 lockdown it is delayed and it will be conducted once the lockdown is lifted unconditionally.

Contd. ... (2)

D. Faculty

Faculty members are appointed to teach the courses with the Student to Teacher Ratio of 15:1.

Currently, 19, 11, and 10 faculty members are working in School of Computing, School of Electronics, and School of Basic Sciences.

E. Registrar

Prof. Amar Nath Gill, Professor of Emeritus of Mathematics, SoBS, is the Registrar in-charge of the Institute from the month of June'20.

F. New Curriculum Design

Current II and I year students are studying the new curriculum which has the following highlights:

- Stream Oriented Electives
- One full semester (VI) dedicated to industry internship
- Practical, Project, and Product (PPP) Orientation
- Relative Grading
- Credit transfer from online courses
- Less core subjects and more electives
- Enhancement of Skill set for better employability

G. Activities of Various Associations

Various Technical, Cultural, and sports Associations were inaugurated last year in the month of Mar.'19. During the AY 2019-20 first year students were also part of these associations, such as, FORCE, AVESH, HASH, SURGE, AMOGH, YALGAAR, EVMaC, Data Science, and InfoSec.

I. MoU with Himachal Pradesh University (HPU) and Shri Lal Bahadur Shastri Government Medical College & Hospital, Nerchowk, Mandi.

Already three MoUs have been executed with IIT Mandi, IIT Ropar, and Himachal Pradesh Technical University (HPTU).

This year two more MoUs were executed with the following institute and University:

- i) Shri Lal Bahadur Shastri Government Medical College & Hospital, Nerchowk, Mandi (HP).
- ii) Himachal Pradesh University, Shimla (HP)

The highlights of the MoU are as follows:

1. Skill Development Program
2. Expert/Guest Lectures
3. **Placement of Students**

Both the parties have also agreed to share the common placement opportunities during on campus placement drives by the host institutes for their mutual benefits.

Contd. ... (3)

H. On Going Sponsored Projects

- i) A project titled, “Nagarik Rog Pratirakshak: Unified Smart Immunization Coverage Monitoring and Analysis (UniSICMA)” Sponsored by Biotechnology Industry Research Assistance Council (BIRAC), New Delhi is being executed since Feb.’19 in collaboration with SSNCE, Chennai, Tamil Nadu and our institute at an approximate value of Rs.106/- lakhs with seven Junior Research Fellows.

During the Technical Advisory Group Meeting held on 24, July’20, a multilingual mobile app to capture the immunization details of child and mother for use by village ANMs with minimal or no data entry, was successfully demonstrated.

- ii) A project titled, “Development of nanomaterial immobilised enzymes system for the production of food-grade esters”, is sponsored by Australian High Commission, New Delhi with a value of Rs.7.75/- lakhs.
- iii) A Project Titled, “Nanobiotechnological route for improving the enzymatic saccharification of forest waste of Himachal Pradesh”, is sponsored by Himachal Pradesh Council for Science, Technology & Environment with a value of Rs.6.15/- lakhs.

I. Project Proposal submitted to DST under FIST Program

A project titled, “Center For Evolving Technologies: A proposal on Research Infrastructure Development” has been submitted to DST, under FIST 2020 program at a cost of Rs.2.6/- Cr.

J. Orientation Program to I year students

Seventeen days Orientation program was arranged from 05-21, Aug.’19 for I year students. 27 activities were conducted by 14 external resource persons alongwith all the internal faculty and non faculty members. Some of the activities were as follows:

- Awareness about the new curriculum, grading, rules of the institute, availability of scholarships, online course, etc.
- Engineer as a Designer
- Awareness on Women and Men Safety and Cyber Security
- Awareness on Health, Mental Health, and Hygiene
- Universal Human Ethics and values
- Entrepreneurship
- Upcoming Trends and challenges in Technology
- Plantation drive

K. Conduct of Digital Classes

The Institute was closed on 14, Mar’20 due to COVID-19 pandemic lockdown. By then 60% of the syllabi have been completed. It was decided to conduct five digital weeks in which classes were conducted through online video conferencing.

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Some (20 to 30%) of the students complained that they suffer from the last mile connectivity problem with nil or poor bandwidth connection along with frequent disruptions of EB power outage. So the lecture materials prepared in text (pdf) by the faculty members were given to the students.

The last working day for the even semester of AY 2019-20 was 26, June'20.

L. International Workshop

A three days International Workshop on Big Data Analytics was arranged by the institute during 28-30, May'20.

The Principal Investigators, Prof. R. Kanchana and Prof. S. Selvakumar of the BIRAC, DBT sponsored project, "Nagarik Rog Pratirakshak: Unified Smart Immunization Coverage Monitoring and Analysis (UniSICMA)" hosted this International workshop for three days with two experts, Dr. Jianwu Wang participating from University of Maryland, USA and Dr. Alex Bordei, Vice President Product and Engineering, Lentiq, London, UK, and two experts Dr. Vijay Srinivas, Director of Data Sciences, and Mr. Navinder Pal Singh Brar, Senior Software Engineer, Walmart Labs, Bengaluru, Karnataka and one expert Dr. Spandana, Education Technical Evangelist, Mathworks India, Bengaluru, and one more expert Mr. Deepak Suresh Machine Learning Engineer, Julia Computing, Chennai, Tamil Nadu, India.

The workshop was conducted in order to spread the knowledge gained so far in handling the 'Big Data' to all the research and technical community.

The response to the workshop was overwhelming with more than 900 participants, thanks to the need of the hour due to international pandemic and lockdown, which otherwise in person workshop with such a 'BIG' number would not be possible and thanks to the Video Conferencing platform which has a limitation of 1000 participants with its premium professional edition.

The participants got benefitted by this workshop by attending all the sessions without fail.

M. Workshop and hands on with interconnecting devices

Two days workshop and hands on with interconnection devices, such as, switches, routers, etc., by Network Bulls was organized during 02-03, Nov.'19 in which 60 students participated.

N. Publishing of Books/ Chapters

1. Dr. Madan Lal Verma, Assistant Professor in Biotechnology of SoBS has authored the following two books and one chapter:
 - a. Nanobiotechnology for sustainable bioenergy and biofuel production
 - b. Biotechnological production of bioactive compounds
 - c. A chapter in the book Micobial production of Omega-3 polyunsaturated fatty acids

Contd. ... (5)

The above books are to be published by CRC Press, Francis and Taylor, USA, 2020, Elsevier Press, Netherlands Europe, 2019, and Elsevier Press, Netherlands, Europe, respectively.

2. **S. Selvakumar** and **N.G. Bhuvaneswari Amma**, "Computational Intelligence Methods for Anomaly based Detection of Distributed Denial of Service Attacks", DDoS Attacks: Detection and Defense Mechanisms, Nova Publishers, 2020 (Accepted for publication).
3. **Sunil Sangwan**, Narayan Chandra Nayak (2019). "Microfinance movement in Odisha: An investigation of Mission Drift" in B. Pattnaik (Ed.), Social and Political Movements in Odisha- Past and Present (Accepted).
4. R Mulaveesala, G Dua and **V Arora**, Active thermal wave imaging for non-destructive testing and evaluation of concrete structures, IntechOpen Limited, UK, 2019.
5. **N. Katal** and S. Singh, "Metaheuristics-based Multi-objective Design of Robust Process Control Systems" in Book Title: *Emerging Intelligent Techniques in Engineering & Technology*, AAP & CRC Press. 2020. (In press).

O. Journal and Publications

The number of Journal and Conference Publications of our faculty members are as follows:

AY	Journal	Conference
2018-19	10	10
2019-20	36	24

P. Patents

The following two patents have been filed by **Dr. Vanita Arora** of SoE:

- a) R Mulaveesala, V Arora and G Dua, Thermal imaging for identifying a defect in a material, Application no. 201911012086, LRN no: P3591-IN, 27/03/2019.
- b) US Patent Application Number: 16/830,131, Date of Filing: 25 March 2020

Q. Participation in FDP

All the faculty members were sponsored to attend the following FDP/Workshops conducted by IIT Mandi:

Sl. No.	Date	Activity	Topic
1.	24-25, May'19	Two days Workshop	Curriculum Design
2.	08-12, July'19	Five days FDP	Practicum-I, II, III, IV and Lab assignments

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R. Guest Lectures and Workshops

The following guest Lectures and workshops were conducted:

Sl. No.	Date	Title	Resource Person
1.	23, April'19	Phase Locking of Large Network	Dr. Viswa Pal Dept. of Physics, IIT Ropar
2.	23-24, Aug.'19	Biotechnology Popularization and Skill Development	Dr. Madan Lal Verma SoBS, IIIT Una
3.	31, Oct.'19	Shaping Smart Machine Buddies	Dr. Saurav Karmakar West Bengal
4.	13, Nov.'19	Campus Recruitment Trends	Prof. A. K. Bakthavatsalam Head, TPO, NIT Tiruchirappalli
5.	09-11, July'20	Yoga for Health for Students	Co-ordinated by Prof. R. Kanchana
6.	11-12, July'20	Yoga for Health for Faculty and Staff	Co-ordinated by Prof. R. Kanchana

S. Part time PhD Program

Six Faculty Members have registered for the Part time PhD program.

T. Certified Virtual Classroom Teacher Program

All Faculty members have successfully attended one or more online courses pertaining to their field of interest for which the institute extended its financial support. Further all of them have been qualified to be the Virtual Class Teacher which is very much essential during this COVID-19 pandemic.

U. Other achievements by faculty members

The faculty members do contribute to the institute by arranging seminar talks by external experts in their subject choices. Their expertise have been recognized by reputed journals for review of technical manuscripts. Our faculty members have been invited to deliver expert lectures too!

V. First Prize in Smart India Hackathon

The following students represented our institute in the Smart India Hackathon competition and won the First prize:

- | | | |
|--------------------|---|--------------|
| 1) Prashant Sengar | : | CSE III Year |
| 2) Ritesh Singh | : | CSE III Year |
| 3) Aryan Verma | : | CSE III Year |
| 4) Mohit Saini | : | CSE III Year |
| 5) Niti Kaur | : | CSE II Year |
| 6) Vishal Pal | : | ECE II Year |

Contd. ... (7)

W. Inter IIIT Sports Meet

87 students participated in various events of Inter IIIT Sports meet held at IIITDM Jabalpur during Feb.'20. Mr. Yogesh Shahi won three medals, one in each, Gold, Silver, and Bronze. Mr. Tejendra Saini won Bronze medal.

Further, Mr. Yogesh Shahi emerged as the Overall Athletic Champion in the Sports Meet 2020 of the Institute and bagged the Trophy. Among the girls Ms. Ankita Kapoor won two gold medals in 200 m and 800 m running event.

X. Prestigious Internships

Five students, viz., Priyesh Kumar, Prateek Bhardwaj, Abhishek Aggarwal, Shivam Singh, and Anubhaw Bholotia got their internships in Google Summer of Code, Microsoft, Adobe, Caribbean Company, and Amazon, respectively.

Y. Appreciations

Ms. Arpana Mehta of Final Year attended Grace Hoppers Celebrations India 2019 during 06-08, Nov.'19, Bengaluru, Karnataka state, which is the Asia's largest gathering of Women Technologies.

Mr. Praveen Kumar and Mr. Prateek, both I year students were appreciated for their participation in Tech festival organized by IIT, Karaghpur.

Z. Ek Bharat Sreshta Bharat (EBSB)

IIIT Una has been paired with IIIT, Kottayam, Kerala under EBSB program by MHRD. The objectives of EBSB are as follows:

- To exchange 50 students
- To exchange faculty members
- To become aware of the culture of the paired state
- To organize food festival of the paired state
- To arrange for Learning of the language of the paired state
- To translate the original works such as poem/book in the language of paired state
- To visit the places of importance in the paired state

It is planned to depute 50 students, 17, 17, and 16 from III, II, and I year respectively for the exchange program. But due to COVID-19 lockdown the exchange program is suspended.

AA. Celebrations

The institute celebrated the following festivals and days in order to comply with the directions of MHRD:

Sl. No.	Date	Activity
1.	15, Jan.'19	World Hindi Day
2.	26, Jan.'19 and 26, Jan.'20	India's Republic Day
3.	28, Feb.'19	National Science Day
4.	08, Mar.'19 and 08, Mar.'20	International Women's Day
5.	11, May'19	National Technology Day
6.	21, June'19	International Yoga Day
7.	29, Aug.'19	Fit India Movement
8.	01-14, Sept.'19	Swachhata Pakhwada 2019
9.	05, Sept.'19	Teacher's Day
10.	11, Sept.'19-27, Oct.'19	Swachhata Hi Seva
11.	14, Sept.'19	Hindi Diwas
12.	01. Oct.'19	Swachhata Diwas Pledge
13.	07, Oct.'19	Saraswati Pooja
14.	31, Oct.'19	Rastriya Ekta Diwas
15.	04, Nov.'19	Vigilance Awareness Week 2019 "Integrity Way of Life" By Sh.Arjit Sen Thakur, (IPS) S.P. Hamirpur
16.	11, Nov.'19	National Education Day
17.	19-25, Nov.'19	Communal Harmony Campaign Week
18.	26, Nov.'19	Constitution Day/ National Education Day
19.	IIIT Una has been paired with IIIT, Kottayam, Kerala under Ek Bharat Sreshta Bharat (EBSB) program by MHRD	

AB. Placements

Out of the 37 students 29 were placed in on campus recruitment. 02 students are interested in higher studies and 06 students are not interested in placement and would like to pursue their own career.

The Maximum, Minimum, and Average package has been Rs.14/-, Rs.05/-, and Rs.8.66/- lakh per annum respectively.

Our students have been placed in a total of thirteen companies.



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ANNEXURE-I LIST OF GRADUANDS B. TECH. 2016-20 BATCH SCHOOL OF COMPUTING

Sr. No.	Roll No	Name
1.	IIITU16101	Manit Choudhary
2.	IIITU16102	Mayank Methi
3.	IIITU16103	Anubhaw Bhalotia
4.	IIITU16104	Aditya Shukla
5.	IIITU16105	Niharika Gupta
6.	IIITU16106	Anjali Garg
7.	IIITU16107	Sujeet Kumar Singh
8.	IIITU16108	Kartikey Dixit
9.	IIITU16109	Abhijeet Kumar Rai
10.	IIITU16110	Vinod Jatav
11.	IIITU16111	Monty Shyama
12.	IIITU16112	Shivani Joshi
13.	IIITU16113	Mratyunjay Soni
14.	IIITU16114	Pushkar Pathak
15.	IIITU16115	Ratik Jindal
16.	IIITU16116	Amit Yadav
17.	IIITU16117	Vartika
18.	IIITU16118	Shubham Kamboj
19.	IIITU16119	Shiv Prakash Jetwal
20.	IIITU16120	Arpana Mehta
21.	IIITU16122	Anurag Chandel
22.	IIITU16123	Anurag Bansal
23.	IIITU16124	Kaushal Kishore
24.	IIITU16125	Udit Gulati
25.	IIITU16127	Deepak Kumar

SCHOOL OF ELECTRONICS

Sr. No.	Roll No	Name
1.	IITU16201	Mohd Aman
2.	IITU16202	Meenal Ranta
3.	IITU16203	Mayank Malu
4.	IITU16204	Devesh Singh
5.	IITU16205	Amit Kumar Singh
6.	IITU16206	Sarita Agarwal
7.	IITU16207	Kanchan
8.	IITU16208	Saurabh Johri
9.	IITU16209	Aman Saxena
10.	IITU16210	Shyam Sunder Sharma
11.	IITU16212	Shyam Sunder Meena
12.	IITU16213	Amit Kumar

The following are the medal winners:

Program	Name	Roll No	CGPA	Medal
B.Tech. CSE	Mr. Anubhaw Bhalotia	IITU16103	9.42	Gold
	Ms. Shivani Joshi	IITU16112	9.15	Silver
	Mr. Kaushal Kishore	IITU16124	9.04	Bronze
B.Tech. ECE	Mr. Aman Saxena	IITU16209	8.88	Gold
	Mr. Shyam Sunder Sharma	IITU16210	8.81	Silver
	Ms. Meenal Ranta	IITU16202	8.17	Bronze



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ANNEXURE-II PLACEMENT STATISTICS SCHOOL OF COMPUTING

Sr. No.	Roll No	Name	Company
1.	IIITU16101	Manit Choudhary	Payme
2.	IIITU16102	Mayank Methi	L&T Infotech
3.	IIITU16103	Anubhaw Bhalotia	Infoedge
4.	IIITU16104	Aditya Shukla	L&T Infotech
5.	IIITU16105	Niharika Gupta	L&T Infotech
6.	IIITU16106	Anjali Garg	GreyB
7.	IIITU16107	Sujeet Kumar Singh	GreyB
8.	IIITU16108	Kartikey Dixit	GreyB
9.	IIITU16109	Abhijeet Kumar Rai	Sourcefuse
10.	IIITU16110	Vinod Jatav	NOT INTERESTED
11.	IIITU16111	Monty Shyama	CyberSrc
12.	IIITU16112	Shivani Joshi	L&T Infotech
13.	IIITU16113	Mratyunjay Soni	Cvent
14.	IIITU16114	Pushkar Pathak	Samsung
15.	IIITU16115	Ratik Jindal	Samsung
16.	IIITU16116	Amit Yadav	Jugnoo
17.	IIITU16117	Vartika	Preparing for UPSC
18.	IIITU16118	Shubham Kamboj	GreyB
19.	IIITU16119	Shiv Prakash Jetwal	MIND
20.	IIITU16120	Arpana Mehta	Samsung
21.	IIITU16122	Anurag Chandel	UHG
22.	IIITU16123	Anurag Bansal	Jugnoo
23.	IIITU16124	Kaushal Kishore	L&T Infotech
24.	IIITU16125	Udit Gulati	SMC
25.	IIITU16127	Deepak Kumar	NOT INTERESTED

SCHOOL OF ELECTRONICS

Sr. No.	Roll No	Name	Company
1.	IIITU16201	Mohd Aman	TT Consultants
2.	IIITU16202	Meenal Ranta	Jugnoo
3.	IIITU16203	Mayank Malu	NOT INTERESTED
4.	IIITU16204	Devesh Singh	MIND
5.	IIITU16205	Amit Kumar Singh	NOT INTERESTED
6.	IIITU16206	Sarita Agarwal	Samsung
7.	IIITU16207	Kanchan	NOT INTERESTED
8.	IIITU16208	Saurabh Johri	Preparing for higher studies
9.	IIITU16209	Aman Saxena	GreyB
10.	IIITU16210	Shyam Sunder Sharma	L&T Infotech
11.	IIITU16212	Shyam Sunder Meena	NOT INTERESTED
12.	IIITU16213	Amit Kumar	Samsung

Max Package : Rs.14/- Lakhs Per annum
Min Package : Rs.05/- Lakhs Per annum
Average Package : Rs.8.66/- Lakhs Per annum

PLACEMENT OFFICER



ANNEXURE-III

ACHIEVEMENTS OF FACULTY MEMBERS

I. International Journals

1. Elakkiya E. and **Selvakumar S.**, “GAMEFEST: Genetic Algorithmic Multi Evaluation Measure based Feature Selection Technique for Social Network Spam Detection”, *Multimedia Tools and Applications*, Springer, 2019.
2. BhuvaneswariAmma N.G. and **Selvakumar S.**, “A Statistical Class Center based Triangle Area Vector Method for Detection of Denial of Service Attacks”, *Cluster Computing*, Springer, 2020.
3. BhuvaneswariAmma N.G. and **Selvakumar S.**, “Anomaly Detection Framework for Internet of Things Traffic using Vector Convolutional Deep Learning Approach in Fog Environment”, *Future Generation Computer Systems*, Elsevier, Vol. 113, 2020, pp. 255-265.
4. S. Priya and **S.Selvakumar**, “Detection of Phishing Attacks using Probabilistic Neural Network with a Novel Training Algorithm for reduced Gaussian Kernels and Optimal Smoothing Parameter Adaptation for Mobile Web Services”, *International Journal of Ad Hoc and Ubiquitous Computing*, Inderscience, 2020 (Accepted for publication).
5. B. S. Dhanya, A. Mishra, A. K. Chandel and **M. L. Verma**, “Development of sustainable approaches for converting the organic waste to bioenergy”, *Sci. Total Environ.*, vol 723, pp138109, 2020.
6. **M. L. Verma**, B.S. Dhanya, Sukriti, M. Thakur, J. Jeslin and R. Kushwaha, “Carbohydrate and protein based biopolymeric nanoparticles: current status and biotechnological applications”, *Int. J. Biol. Macromol.*, vol. 154, pp 390-412, 2020.
7. A. Arora, P. Nandal, J. Singh, and **M.L. Verma**, “Nanobiotechnological advancements in lignocellulosic biomass pretreatment”, *Mater Sci. Energy Technol.*, vol. 3, pp 308-318, 2020.
8. **M. L. Verma**, S. Kumar, A. Das, J. S. Randhawa, and M. Chamundeeswari, “Chitin and chitosan-based support materials for enzyme immobilization and biotechnological applications”, *Environ. Chem. Lett.*, vol. 18, pp 315-323, 2019.
9. **G.S. Grewal** and B.S. Rajpurohit, “Energy management by the role of energy-efficient machines and rescheduling of transformer load in steel rolling mill: A case study”, *Journal of Institution of Engineers: Series-B Springer*, Vol. 100, pp. 277-284, February 2019. <https://doi.org/10.1007/s40031-019-00371-6>

10. **Gurpreet Kaur** and Gurmeet Kaur, "Nonlinearities mitigation with Fuzzy Neural Networks using a machine learning algorithm in a CO-OFDM system", *IET Optoelectronics, IET*, vol. 1, issue 1, pp. 44 – 51, 06 February, 2020. Doi: 10.1049/iet-opt.2018.5116.
11. **N. Katal** and S Narayan. "Optimal design of QFT controller for pneumatic servo actuator system using multi-objective genetic algorithm." *International Journal of Advanced Intelligence Paradigms*, vol. 15, no. 2, pp. 183-206, 2020. (SCOPUS)
12. P. Antil, S. Singh, S. Kumar, A. Manna and **N. Katal**, "Taguchi and multi-objective genetic algorithm-based optimization during ECDM of SiCp/glass fibers reinforced PMCs", *Indian Journal of Engineering & Materials Sciences*, vol. 26, no. 3&4 , pp. 211-219, 2019. (SCI)
13. **C. Kumar** and K. Rajawat, "Network Dissensus via Distributed ADMM," in *IEEE Transactions on Signal Processing*, vol. 68, pp. 2287-2301, 2020, doi: 10.1109/TSP.2020.2984895.
14. M. L.Verma, B.S.Dhanya, **Sukriti**, V. Rani, M. Thakure, J. Jeslin, R. Kushwaha, "Carbohydrate and protein based biopolymeric nanoparticles: Current status and biotechnological applications" *International journal of biological macromolecules*, vol. 154, pp. 390-412, 2020.
15. A. Das, **Sukriti**, and M. L. Verma, "Contributions of Omics approaches for the detection of food adulterants", in *Biotechnological Approaches in Food Adulterants*, Boca Raton: CRC Press, 2020, <https://doi.org/10.1201/9780429354557>. (Book chapter)
16. **BhuvaneswariAmma N.G.** and Selvakumar S., "A Statistical Class Center based Triangle Area Vector Method for Detection of Denial of Service Attacks", *Cluster Computing (Springer)*, 2020, DOI: 10.1007/s10586-020-03120-3.
17. **BhuvaneswariAmma N.G.** and Selvakumar S., "Anomaly Detection Framework for Internet of Things Traffic using Vector Convolutional Deep Learning Approach in Fog Environment", *Future Generation Computer Systems (Elsevier)*, Vol. 113, 2020, pp. 255-265, DOI: 10.1016/j.future.2020.07.020.
18. **Sunil Sangwan**, Narayan Chandra Nayak, "Factors influencing the borrower loan size in microfinance group lending: A survey from Indian Microfinance Institutions", *Journal of Financial Economic Policy, Emerald*, 2020. DOI 10.1108/JFEP-01-2020-0002. (Scopus, ABDC-B)
19. **Sunil Sangwan**, Narayan ChandraNayak, "Outreaching the poor under Microfinance Institutions in India: Rhetoric versus realities", *Journal of Public Affairs, Wiley*, 2020.DOI:10.1002/pa.2161. (Scopus, ABDC-B).
20. **Sunil Sangwan**, Narayan Chandra Nayak, DebarataSamanta, " Loan repayment behavior among the clients of Indian Microfinance Institutions: A household level investigation", *Journal of Human Behavior in the Social Environment, Routledge*, 30 (4), 474-497, 2020. (Scopus)

21. **Sunil Sangwan**, Narayan Chandra Nayak, “Do outreach approaches differ between Self-Help Group-Bank Linkage and Microfinance Institution-based microfinance? Evidences from Indian states”, *Journal of Social and Economic Development*, Springer, 21, 93-115,2019. (ABDC-C).
 22. Mulaveesala, R., **Arora, V.**, and Rani, A., Coded thermal wave imaging technique for infrared non-destructive testing and evaluation,(2019), *Journal of Nondestructive testing and Evaluation*, 34(3), pp. 243-253.(Scopus Indexed/SCI/SCI Expanded Journal).
 23. **Arora, V.**, Mulaveesala, R., Rani, A., and Sharma, A., Digitized frequency modulated thermal wave imaging for non-destructive testing and evaluation of glass fibre reinforced polymers, (2019), *Journal of Nondestructive Testing and Evaluation*, 34(1), pp. 23-32.(Scopus Indexed/SCI/SCI Expanded Journal).
 24. **Arora, V.**, Mulaveesala, R., Dua, G., and Sharma, A., Thermal non-destructive testing and evaluation for sub-surface slag detection: Numerical modelling’ (2020) *Insight: Non-Destructive Testing &Condition Monitoring*, 62(5), pp. 264-268.(Scopus Indexed/SCI/SCI Expanded Journal).
 25. Sharma, A., Mulaveesala, R., and **Arora, V.**, Novel analytical approach for estimation of thermal diffusivity and effusivity for detection of osteoporosis (2020) *IEEE Sensors Journal*, 20(11), pp. 6046-6054.(Scopus Indexed/SCI/SCI Expanded Journal).
 26. Siddiqui, J. A., Patil, S., Chouhan, S. S., Wuriti, S., **Arora., V.**,and Mulaveesala, R., An efficient pulse compression favourable thermal excitation scheme for non-destructive testing using infrared thermography (2020) *Electronics Letters*, (accepted).(Scopus Indexed/SCI/SCI Expanded Journal).
- *Science Citation Index (SCI).**
27. **Thakur, D.**, Kumar, Y., Kumar, A., & Singh, P. K. (2019). Applicability of wireless sensor networks in precision agriculture: A review. *Wireless Personal Communications*, 107(1), 471-512.
 28. **Thakur, D.**, Kumar, Y., &Vijendra, S. (2020). Smart Irrigation and Intrusions Detection in Agricultural Fields Using IoT. *Procedia Computer Science*, 167, 154-162.
 29. Pandey, P., **Thakur, D.**,& Thakur, B. (2020). Techniques for Behavior Lie Detection with the Aid of Physiological Signals: A Review. *Available at SSRN 3573551*.
 30. **S.Kumar**,B.Panna,R.K.Jha,“MedicalImageEncryptionUsingFractionalDiscreteCosine Transform with Chaotic Function”, vol. 57, no. 11, pp. 2517–2533, *Medical &Biological Engineering & Computing*, Springer,2019.
 31. **S.Kumar**,R.K.Jha,“AnFPGA-BasedDesignforaReal-TimeImageDenoisingUsingApproximatedFractional Integrator”, *Multidimensional Systems and Signal Processing*, Springer. (Accepted)

32. **P. Garanayak**, R. T. Naayagi, and G. Panda, “A High-Speed Master-Slave ADALINE for Accurate Power System Harmonic and Inter-Harmonic Estimation”, *IEEE Access*, vol. 8, pp. 51918–51932, Mar. 2020. (2018 Impact Factor 4.098).
33. **I. Yadav** and H. Shrimali, “Noise and Crosstalk Models of the Particle Detector with Zero-Pole Transformation Charge Sensitive Amplifier”, *Nuclear Instruments and Methods in Physics Research Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, Elsevier, vol. 937, Sept. 2019, pp. 107-116.
34. **Jacob, Ashna** and Nirmala Menon. “Mythos to Myth: An Implication of Euhemerism in Amish Tripathi’s *Shiva Trilogy*”. *The Journal of Religion and Popular Culture* 31:3. December 2019. University of Toronto Press. doi:10.3138/jrpc.2017-0034
35. **Jacob, Ashna** and Nirmala Menon. “Packaging Polytheism as Monotheism: A Study of the Mythopoeic Deity in Tolkien’s *The Silmarillion*”. *Religion and the Arts* 24 :1-2, April 2020. Brill publications. doi: <https://doi.org/10.1163/15685292-02401014>.
36. **Sonam Maurya**, Vinod Kumar Jain, Debanjan Roy Chowdhury, “DA-EERR: Delay Aware Energy Efficient Reliable Routing Protocol for Data Transmission in Heterogeneous Mobile Sink Wireless Sensor Networks” in *Journal of Network and Computer Applications* [Impact factor: 5.570] Elsevier, Vol. 144, Pages:118-137, ISSN 1084-8045, July 2019. DOI: <https://doi.org/10.1016/j.jnca.2019.06.012>

II. Conferences Publications

1. Bhuvaneswari Amma N.G. and **Selvakumar S.**, “*RumorDetect*: Detection of Rumors in Twitter using Convolutional Deep Tweet Learning Approach”, Springer International Conference on Computational Vision and Bio Inspired Computing (ICCVBIC 2019), Advances in Intelligent Systems and Computing, Vol. 1108, Springer Cham, 2019.
2. Elakkiya E. and **Selvakumar S.**, “Initial Weights Optimization using Enhanced Step Size Firefly Algorithm for Feed Forward Neural Network applied to Spam Detection”, IEEE Region 10 Conference TENCON 2019, Kochi, Kerala, 2019, pp.942-946.
3. S. Priya and **S. Selvakumar**, “A Framework for Detecting Phishing Websites using GA based Feature Selection and ARTMAP based Website Classification”, International Conference on Computing and Network Communications (CoCoNet'19), Trivandrum, Kerala, 2019.
4. Bhuvaneswari Amma N.G., **Selvakumar S.**, and R. Leela Velusamy, “*SAGRU*: A Stacked Autoencoder based Gated Recurrent Unit Approach to Intrusion Detection”, 8th International Conference on Frontiers of Intelligent Computing: Theory and Applications (FICTA 2020), NITK Surathkal, Karnataka, 2020.
5. S. Priya, **S. Selvakumar**, and R. Leela Velusamy, “Gravitational Search based Feature Selection for Enhanced Phishing Websites Detection”, 2nd International Conference on Innovative Mechanisms for Industry Applications (ICIMIA), Bangalore, 2020.

6. E. Elakkiya, **S. Selvakumar**, and R. LeelaVelusamy, "CIFAS: Community Inspired Firefly Algorithm with fuzzy cross-entropy for feature selection in Twitter Spam Detection", 11th International Conference on Computing, Communication, and Networking Technologies (ICCCNT), IIT Kharagpur, 2020.
7. S. Priya, **S. Selvakumar**, and R. LeelaVelusamy, "Detection of phishing attacks using radial basis function trained for categorical attributes", 11th International Conference on Computing, Communication, and Networking Technologies (ICCCNT), IIT Kharagpur, 2020.
8. **Gurpreet Kaur** and Gurmeet Kaur, "Upgrading the performance of a CO-OFDM system using Optical Phase Conjugation with Optical Neural Network in a fiber link", *IEEE International Conference on Measurement, Instrumentation, Control and Automation*, NIT Kurukshetra, India, 24-26 June, 2020.
9. **N. Katal** and S. Singh, "Metaheuristics-based Multi-objective Design of Robust Process Control Systems" in Book Title: *Emerging Intelligent Techniques in Engineering & Technology*, AAP & CRC Press. 2020. (In press).
10. L. Sinha, K. Rajawat and **C. Kumar**, "SVR-Primal Dual Method of Multipliers (PDMM) for Large-Scale Problems," 2020 National Conference on Communications (NCC), Kharagpur, India, 2020, pp. 1-5, doi: 10.1109/NCC48643.2020.9056014.
11. **C. Kumar** and K. Rajawat, "Network Dissensus via Distributed ADMM," 2019 53rd Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA, 2019, pp. 2191-2195, doi: 10.1109/IEEECONF44664.2019.9048905.
12. **BhuvaneswariAmma N.G.** and Selvakumar S., "*RumorDetect*: Detection of Rumors in Twitter using Convolutional Deep Tweet Learning Approach", *Proceedings of Springer International Conference on Computational Vision and Bio Inspired Computing, ICCVBIC 2019*, pp. 429-436, Coimbatore, India, 2019.
13. **BhuvaneswariAmma N.G.**, Selvakumar S., and LeelaVelusamy R., "SAGRU: A Stacked Autoencoder based Gated Recurrent Unit Approach for Intrusion Detection", *Proceedings of Springer International Conference on Frontiers of Intelligent Computing: Theory and Applications, FICTA 2020*, NITK Surathkal, India, 2020.
14. Mulaveesala, R., **Arora, V.**, Dua, G., Rani, A., Kher, V., Sharma, A., Kaur, K., "Pulse compression favorable thermal wave imaging methods for testing and evaluation of carbon fibre reinforced polymer", *Proc. SPIE*, 11409-30, (2020).
15. **ShawliBardhan**, and SukantaRoga. "Edge Feature Based Classification of Breast Thermogram for Abnormality Detection." International Conference on Advances in Mechanical Engineering (ICAME-2020), published in *Advances in Mechanical Engineering*, pp. 511-517. Springer, Singapore, 2020. DOI : https://doi.org/10.1007/978-981-15-3639-7_61.
16. SukantaRoga, **ShawliBardhan**, Dilip H. Lataye. "Air Pollution Monitoring using Blue Channel Texture Features of Image." International Conference on Deep Learning, Artificial Intelligence and Robotics Applications (ICDLAIR-2019), Springer (In press).

17. **S.Kumar**, N.Chauhan, R.K.Jha, "AFuzzyAssistedDynamicStochasticResonanceBased Mammogram Enhancement", VCAS, 2019.
18. **S.Kumar**, A.Gupta, R.K.Jha, "Analysis, Diagnosis and Correction of Rain Streaks", TEN-CON, 2019.
19. **N. Sharma**, S. Uttrani and V. Dutt, "Modeling the Absence of Framing Effect in an Experience-based Covid-19 Disease Problem", 18th Annual Meeting of the International Conference on Cognitive Modelling (ICCM 2020), Virtual Conference at virtual.mathpsych.org, 2020.
20. **N. Sharma** and V. Dutt, "Modeling decisions from experience among frequent and infrequent switchers via strategy-based and instance-based models", International Conference on Social Computing, Behavioral-Cultural Modeling & Prediction and Behavior Representation in Modeling and Simulation, George Washington University, Washington DC, USA, 2020.
21. Kumar, Satendra "A Poetic Form of Fundamental Physics", LAP Lambert Academic Publishing, **proceedings of the 34th Indian Association of Physics Teachers 2019 (IAPT Book 978-620-0-78765), IIT Allahabad**, pg. no. 34-37, 2020.
22. **I. Yadav**, A. Joshi, E. Ruscino, V. Liberali, A. Andreazza and H. Shrimali, "Design of HVC MOS Detectors in BCD Technology with Noise and Crosstalk Measurements", in *IEEE International Conference on Electronics Circuits and Systems (ICECS)*, Nov. 2019, pp. 398 - 401.
23. S. Dhiman, **I. Yadav** and H. Shrimali, "Energy Efficient Bootstrapped Driver for a Particle Detector in 180 nm SOI Technology", in *IEEE Asia Pacific Conference on Circuits and Systems (APCCAS)*, Nov. 2019, pp. 273 - 276.
24. **I. Yadav**, S. Dhiman, H. Shrimali, "A Study on Charge Sensitive Amplifiers for Particle Detection Application", in *4th ISSE National Conference on Systems for Transforming India: Challenges & Opportunities (iNAC-4)*, Ahmedabad, India, Sept. 26-27, 2019

III. Book Chapter

1. Dr. Madan Lal Verma, Assistant Professor in Biotechnology of SoBS has authored the following two books and one chapter:
 - a. Nanobiotechnology for sustainable bioenergy and biofuel production
 - b. Biotechnological production of bioactive compounds
 - c. A chapter in the book Micobial production of Omega-3 polyunsaturated fatty acids

The above books are to be published by CRC Press, Francis and Taylor, USA, 2020, Elsevier Press, Netherlands Europe, 2019, and Elsevier Press, Netherlands, Europe, respectively.

2. **S. Selvakumar** and **N.G. Bhuvaneshwari Amma**, "Computational Intelligence Methods for Anomaly based Detection of Distributed Denial of Service Attacks", DDoS Attacks: Detection and Defense Mechanisms, Nova Publishers, 2020 (Accepted for publication).

3. **Sunil Sangwan**, Narayan Chandra Nayak (2019). “Microfinance movement in Odisha: An investigation of Mission Drift” in B. Pattnaik (Ed.), Social and Political Movements in Odisha- Past and Present (Accepted).
4. R Mulaveesala, G Dua and **V Arora**, Active thermal wave imaging for non-destructive testing and evaluation of concrete structures, IntechOpen Limited, UK, 2019.
5. **N. Katal** and S. Singh, “Metaheuristics-based Multi-objective Design of Robust Process Control Systems” in Book Title: *Emerging Intelligent Techniques in Engineering & Technology*, AAP & CRC Press. 2020. (In press).

IV. Student Publications

1. N.Katyar, P. Gupta and A. Kumar, “Development of Cloud Based Multi Modal m-Cardiac Management System.” in Second International Conference on, Communication and Signal Processing (VCAS 2019), MNNIT Allahabad.
2. **Harsh Anand(19311, I.T)** - Invited by 5 International online MUN conferences MUN Names – AVY MUN, CONFAB MUN, Sophomore MUN, The humanitarian summit, Allagi MUN e-conference Invitation to upcoming international MUNs – CONRED MUN, Blitzer MUN.
3. **Udit Gulati (16125)** presented a talk on “Speeding up NMatrix by 100x” at RubyConf 2019, Nashville, TN, USA.

ACHIEVEMENTS

FDP			
Sl. No.	Name of Faculty Members	Title	Duration
1.	Ms. AkankshaPuri	FDP on implementation on New Curriculum at IIT Mandi	08-12 Jul. 2019
		Online FDP on E-ContentDevelopment for IIIT Faculty byNITTTR Chennai	15-19 Jun. 2020
2.	Mr. Divyansh Thakur	Co-coordinator of one-week FDP organized by HPTU and IIIT UNA.	One Week
3.	Ms. Himani Joshi	Certified for E-content Development for 21st Century Learners from NITTTR Chennai and IIITU Coordination committee.	15-19 Jun. 2020
4.	Ms. Ishita Vaidya	FDP on "E-Content Development for 21st Century Learners" conducted by NITTTR Chennai	15 – 19 June 2020
		FDP for the Conduct of new labs as per the new curriculum of IIIT Una at IIT Mandi.	One Week
		FDP on effective conduction of Labs by Dr. R. Kanchana at IIIT Una.	
5.	Ms. MinakshiShastri	FDP at IIT Mandi	One Week
		FDP organized by HPTU and IIIT UNA.	One Week
6.	Ms. Neha Mahajan	FDPonImplementationofNewCurriculum at IIT Mandi	08-12 Jul. 2019
		Online FDP on E-Content Development for IIIT Faculty by NITTTR Chennai	15-19 Jun. 2020
7.	Ms. Neha Thakur	FDP on Implementation of New Curriculum at IIT Mandi	08-12 July, 2019
		Online FDP on E-Content Development for IIIT Faculty by NITTTR Chennai	15-19 June, 2020
8.	Ms. Sonali	FDP on implementation on NewCurriculum at IIT Mandi	08-12 Jul. 2019
		Online FDP on E-ContentDevelopment for IIIT Faculty byNITTTR Chennai	15-19 Jun. 2020
9.	Dr. Gurpreet Kaur	Online FDP on E-Content Development for IIIT Faculty by NITTTR Chennai	15-19 Jun' 2020
10.	Ms. Jasleen Kaur	FDPonImplementationof New Curriculum at IIT Mandi	08-12 Jul. 2019
11.	Ms. Pranshu Sharma	FDPonImplementationofNewCurriculum at IIT Mandi	08-12 Jul. 2019
		Online FDP on E-Content Development for IIIT Faculty by NITTTR Chennai	15-19 Jun. 2020

12.	Mr. SuveerGuleria	5 Days FDP on “E-Content Development for 21 st Century Learners” by NITTTR Chennai and IIIT Sricity from 15 th to 19 th June 2020	15-19 Jun’ 2020
13.	Dr. G. S. Grewal	FDP on ‘Implementation of New Curriculum’ at IIT Mandi	08-12 Jul.’ 19
		Online FDP on E-Content Development for IIIT Faculty by NITTTR Chennai	15-19 Jun’ 2020
14.	Ms. Manu Chauhan	Successfully attended FDP on UHV, Level-II at NIT Hamirpur.	7 days
		Successfully attended FDP on "E-Content Development for 21st Century Learners".	15-19 Jun’ 2020
15.	Dr. SonamMaurya	Participated in one-week online FDP on “E-Content Development for 21st CenturyLearners” conducted by NITTTR Chennai.	15-19 June, 2020.
WORKSHOP			
1.	Ms. AkankshaPuri	Workshop on Virtual ClassroomTeaching	28-30 May, 2020
2.	Mr. Divyansh Thakur	<ul style="list-style-type: none"> Organized two days workshop on CISCO Networking. Organized one day workshop on Data Structures and Algorithms by Coding Ninja, Coordinating three days workshop on UPA yoga for students. Coordination two days workshop on UPA yoga for Teaching/Non-Teaching members. 	
3.	Ms. Himani Joshi	Certified on International Workshop on Big Data Analytics organized by the Department of Computer Science and Engineering, SSN College of Engineering sponsored by BIRAC project and in association with IIIT, Una (HP).	
4.	Ms. Ishita Vaidya	• Virtual Workshop on “Develop, Deliver and Assess Online Courses with MOODLE Learning Management System” organized by IIITDM, Kurnool and IIIT, Tiruchirappalli.	2-3, May’2020
		• International workshop on Big Data Analytics conducted by SSN College of Engineering in association with IIIT Una, sponsored by BIRAC Project.	28’May 2020 to 30’May 2020
		• Attended a Webinar on “Introduction to e-learning content creation” conducted by CDAC Mumbai, CSI Chennai, ACM Chennai and IEEE CS Madras.	15’June 2020
		A workshop on UPA YOGA organized by IIIT Una.	

		<ul style="list-style-type: none"> Attended a webinar on SQL for BIG DATA APPLICATIONS conducted by Panimalar Institute of Technology in association with Turnip Innovations, IEEE Computer society and CSI. 	11 July, 2020
5.	Ms. Minakshi Shastri	Introduction to eLearning content creation Organized by CSI, ACM & IEEE and CDAC Mumbai	Five days
		International workshop on Big Data Analytics conducted by SSN College of Engineering sponsored by BIRAC Project	28-30 May 2020
		Virtual Workshop on “Develop, Deliver and Assess Online Courses with MOODLE Learning Management System” organized by IIITDM, Kurnool and IIIT, Tiruchirappalli.	2-3 May, 2020
		STC on Cyber Safety at NIT Jalandhar	Five days
		Humanities and Social Sciences in Spring Nature	One Day
		Publishing Ethics: The role of publishers, researchers and institutions in Spring Nature.	One Day
6.	Ms. Neha Mahajan	Virtual Workshop on Online Courses with MOODLE LMS	02-03 May 2020
		International workshop on Big Data Analytics conducted by SSN College of Engineering sponsored by BIRAC Project	28-30 May 2020
7.	Ms. Neha Thakur	Virtual Workshop on Online Courses with MOODLE LMS	02-03 May, 2020
		International Workshop on Big Data Analytics (IWBDA - 2020)	28 - 30 May, 2020.
8.	Ms. Sonali	Workshop on Virtual Classroom Teaching	28-30 May, 2020
9.	Dr. Gurpreet Kaur	International workshop on Big Data Analytics conducted by SSN College of Engineering sponsored by BIRAC Project	28-30 May 2020
10.	Ms. Jasleen Kaur	Virtual Workshop on Online Courses with MOODLE LMS	02-03 May 2020
11.	Ms. Pranshu Sharma	Virtual Workshop on Online Courses with MOODLE LMS	02-03 May 2020
12.	Mr. Satish Kumar	Virtual Workshop on Online Courses with MOODLE LMS	02-03 May, 2020
		Workshop on Big data Analytics	28-30 May, 2020

13.	Mr. SuveerGuleria	“Online Certificate Course On Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials” conducted by IIRS-ISRO, Dehradun, India	13 th June, 2020 to 1 st July, 2020.
		3 Days International Webinar Series on “Advanced Antenna Design Principles” organized by the Department of Electronics and Communication Engineering, SSN	25-27, June 2020.
		5 Days Virtual Workshop on “Develop, Deliver and Assess Online Courses with MOODLE Learning Management System” by Virtual Learning Academy, IIIT Trichy and IIITDM Kurnool	May 2-3, 2020
14.	Dr. G. S. Grewal	Virtual Workshop on Online Courses with MOODLE LMS	02-03 May 2020
15.	Dr. Madan L. Verma	Conducted Two-days Workshop “Prelude to Biotechnology and Bioinformatics” Funded by BRSI, Trivandrum, Kerala/Completed Rs. 25,300/-	23-24 August 2019
16.	Ms. Manu Chauhan	Successfully attended residential workshop on Universal Human Values & Ethics at IIT Mandi.	3 days
17.	Dr. Satendra Kumar	VLA Workshop	May 02-03, 2020
		International Workshop on Big Data Analytics	May 28-30, 2020
ONLINE COURSES/VIRTUAL CLASSROOM PROGRAM			
1.	Mr. Divyansh Thakur	Certified Virtual Classroom Teacher	
2.	Ms. Himani Joshi	Certified Virtual Classroom Teacher from Classle SKILLNET Digital Certificate.	
3.	Ms. Ishita Vaidya	Certified Virtual Classroom Teacher Program conducted by ClassleSkillNet.	21-23, May 2020
		A course on “Machine Learning” by Stanford University (Ongoing course).	
4.	Ms. MinakshiShastri	Introduction to computer networks conducted by Udemy	Eight weeks
5.	Ms. Neha Mahajan	Certified Virtual Classroom Teacher Program conducted by ClassleSkillNet.	28-30 May 2020
6.	Ms. Neha Thakur	Certified Virtual Classroom Teacher Program conducted by ClassleSkillNet.	04-06 June, 2020
7.	Dr. Gurpreet Kaur	Certified Virtual Classroom Program conducted by Udemy	28-30 May, 2020

8.	Mr. Satish Kumar	Certified Virtual Classroom Program conducted by Udemy	28-30 May, 2020
		Introduction to Embedded Systems conducted by Udemy	
		Electronics-Digital Circuit Design	
		Digital Electronics: Robotics, learn by building module II	
9.	Mr. SuveerGuleria	Received <i>Certified Virtual Teacher</i> certification from Classless and IEEE Chennai Chapter	
10	Ms. Manu Chauhan	Certified Virtual Classroom Teacher Program.	
11.	Dr. Satendra Kumar	One week online course by edx on Quantum Internet and Quantum Computing	April 13-19, 2020
		One week online course by edx on Introduction to Astrophysics	May 02-08, 2020
OTHER			
Sl. No.	Faculty Name	Other Achievements/Activities	Duration
1.	Ms. Himani Joshi	Registered for the Ph.D. program as an in-service candidate of IIITU during the even semester of AY 2019-20.	
2.	Dr. Gurpreet Kaur	Women’s Rights in Contemporary India: Issues and Challenges	21-June-2020
		Develop, Deliver and Assess Online Courses with MOODLE Learning Management System	2-3, May’2020
		Guest Lecture on Women’s day	09-03-2020
		Indian Foreign Policy Success Stories: 2014-2020	28-02-2020
3.	Mr. SuveerGuleria	<ul style="list-style-type: none">• Introduction to Programming with MATLAB by Vanderbilt University offered on Courseraplatform.• Wireless Communications for Everybody by Yonsei University offered on Coursera platform.• AI For Everyone by deeplearning.ai offered on Coursera platform.• From the Big Bang to Dark Energy by The University of Tokyo offered on Coursera platform.	
4.	Ms. Manu Chauhan	Joined as a PhD research scholar in AY 2019-20 at IIIT Una.	
5.	Dr. Satendra Kumar	National seminar on RECENT ADVANCES &INNOVATIONS IN PHYSICS TEACHING & RESEARCH(RAIPTR-2019), IIIT Allahabad	Oct. 13-15, 2019
		Adventures of Particle Physics	June 20, 2020

		Innovations against Covid-19: Start-up opportunities for medical informatics, biopharma, and biomedical products.	June 27, 2020
6.	Dr. Indu Yadav	<ul style="list-style-type: none"> Travel grant fellowship from Himachal Pradesh Council for Science Technology and Environment (HIMCOSTE) under PATSS to attend <i>IEEE International Conference on Electronics Circuits and Systems (ICECS)</i>, Genova (Italy), IEEE student travel grant fellowship to attend <i>IEEE International Conference on Electronics Circuits and Systems (ICECS)</i>, Genova (Italy), 	Nov. 24-27, 2019.
7.	Dr. Sonam Maurya	Working on “AMICA- Activity Monitoring Healthcare Android App development project, a collaborative project with EURECOM France	March 2020- till date
8.	Dr. Shaifu Gupta,	Reviewer of Springer Journal of Supercomputing and IEEE Transactions on Neural Networks and Learning Systems.	
9.	Dr. Vanita Arora	Emerging Leader in Measurement Science and Technology, Institute of Physics, UK Second prize winner in Grand Finale of Punjab Startup Yatra (Feb 2019) Developed an infrared vision system for Covid-19 suspect identification (April 2020)	



INDIAN INSTITUTE OF INFORMATION TECHNOLOGY, UNA [HP]

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ANNEXURE-IV

STUDENTS ACHIEVEMENTS

SPORTS		
WINNERS		
Sl. No.	Event	Name/Roll Number
1.	Inter IIIT Sports Meet 2019 Inter IIIT Sports Meet 2020	Shubhi Dua (19240), Yogesh Shahi (19246), Shubhi Dua (19240), Ankita Kapoor (18237), Dev Aryan Verma (IIITU18313, Abhimanyu Deswal, Khalish Dhawan, Subodh Pandey, Siddharth Sharma, Shivang Yadav, Tejendra Saini (19244), Kartikey Dixit, Abhijeet Kumar Rai, Pushkar Pathak, Ratik Jindal, Shiv Prakash Jetwal
2.	Inter Branch Football tournament	Jitaksh Kapoor (IIITU18325), Sandeep Das, Kushgram Johari, Kushagra Sharma
3.	Poem Recite, Abhyudaya 2019	Kunwar Atul Ang (IIITU18324)
4.	200m Race (girls)	Shubhi Dua (19240)
5.	Interbranch Basketball tournament	Abhimanyu Deswal, Shivang Yadav
6.	War of WORDS (Debate Competition) hosted by EPMOC IIITU	Siddhant Kaashikar (19241)
FINALISTS		
Sl. No.	Event	Name/Roll Number
1.	Table Tennis team member at Inter IIIT Sports meet '19 held in IIIT Allahabad.	Jitaksh Kapoor (IIITU18325)
2.	Table Tennis Team member at Gusto'20 held at IIITDM Jabalpur	
3.	Street play (Depression) at International Theater Festival, 2019	Kunwar Atul Ang (IIITU18324)
4.	Chess individual event, Inter IIIT 2019.	
5.	Design Marathon at advitiya IIT Ropar	Devang Sharma (19307, I.T) , Deepak Prajapati (19305, I.T)
6.	Art of photoshop at advitiya IIT Ropar	
7.	Cricket team in annual sport meet	Subodh Pandey
8.	WAR OF WORDS, organized by EPMOC	Siddharth Sharma, Shivang Yadav

HACKATHONS		
WINNERS		
Sl. No.	Event	Name/Roll Number
1.	Hack 2.0	Mayank Methi
2.	Hack on Hill 3.0, Hack 20.	Anubhav Bhalotia
3.	Smart India Hackathon 2019	Abhijeet Kumar Rai
4.	Hackathon	Shivani Joshi
5.	Hack 1.0, 2.0, and 3.0 conducted by CSEC-NITH	Mratyunjay Soni
6.	Hack on Hill 30. Conducted by App Team NITH	
7.	Hack 3.0 SFD (Software freedom day) 2019	
8.	Smart India Hackathon 2019	Shiv Prakash Jetwal, Anurag Chadel
9.	SIH 2020, organised by Ministry of Housing and Urban Affairs	Niti Kaur 18117, Prashant Sengar, Ritesh Singh, Aryan Verma, Mohit Saini along with Niti Kaur (2018-22) and Vishal Pal (2018-22)
10.	Cybersecurity Hackathon conducted by IIT Kanpur	Shivam Singh
11.	Hacksagon (IIIT Gwalior)	Vanshika Pandey, Aditya Singh, Prashant Sengar, Aryan Verma, Ritesh Singh
12.	HCl Hack (IIT Kanpur)	
13.	Final round at Hacsagon IIITDM Gwalior Hacsagon	Devang Sharma(19307,I.T), Vanshika Pandey CSE 1 st year , Niket Aggrawal CSE 1 st year, Aditya Singh CSE 1 st year
14.	MUJhacks 4.0, Manipal University Jaipur	Utkarsh Singh Deepesh Manwani

Participation Institute Project/Technical Fest

1.	Disease prediction and alert system through IOT using multiple sensors	A. Gupta, N. Katyar P. Gupta, H. Gupta, R. Kumar and Arun Gupta
2.	Unmanned combat aerial vehicle	
3.	Automatic License Plate Recognition System	A. Ranjan, K. Pal, A. Yadav, A. Thakur, M. Verma and P. Gupta
4.	'Matcode Challenge Winner' organised by Aavesh, Meraki Techfest IIIT, Una	A. Ranjan
5.	Techkriti'19 IIT Kanpur	Jitaksh Kapoor (IIITU18325)
6.	4 debates, 2 inter IIIT, 1 intra IIIT sports meet, 5 college fests, 1 National Open Chess Tournament etc.	Kunwar Atul Ang (IIITU18324)
7.	Member of EkBharat Shreshtha Bharata (EBSB) at IIIT UNA.	Dev Aryan Verma (IIITU18313)
8.	Performer at Hill'ffair - Cultural Fest.	
9.	Co-coordinator at PRAVAH DRAMATICS-NITH	
10.	Performed Street Play at NITH on Independence Day 2019	
11.	GFEF Enigma Business Ideathon	Devang Sharma(19307, I.T), Kushagra Johari(19315, I.T), Kushagra Sharma(19316, I.T)
12.	Ideaavolt IIT Roorkee	Devang Sharma(19307,I.T), Aayushi Dangwal CSE Branch 1 st year, Vanshika Pandey CSE 1 st year)
13.	Novus 2.0 by IIT H	Devang Sharma(19307,I.T), Vanshika Pandey CSE 1 st Year
14.	Oman Desalination challenge	Devang Sharma(19307,I.T), Vanshika Pandey CSE 1 st year
15.	60kg International Robowars, Techfest IIT Bombay	Rajneesh Upadhyay 18113, Vikrant Singh 18114
16.	Bazzinga, Organized by English NIT-Hamirpur	Vibhu Bhardwaj 18137, Ayan Sharma 18108
17.	Summer Of Code with IIIT Una hosted by Coding Ninjas	Rollin Yambem (19237) (58 th rank) Shivam Singh (29 th rank), 16125
18.	Web application portals	Vasu Jain IIITU17314
19.	A website for Gs Mega Mart an online grocery store start-up.	Aditya Singh
20.	Business Case Study Competition	Mayank Methi
21.	Deputy Speaker in NITH Youth Parliament 2019	Niharika Gupta

22.	ACM ICPC 2017, 2018 and 2019	Amit Yadav, Anurag Bansal, Udit Gulati, Anant Kumar, Jatin Nagpal along with Anany Sharma (IT 2017-21), Prateek Bhardwaj, Sanyam Jain, Ayush Jain
INTERNSHIP		
1.	Google Summer of Code	Priyesh Kumar
2.	SDE Intern at Microsoft	Prateek Bhardwaj
3.	Product Design Intern at Adobe	Abhishek Aggarwal
4.	Contract work (freelance) as UI Engineer from a Caribbean company	Shivam Singh
5.	international mathematics Olympiad by indian statistical institute (ISI) for university students.	
6.	Amazon Development Centre, Berlin for the Summer of 2019	Anubhaw Bhalotia



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ANNEXURE-V DETAILS OF ORIENTATION PROGRAMS

Sl. No.	Activity/Title/Topic	Resource Person	Description
1.	B.Tech. Curriculum	Prof. S. Selvakumar Director, IIIT Una	<ul style="list-style-type: none"> Salient features of B.Tech. Curriculum was informed to the students
2.	Engineer as a Designer	Prof. T A Gonsalves Director, IIT Mandi	<ul style="list-style-type: none"> Evolution of Technology was discussed
3.	Fundamentals of Engineering and Sciences	Dr. Srikant Srinivas IIT Mandi	<ul style="list-style-type: none"> Exploring engineering was discussed Hands on sessions were conducted on exploring engineering
4.	Fire Safety Mock Drill	Mr. Jaipal Singh and Team	<ul style="list-style-type: none"> Different types of earthquake and sources of fire were explained A practical fire safety drill was demonstrated
5.	Awareness on Safety and Cyber Security Women & Men Safety	Sh. Sandeep Kumar, IAS DC Una	<ul style="list-style-type: none"> Safety/ Security of Women & Men was introduced to the students The potential dangers of computer security along with solutions were discussed
6.	Awareness on Health and Hygiene	Dr. Nikhil, CMO, Una	<ul style="list-style-type: none"> Following points were discussed: <ul style="list-style-type: none"> First aid Drug abuse Alcohol prevention
7.	Awareness about Mental Health	Ms. Richa Singh Co-Founder, YourDost	<ul style="list-style-type: none"> Counselling session for the emotional wellness of students was conducted
8.	SPIC MACAY cultural performance	Mr. Sanjeev Shanker and Mr. Ashwani Shanker	<ul style="list-style-type: none"> Classical Flute Music show was performed
9.	Universal Human Values	Dr. Sudheer Pandey IIT Mandi	<ul style="list-style-type: none"> Human values and ethics were discussed
10.	Space Technology	Dr. A. C. Mathur Ex-Director, MDAD, ISRO	<ul style="list-style-type: none"> Development in Space Technology was explained Various space Programs in India has been informed
11.	Entrepreneurship	Mr. Saurabh Mittal Catalyst IIT Mandi,	<ul style="list-style-type: none"> Lecture on Technology Business Incubation Strategies for start-up for entrepreneurs were discussed
12.	Upcoming Trends and Challenges in Technology	Dr. Balwinder Singh Joint-Director, CDAC Mohali	<ul style="list-style-type: none"> Evolution of computer technology from ICs and development in IoT were discussed

13.	Ethics and Values	Sh. Krishna Murari Retd I.A.S.	<ul style="list-style-type: none"> Ethics and Values (context) and Relationship at Personal and workspace were discussed
14.	Self Defense Training	Mr. Gaurav Sharma	<ul style="list-style-type: none"> Training on Self Defence Session was conducted
15.	Hostel Rules & Regulations	Dr. Satendra Kumar	<ul style="list-style-type: none"> Various Hostel Rules & Regulations were introduced
16.	Introduction to the clubs	Ms. Ishita Vaidya	<ul style="list-style-type: none"> Knowledge about various clubs of our institute was introduced
17.	Mentor- Mentee groups - Introduction within the group	Ms. Manu Chauhan	<ul style="list-style-type: none"> Introduction to Mentor- Mentee groups was presented Different Mentor- Mentee groups were announced
18.	Awareness about Fellowships	Dr. PriyabratGaranayak	<ul style="list-style-type: none"> Eligibility, application procedure, and different schemes (both central and state) for availing different scholarships were introduced
19.	Awareness about Online Courses	Ms. MinakshiShastri	<ul style="list-style-type: none"> Different online courses (NPTEL/ SWAYAM/MOOCs) were introduced
20.	Literary activities	Ms. Manu Chauhan	<ul style="list-style-type: none"> Different activities were performed
21.	Nano Bio-Engineering	Dr. Madan Verma	<ul style="list-style-type: none"> Role of Nanotechnology in Bio-energy was discussed
22.	Diagnostic Test	Prof. A. N. Gill Dr. Neha Sharma Ms. MinakshiShastri Ms. Manu Chauhan	<ul style="list-style-type: none"> Diagnostic Test was conducted to understand the level of amount of knowledge students possess in the subject of Mathematics, English, and Computer Science
23.	Bridge Course	Prof. A. N. Gill Dr. Neha Sharma Ms. MinakshiShastri Ms. Manu Chauhan	<ul style="list-style-type: none"> Bridge course was conducted to give an insight of basic skills required in subjects of Mathematics, English, and Computer Science
24.	UHV Sessions	Ms. Gurpreet Kaur Dr. PriyabratGaranayak Dr. Rama Gaur Ms. Manu Chauhan	<ul style="list-style-type: none"> Universal Human values were discussed Difference between Competition, Co-operation, and Excellence was explained with Hands on activities
25.	Exploring Engineering	Dr. PriyabratGaranayak Dr. Gurinderbir S. Grewal Dr. Satendra Kumar Dr. Madan Verma	<ul style="list-style-type: none"> Hands on sessions were conducted on exploring engineering
26.	Industrial Visit/ Sightseeing	Dr. Gurinderbir S. Grewal Dr. Satendra Kumar Ms. Gurpreet Kaur Ms. MinakshiShastri	<ul style="list-style-type: none"> Shri Anandpur Sahib was visited with all the students
27.	Plantation Drive	Dr. Madan Verma	<ul style="list-style-type: none"> Different plants were planted
28.	Feedback Session	Dr. PriyabratGaran ayak	<ul style="list-style-type: none"> Feedback about the whole orientation program was conducted



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ANNEXURE-VI

IIIT UNA FIRST SPORTS MEET 2019-2020 (24-25, FEBRUARY'20)

ATHLETICS

200m Boys			
Sr. No.	Name	Year	Medal
1.	Yogesh Shahi	1 st	Gold
2.	Tejendra Saini	1 st	Silver
3.	Anuvrat Karanwal	2 nd	Bronze
200m Girls			
1.	Ankita Kapoor	2 nd	Gold
2.	Ekta Bansal	3 rd	Silver
3.	Shubhi Dua	1 st	Bronze
800m Boys			
1.	Yogesh Shahi	1 st	Gold
2.	Tejendra Saini	1 st	Silver
3.	Shubhranshu S Singh	3 rd	Bronze
800m Girls			
1.	Ankita Kapoor	2 nd	Gold
2.	Swarnima Tiwari	2 nd	Silver
3.	Shubhi Dua	1 st	Bronze
1500m Boys			
1.	Jatin	1 st	Gold
2.	Yogesh Shahi	1 st	Silver
3.	Tejendra Saini	1 st	Bronze
4*400 Boys			
1.	Yogesh Shahi	1 st	Gold
2.	Tejendra Saini	1 st	Gold
3.	Ayush	1 st	Gold
4.	Jatin	1 st	Gold
5.	Shubhranshu S Singh	3 rd	Silver
6.	Ashwani Maurya	3 rd	Silver
7.	Rohit Kumar	3 rd	Silver
8.	Pranshant Soni	2 nd	Silver
9.	Harsh Chaudhary	2 nd	Bronze
10.	Hardeep Panth	2 nd	Bronze
11.	Kritik Kumar	2 nd	Bronze
12.	Lalit	1 st	Bronze
Overall Athletic Champion		Mr. Yogesh Shahi	

TEAM EVENTS

Sl. No.	Game	Winner	Runner up
1.	Cricket	Electronics and Communication Engineering	Computer Science and Engineering
2.	Football	Information Technology	Electronics and Communication Engineering
3.	Basketball	Computer Science and Engineering	Electronics and Communication Engineering
Overall Branch Champion			Electronics and Communication Engineering

Student Co-ordinators:

Shubhranshu Shekhar Singh

Vinayak Mishra

Faculty Co-ordinators:

Ms. Neha Mahajan

Mr. Satish Kumar

Ms. Manu Chauhan

Dr. G. S. Grewal

Hearty Congratulations to all the winners!

Mr. Anand Ranjan needs a Special Mention for his invaluable artistic skills.

Special thanks and applauds to Impressions for their valuable time and help.
