

UIT NEWSLETTER



A Quarterly Publication By

UNIVERSITY INSTITUTE OF TECHNOLOGY
H. P. UNIVERSITY SHIMLA-171005
A NAAC ACCREDITED "A" GRADE UNIVERSITY

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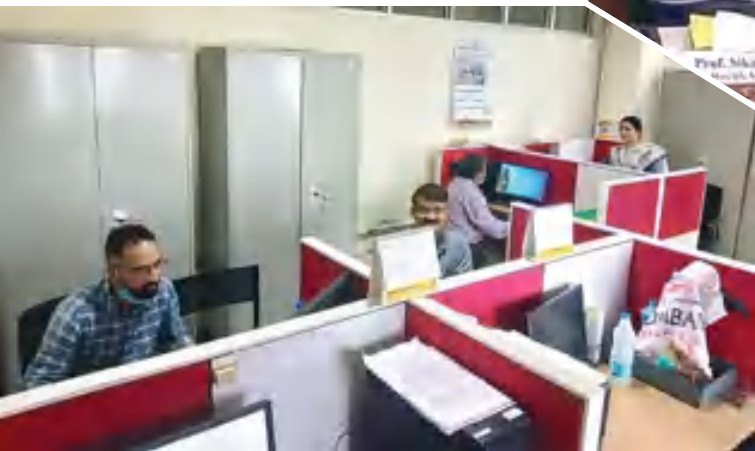
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UIT CAMPUS

“EYES OF KNOWLEDGE SEETH”

University Institute of Technology (UIT) is located on the campus of Himachal Pradesh University at Summer Hill, Shimla. This institute started functioning on 11th September, 2000 through the orders of the Executive Council of Himachal Pradesh University after approval from All India Council for Technical Education (AICTE). Initially, it was started with a batch of 60 students for B. Tech. (Information Technology) whereas B. Tech. (Computer Science Engineering) had also been introduced in 2013 with an intake of 60 seats. With the keen efforts of Hon'ble Vice Chancellor Prof. Sikander Kumar, UIT has added three new B. Tech. course branches from the academic session 2019-2020 namely- Electronics and Communication Engineering (ECE), Civil Engineering (CE) and Electrical Engineering (EE), with an intake of 60 each. Now UIT is a well-known Institute throughout not only in India but abroad also, for its quality product. UIT is a leading self-financed government institute of North India. It offers

an excellent learning environment amid the towering deodar trees with a unique blend of distinguished faculty, brilliant students and strong IT industry collaborations. Its new building, “SILVER WOODS ESTATE”, situated amid rich flora and fauna has been aesthetically planned and designed with excellent infrastructural facilities to offer a congenial environment for the students. The students here pursue their studies in a perfect serene and tranquil environment with beautiful and exquisite surroundings. It is the place where the students lay a strong foundation of their careers.

In view of three new Engineering courses added to the already existing two well established courses, UIT is one the largest Department of H. P. University. Thus, the expansion of campus of UIT is in the priority list of University authority. Hon'ble Vice Chancellor is pressing hard to get new academic blocks and residential buildings constructed in near future and process for this is underway. Very soon we would be able to see new additional infrastructure constructed for UIT.

MODIFICATION IN THE PATTERN OF UIIT ENTRANCE TEST-2020

In view of addition of new B. Tech. courses in the Institute, UIIT changed the pattern of its Entrance Test-2020 for admission from the next academic session as per the following scheme:

Subject	No. of Questions	Time
(a) Physics	33 MCQ	3 Hours
(b) Chemistry	33 MCQ	
(c) Mathematics	34 MCQ	
Total	100 MCQs	

1. There shall be only one paper consisting of 100 Multiple Choice Questions (MCQs) of duration 3 Hours. Therefore, the new pattern of UIIT Entrance Test will be as follows:
2. Each question will be of 2 marks.
3. There shall be negative marking of 0.5 marks for each wrong answer.
4. There shall be no score for un-attempted questions.
5. Displayed result shall show the marks scored by candidates in each subject and the total marks.
6. A combined merit list will be prepared for all the five courses (IT/ CSE/ ECE/ CE/ EE) on the basis of total marks scored by the candidates.
7. In case of a tie i.e. student obtaining equal marks (aggregate) in the entrance examination, the issue shall be resolved according to the higher marks obtained by the candidate in Mathematics part of entrance test followed by marks obtained in Physics part. Even if there is a tie in **inter-se** ranking after exhausting the above procedure, then the candidate older in age will be given preference.
8. Seat will be allotted on the basis of above merit and the order of course preference opted by the candidate in the counselling form.

ALTERNATE CRITERIA ADOPTED FOR PRAVESH UIT-2020

The admission to B. Tech. (IT/CSE/CE/EE/ECE) I-year in UIT for the batch 2020-2024, was supposed to be done on the basis of the merit of Common Entrance test consisting of only one paper containing 100 Multiple Choice Questions (MCQs) with the pattern (*Page-18 of Prospectus-cum-Handbook of Information-PRAVESH UIT-2020*) as discussed in earlier section.

However, due to the sheer uncertainty caused by the COVID-19 pandemic, the execution of conduct of the above entrance

test became non-feasible. Therefore, to avoid any further delay in commencement of the admission process and the academic session, it is proposed to cancel the Entrance Test for admission to B. Tech. (IT/CSE/CE/EE/ECE) – I year in UIT for the current session. Instead, it is proposed to adopt an alternate method to decide the merit for the admission to B. Tech. (IT/CSE/CE/EE/ECE) – I year in UIT for the current session only (*vide provision at Page-28 of Prospectus-cum-Handbook of Information-PRAVESH UIT-2020*).

Alternate Method Adopted: To decide the merit for the admission to B. Tech. (IT/CSE/CE/EE/ECE) – I year in UIT (for the current batch i.e. batch 2020-2024 only), it was decided, with due permissions from Deans of Studies and the Hon'ble Vice Chancellor, that the merit list may be prepared on the basis of the following **Score** out of **total 300 marks**:

- m = Marks in **Mathematics** out of 100 in qualifying exam (10+2)
- p = Marks in **Physics** out of 100 in qualifying exam (10+2)
- c = Marks in **Chemistry** out of 100 in qualifying exam (10+2)

Further, it is also proposed to adopt the following Procedure to decide the **Merit List**:

1. A combined merit list shall be prepared for all the five courses (IT/CSE/ECE/CE/EE) on the basis of the above **Score** calculated for the candidates.
2. In case of a tie i.e. candidates with equal **Score**, the issue shall be resolved according the higher marks obtained by the candidate in **Mathematics** in qualifying exam, followed by marks obtained in **Physics** in qualifying exam. Even if there is a tie in **inter-se** ranking after exhausting the above procedure, then the candidate younger in age will be given preference.
3. Seat shall be allotted on the basis of merit of the above **Score** and the order of Course Preference opted by the candidate in the Counseling form.
4. There shall be no change in the criteria of merit for the admission to B. Tech. (IT/CSE/ECE/CE/EE) –II-year, under the Lateral Entry Scheme.

5. Rest of the terms and conditions, laid down in the *Prospectus-cum-Handbook of Information-PRAVESH UIT-2020* shall remain unchanged.

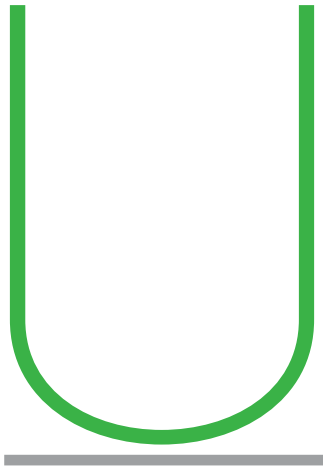
In view of the above decision and for the purpose of deciding Merit, UIT requested In-Charge Computer Centre HPU to seek following additional information from the candidates:

- Marks scored out of 100 in 10+2 Exam in **Mathematics** :
- Marks scored out of 100 in 10+2 Exam in **Physics** :
- Marks scored out of 100 in 10+2 Exam in **Chemistry** :

For this purpose Admission Portal and Application Form for all the candidates who had already applied for the entrance test-2020, were again opened, so that the requisite information could be sought from them well in time. Further, it was conveyed to the candidates via SMS and email both to furnish the additional information through the same, before the last date.

FOUNDER'S DAY

2020



niversity Institute of Technology (UIT), formerly named as UIIT, was established on 11.09.2000. Since then, University Institute of Technology (UIT) celebrated its founder's day on this day every year. So, this year also it was held on September 11, 2020. Prof. Sikander Kumar, the Hon'ble Vice Chancellor H. P. University Shimla, was invited as the Chief Guest for the event. He reached UIT at 11 am. On reaching the UIT, he planted the saplings of tree, distributed apples and congratulated UIT on its founder's day and for completing 20 years with pomp and glory. He congratulated everyone and appealed to contribute to the Institute's welfare and deliver plausible results through hard work and devotion. He also assured all possible assistance and support from the University.





SEMESTER END EXAMINATIONS

S

emester End Examinations, which were supposed to occur in the month of June, could not be conducted by University in its usual time due to COVID-19 outbreak. The practical examinations were conducted by UIT via online mode through GoToMeeting app. But HPU was committed to conduct these examinations in offline mode with all possible precautions and care. Therefore, it was decided by the University that the extra examination centre would be created in different parts of the HP state to meet the COVID-19 advisory/instructions. In view of this, five (05) additional examination centres for B. Tech. Semester End Examinations were created besides the usual exam centre at UIT, with all SOPs kept in places.

The Semester End Examinations for B. Tech. (IT/CSE/ECE/CE/EE) started w.e.f. 21.09.2020 to 05.10.2020, at the following examination centres:

1. University Institute of Technology, HPU Shimla.
2. Govt. Degree College Kangra, HP
3. Govt. Degree College Mandi
4. Govt. Degree College Solan
5. Govt. Degree College Bilaspur
6. Govt. Degree College Palampur

Further, no untoward incident or COVID case was reported due to these offline examinations, which are the testimony that the SOPs were followed in letter and spirit.

PRAVESH UIIT-

2020

The Entrance Test-2020 for admission to various courses in UIT was already cancelled due to COVID-19 pandemic and an alternate method to decide the merit for admission was adopted. The requisite data to draw a common merit list was handed over by the Computer Centre HPU. The Merit List was prepared as per the new criteria.

The next big problem was how would the counselling process take place keeping the precautionary measures of COVID in mind? Further, after the cancellation of admission test, the offline counselling was again not a good idea. So we planned to conduct the counselling through online mode. An online counselling form in the shape of a Google form was generated in which the candidates were asked to give their basic detail and they could also upload the photographs/scanned copy of their documents for verification. The data so received from the candidates could be displayed in an excel spread sheet and it made the verification process very simple.

On the basis of the preferences and the score of the candidate, the final branch wise merit lists of eligible candidates to take admissions were displayed time to time. Further, the candidates paid their admission fee through online mode and the receipts of the fee paid were also collected via online mode only. So it was a fully online admission process, much needed in the time of COVID-19 Pandemic.

Counselling Rounds & Admissions

Round-I : 09-10-2020 to 17-10-2020

Lateral Entry : 23-11-2020

Round-II : 19-10-2020 to 21-10-2020

Total Admissions : 32

Round-III : 10-11-2020 to 12-11-2020

Total Admissions: I-Year (IT/CSE/ECE/CE/EE) : 320

So in total about 350+ students were admitted in different streams through these rigorous counselling process and we saw a huge response of the candidates for taking admission to UIT. Whereas, most of the seats in rest of the government and private Engineering Institution in the state of Himachal Pradesh have been reported to remain vacant, the seats in UIT are full in all the courses. This is certainly a matter of pride for all of us that UIT is highly preferred institute for seeking admission in Engineering courses after IITs and NITs. The excellent placement record maintained by UIT over the years is a big reason for this as candidates anticipate their safe future and career in UIT.

Computer Science and Information technology trades are pre-existent in the UIT, but new streams viz. Civil, Electrical and Electronics & Communication, which were introduced from previous session, also received an overwhelming response for the admissions. Thus counselling phase of the session was cheerfully concluded with new faces soon joining the Institution.

RECRUITMENT OF NEW FACULTY MEMBERS

After the rigorous process of scrutiny of applications, followed by interviews, the Executive Council (EC) of Himachal Pradesh University, headed by Honourable Vice-Chancellor Prof. Sikender Kumar on dated 21-11-2020, EC approved the recommendations of selection committees for appointment of different posts in various departments.

In University Institute of Technology (UIT), a total 20 Faculty Members were recruited for three new engineering streams, as follows:

Department of Electronics and Communication Engineering (ECE):		
1.	Dr. Neeru Sharma	Associate Professors
2.	Dr. Monish Gupta	Associate Professors
3.	Dr. Kapil	Assistant Professors
4.	Dr. Swati Singh	Assistant Professors
5.	Dr. Richa Chandel	Assistant Professors
6.	Dr. Anjali Sharma	Assistant Professors
7.	Dr. Tarun Sharma	Assistant Professors
8.	Dr. Shalu	Assistant Professors
9.	Er. Rajeev Kumar	Assistant Professors
10.	Er. Reetam Negi	Assistant Professors
Department of Electrical Engineering:		
1.	Dr. Sanjay Kumar	Assistant Professors
2.	Dr. Nikita Gupta	Assistant Professors
3.	Dr. Jasmine Kaur Saini	Assistant Professors
Department of Civil Engineering:		
1.	Dr. Mahesh Sharma	Assistant Professors
2.	Dr. Disha Thakur	Assistant Professors
3.	Er. Ravi Kumar	Assistant Professors
4.	Er. Praveen Bhardwaj	Assistant Professors
5.	Er. Harish Chand	Assistant Professors
6.	Er. Rahul Prashar	Assistant Professors
7.	Er. Rakesh Kumar	Assistant Professors
Department of Applied Sciences:		
1.	Dr. Neetu Dhiman	Assistant Professors (Mathematics)

BRIEF BIO-DATA OF NEW FACULTY MEMBERS



Dr. ANJALI SHARMA

Dr. ANJALI SHARMA is currently working as an Assistant Professor (Electronics & Communication Engineering) in University Institute of Technology, Himachal Pradesh University, Shimla (India). She has more than 8 years of teaching experience. She has received her Ph.D. degree in Electronics and Communication Engineering from Chitkara University, India in 2019, ME degree in Electronics and Communication Engineering from Panjab University, India in 2013 and MBA degree in Human Resources from Himachal Pradesh University in 2011. She is active member of IEEE and a life member of International Association of Engineers. She has published more than 42 research papers in the field of Low Power VLSI design in International Journals and IEEE

international conferences. She has attended many faculty development programmes, at IIT's, NITTTR and NIT's. Her current research interests include analysis and design of low power digital circuits, ultra-low power biomedical digital devices, low power considerations for nanotechnology and ultra-low power VLSI designs.



Dr. MAHESH SHARMA

Dr. MAHESH SHARMA has recently joined as Assistant Professor in the Department of Civil Engineering. Prior to this, he was working as a Postdoctoral Researcher at the University of California, USA. He has also served as Scientist B at CSIR- Central Building Research Institute, Roorkee, where he has handled more than five Research and Development/Industry Projects in the field of Geotechnical Engineering focussing on Landslides and Building Engineering. He has two patents to his name and has published more than twenty five research publications in reputed international/national SCI journals and conferences. He has also received many accolades especially the prestigious awards like "Indian Young Geotechnical Engineer (IYGE)

award-2018" and four outstanding paper awards from Indian Geotechnical Society (IGS), International Society for Soil Mechanics and Geotechnical Engineering (ISSMGE) and CSIR-CBRI for his research works presented at various National and International Conferences. Presently, he is having total of 103 citations of his research work with an h-index of 6. His research interests include Geotechnical Earthquake Engineering, Bio-Geotechnics, Slope Stabilisation, Disaster Mitigation, Ground Improvement, Foundation Engineering, and Constitutive/Numerical Modelling of Geotechnical Structures. He is also the reviewer of various reputed international journals including Elsevier, American Society of Civil Engineers (ASCE), Institution of Civil Engineers (ICE), Springer and Taylor & Francis.



Dr. SWATI SINGH

Dr. SWATI SINGH is working as an Assistant Professor in Department of Electronics and Communication Engineering at University Institute of Technology, Himachal Pradesh University, Shimla. She has done her B.Tech, M.Tech and PhD in Electronics and Communication Engineering. Her specialization includes Machine Learning, Deep Learning, Image Processing, Networking and Digital Electronics. She has published more than 15 papers research papers and articles in reputed National and International journals and conferences and has also filed 2 patents. Presently she is working on an agriculture based project and guiding Post graduate and Doctoral students.



Dr. TARUN SHARMA

Dr. TARUN SHARMA presently working as Assistant Professor (ECE), UIT, Himachal Pradesh University, Shimla from November 2020 and works with research collaboration with various university of world such as Korea advanced institute of science and technology (South Korea) (QS world rank 39), Shenzhen University, Shenzhen and Tianjin university (QS world rank 429), Tianjin China, Indian Institute of Technology, Roorkee (QS world rank 383) and Queen's University at Kingston (QS World rank 246). Previously, he was postdoctoral fellow with reputed national and international institutes of the world such as Center for nano science and engineering, Indian institute of science, Bangalore (India) (QS world rank 170), Korea advanced institute of science and technology (South Korea) (QS world rank 42) and IIT Roorkee (QS world rank 383). His current research interests include nanophotonic integrated circuits, hybrid plasmonic waveguide, and silicon photonics. After joining with the UIT, he has submitted the research project to the Science and engineering research board (SERB) in addition to the research he is actively involved in the AICTE, Start-up and NIRF & NAAC work of the UIT.



Dr. KAPIL

I, **Dr. KAPIL**, completed my Bachelor of Technology (B.Tech.) in Electronics & Communication Engineering (ECE) from Kurukshetra University, Kurukshetra, Haryana in 2004 with Honors. My journey towards teaching is started in year 2005 where I have taught the UG students in degree of Electronics & Communications and I completed my Master of Technology (M.Tech.) in ECE in the year 2009.

I had completed my Ph.D. in Electronics & Communication Engineering (ECE) from UIET, Kurukshetra University, Kurukshetra, in the year 2019.

My thesis work is mainly concern with the developments of potential electronic devices for energy harvesting applications. I had fabricated and demonstrated Metal-Insulator-Metal (MIM) diodes and complete rectenna system to be used for energy harvesting applications. Based on my Ph.D. research work and keeping in view as an initiate towards the utilization of compact energy harvesting devices for smart cities a project entitled “Akshay Urja: Utilization of wasted RF energy using graphene based antenna for rectenna system” has been received by All India Council of Technical Education (AICTE) under Research Promotional Scheme (RPS) in the year 2017. During my thesis work, I acquired significant training and expertise in handling and maintenance of clean room and demonstrated many times the research facilities to various researchers, dignitaries and to the industrial persons from various Institutions and start-up companies of north India. During the similar period our group has successfully developed four products in-house namely beads separation system, printed film compression system, semi-manual bar coating and optical light assisted screen printing system for high registration multilayer printing. As a result I have published more than 25 research papers in several national/international journals, conferences and a book chapter.



Dr. SANJAY SHARMA

Dr. SANJAY SHARMA received B.Tech degree in Electrical Engineering from Himachal Pradesh University, Shimla, India in 2007 and M.Tech degree in Power System from National Institute of Technology, Hamirpur, India in 2010. He has completed her Ph.D. degree in Department of Electrical Engineering from Punjab Engineering College Deemed to be University Chandigarh, India in December 2019. Presently, he is working as Assistant Professor in University Institute of Technology, Himachal Pradesh University, Shimla (H.P), India. He has good Research experience in various areas of Electrical Engineering. He worked on a Project “Development and validation of technology for production of high energy density from rice straw and Agri-biomasses (Funding agency

PSA, GOI and Sweden). He published 9 research papers in reputed international and national journals, and 13 research papers in international and national conferences. His area of research includes Power System, Renewable Energy, Network Planning, Micro grid, Optimization, GIS and Machine Learning. He has published a number of research papers in various journals and conferences. He has 6 years teaching experience of NITs and government institute. He has delivered expert lecture in various Colleges/Universities in India. He is reviewer of various conferences and international journals including Elsevier, Springer, IEEE and Taylor & Francis.



Dr. RICHA CHANDEL

Dr. RICHA CHANDEL received M.Tech degree in Digital Signal Processing from, G. B. Pant Institute of Engineering & Technology, Uttarakhand, India in 2013. She has completed her Ph.D. degree in Department of Electronics & Communication Engineering from G. B. Pant Institute of Engineering & Technology, Uttarakhand, India in February 2018. Presently, she is working as Assistant Professor in University Institute of Technology, Himachal Pradesh University, Shimla (H.P), India. She has published 12 research papers in reputed international journals including IEEE Transactions, 2 book chapters, and 3 research papers in international conferences. Her research interests include designing and modeling of ultra- wideband microstrip Antenna,

oil pipeline imaging, MIMO Antennas for various applications.

Dr. Richa Chandel was awarded First Prize of 'Governor's Award 2019' for Best Research at Raj Bhawan Uttarakhand, Dehradun. She is a life time member of The Institute of Electronics and Telecommunication Engineers. She is reviewer of various international journals including International Journal of Electronics and IET Microwaves, Antennas and Propagation.



Er. RAJEEV KUMAR

Er. RAJEEV KUMAR received B.Tech degree in Electronics and Communication Engineering from Panjab University, Chandigarh, India in 2012 and M.Tech degree in Wireless Communications from Thapar University, Patiala, India in 2016. He worked as testing engineer in Megha Electronics for two and half years. He is currently working as Assistant Professor in University Institute of Technology, Himachal Pradesh University, Shimla (H.P), India.



Dr. NIKITA GUPTA

Dr. NIKITA GUPTA (S'13-M'19) received B.Tech degree in Electrical and Electronics Engineering from National Institute of Technology, Hamirpur, India in 2011 and M.Tech degree in Power System from Delhi Technological University, Delhi, India in 2014. She has completed her Ph.D. degree in Department of Electrical Engineering from Delhi Technological University, Delhi, India in December 2018. Presently, she is working as Assistant Professor in University Institute of Technology, Himachal Pradesh University, Shimla (H.P), India.

She has published 8 research papers in reputed international and national journals including IET, 1 book chapter, and 20 research papers in international and national conferences. Her research interests include power system engineering, power

quality, power electronic converters and its application in renewable energy systems, soft computing applications in renewable energy systems and microgrid.

Dr. Nikita received 'Commendable Research Award' for excellence in research during the year 2018 at Delhi Technological University, Delhi, India. She is the recipient of the 'Outstanding Paper Award' from the IEEE-GPECOM, in 2020. She is the recipient of the 'Best Paper Award' from the IEEE-INDICON, in 2015. She is member IEEE, member IAENG, member ISRD, Senior Member UACEE and Life Time Member TERA. She is reviewer of various international conferences and journals including Wiley and IET.



Dr. SHALU

Dr. SHALU received M.Tech degree in Microelectronics & VLSI from IIT Roorkee, Uttarakhand, India in 2014. She has completed her Ph.D. degree in Department of Electronics & Communication Engineering from NIT Hamirpur, H.P, India in 2019. Presently, she is working as Assistant Professor in University Institute of Technology, Himachal Pradesh University, Shimla (H.P), India. She has published 10 research papers in reputed international and national journals and 1 book chapter. She has teaching experience of IIITs and other reputed institute. She is reviewer of various international journals. Her research interests include Low Power VLSI devices, Analytical Modeling and Spintronic.



DR. JASMINE KAUR SAINI

Green Microgrids in Deregulated Electricity Market” in 2019, from the Department of Electrical Engineering, NIT Hamirpur.



Dr. NEETU DHIMAN

Dr. NEETU DHIMAN received M.Sc. degree in Mathematics from Himachal Pradesh University, Shimla (H. P.), India in 2010. She received Gold Medal in M. Sc. Mathematics from Himachal Pradesh University, Shimla. She has completed her Ph.D. degree in Department of Mathematics and Statistics from Himachal Pradesh University, Shimla (H. P.), India in 2018. Presently, she is working as Assistant Professor of Mathematics in University Institute of Technology, Himachal Pradesh University, Shimla (H.P), India. She has published 08 research papers in reputed international and national journals. She has experience of teaching in Engineering and Degree Colleges in H. P. Her research interests include Finite Fields, Boolean Functions and Bent Functions.



Dr. DISHA

Dr. Disha Thakur received M.Tech degree in Geotechnical Engineering from DAVIET Jalandhar, India in 2016. She completed her Ph.D. degree in Department of Civil Engineering from Jaypee University Wakhnaghat, Solan, H.P, India in 2020. Presently, she is working as Assistant Professor in University Institute of Technology, Himachal Pradesh University, Shimla (H.P), India. She has published 11 research papers in reputed international and national journals and 1 book chapter. Her research interests include geo-environmental engineering: municipal solid waste management, settlement analysis.



DR. SIDDHARTH KASHYAP

He has done Ph.D. (Management Studies) from HPUBS, Himachal Pradesh University, Shimla (2019), MBA with specialisation in marketing & HR from HPUBS, Himachal Pradesh University, Shimla (2011), Qualified UGC-NET (Management), June 2011 and has done BBA from UCBS, Himachal Pradesh University, Shimla (2008). Moreover, has worked for approximately seven years in a private varsity before joining UIT, HPU and has published and presented papers related to Social Marketing in national/international journals.



ER. PRAVEEN BHARDWAJ

Er. PRAVEEN BHARDWAJ is an Assistant Professor of Civil Engineering. He did his B.Tech. and M. Tech, from NIT-Hamirpur. His research interest includes: Transportation System Engineering and GIS. He has published a paper - Stone Aggregate quality Investigation of Hamirpur District Himachal Pradesh (International Conference EITM-2017).



ER. RAKESH KUMAR

Er. RAKESH KUMAR is an Assistant Professor of Civil Engineering. He did his B.Tech. and M. Tech, from NIT-Hamirpur. His research area is Environmental Engineering.



ER. RAVI KUMAR

Er. Ravi Kumar is an Assistant Professor of Civil Engineering. He did his B.Tech. from JNGEC Sunder Nagar (H.P) and M. Tech, from NIT Surathkal, Karnataka. His research area is Geotechnical Engineering. He also taught at NIT Hamirpur (H.P).



ER. REETAM NEGI

Er. Reetam Negi is an Assistant professor of Electronics and Communication Engineering in UIT. She did her B. Tech. from UIET Panjab University and M. Tech. from NIT Kurukshetra. Her research area is Wireless Communication. She has published following research papers:

Conference Paper:

- Analysis of covariance based detection technique under Rayleigh fading over cooperative sensing for cognitive radio networks, International conference on defence and space technology (ICDST) 2019.

- Analysis of Covariance Ratio Based Detection Techniques for Cognitive Radio Networks, International Conference on

Advances in Electronics, Electrical & Computational Intelligence (ICAEEC) 2019.

AICTE SPONSORED FDP ON ARTIFICIAL INTELLIGENCE

Ministry of Human Resource Development and All India Council for Technical Education (AICTE) established four **AICTE Training And Learning (ATAL)** Academies in country at Jaipur, Vadodra, Guwahati and Trivendrum on 24.9.2018 to conduct a series of Training Program in various thrust areas in all the four academies. These academies will provide upgraded teaching methods and modules to make technical education more effective and accountable. Faculties will be trained on the eight-module course in these academies in five months. The training will be mandatory for new teachers from 2019 and it will be necessary for existing teachers and assistant teachers while applying for promotions. As a part of its activities, AICTE Training and Learning (ATAL) Academy aimed to conduct 200 programmes (5 day programmes) across the country in Financial Year 2019-2020.



National Workshop on ARTIFICIAL INTELLIGENCE was one of such AICTE sponsored programmes, coordinated by Department of Electrical and Computer Engineering, IIT Ropar and organized at University Institute of Technology (UIT) H. P. University, Shimla, w.e.f. 23.11.2020 - 27.11.2020. The inauguration by AICTE ATAL Academy of 46th FDP was held on 23rd November 2020 online at 11:00 AM. Chief Guest of the program was Dr. Ramesh Pokhriyal, Guest of Honour of the function were Prof. Rajive Kumar (Member Secretary, AICTE) and Prof. O. G. Kakde (Director, IIIT Nagpur). Prof Ravindra Kumar Soni (Director ATAL) and Coordinator chaired the function. Also, Directors of different academies, and AICTE official were also present with the participants. In the addresses of Chairman Sir, he talked about various initiatives in pandemic times by AICTE. More than 100 participants from different states of northern India attended this workshop.

The following group of highly qualified and experts from the field of Artificial Intelligence trained the participants during the workshop:

1. Dr. Pratiyush Guleria, Deputy Director (Technical), NIELIT Shimla.
2. Dr. Shashi Shekhar Jha, Assistant Professor Department of CSE, IIT Ropar.
3. Dr. Neha Sharma, Assistant Professor, School of Computing, IIITUna.
4. Dr. Sanatan, Assistant Professor, Department of Computer Science and Engineering, Mahindra University Ecole Centrale School of Engineering.
5. Dr. Yayati Gupta, Assistant Professor, Computer Science & Engineering Department, Mahindra University Ecole Centrale School of Engineering.
6. Dr. Santosh Kumari Assistant Professor Management, Himachal Pradesh University, Shimla.
7. Dr. Shweta Jain, Assistant Professor, Department of Computer Science and Engineering, IIT Ropar.
8. Dr. Puneet Goyal, Assistant Professor, Department of Computer Science and Engineering, IIT Ropar and Associate Faculty, Center for Biomedical Engineering, IIT Ropar.

NATIONAL MATHEMATICS DAY- **AN ONLINE EVENT**



University Institute of Technology in collaboration with the Department of Mathematics, Himachal Pradesh University celebrated National Mathematics Day on 22nd December, 2020 to commemorate the 133rd birth anniversary of great Indian mathematician Srinivasa Ramanujan via virtual platform. All the faculty members and students of UIT and Mathematics Department, HPU joined this virtual online event.

Prof. P. L. Sharma, Chairman, Department of Mathematics and Director, UIT motivated all the students to work hard in a way that they assimilate mathematics in their lives. Professor Sharma also highlighted the importance of National Mathematics Day with the brief history of life and achievements of Srinivasa Ramanujan. The chief guest of the programme **Prof. Sikander Kumar, Hon'ble Vice-Chancellor of Himachal Pradesh University** congratulated the Department of Mathematics and UIT for celebrating this special day in virtual mode. He mentioned how COVID-19 *pandemic* has disrupted the education sector as well as economy and also appreciated the efforts made by faculties to make online teaching effective in order to minimize the losses of students. Prof. Sikander Kumar also talked about the life and academic achievements in Mathematics of Genius Srinivasa Ramanujan. Hon'ble Vice Chancellor

announced that “**Centre for Indian Mathematics**” will be established in the Department of Mathematics of this University and “**Additional Space will be provided to the Department of Mathematics**”. He also advised that Department of Mathematics should start its own **Journal** and **Mathematical Society** of Himachal Pradesh University should be formed and execution should be started immediately.

The main highlight of the event was invited talk by **Prof. Ruchi Das, Delhi University, Delhi**. She brought forward the contributions of Indian Mathematicians Bhaskracharya, Brahmgupta, Aryabhata and Ramanujan in different areas of Mathematics. She briefed about Mathematics in Ancient India and Modern Era. She talked about early life of Indian Mathematician Srinivasa Ramanujan and his contribution to the theory of numbers including pioneering discoveries of properties of the partition function.

Online **Poster making competition** was also organized on the topic “**Mathematics in Nature**”. The students of university enthusiastically participated in the competition. Ms. Diksha (M.Sc., Mathematics) won the first prize. 2nd prize was bagged by Ms. Shagun Sangha (UIT-CSE). The 3rd prize went to the Mr. Nitansh (UIT-IT) and Ms. Monika (M.Sc., Mathematics). Various presentations by students on the life of great mathematician of India and Vedic mathematics were also the part of program.

The function ended with the vote of thanks presented by Dr. Shyam Chand, University Institute of Technology, Himachal Pradesh University, Shimla. All the activities of the National Mathematics Day were coordinated by Dr. Shalini Gupta (Mathematics) and Dr. Anjali Sharma (UIT).



CONDUCT OF NEET (UG)-2020 AND NLU EXAM AT UIT

National Testing Authority (NTA) is an organisation which conducts various important and sensitive national level examinations like, IIT-JEE, NEET-UG and PG, NET etc. In the COVID-19 pandemic situation, UIT was also selected as one of the centres of the state for NEET (UG)-2020 test, which was scheduled to be held on 13.09.2020. All the necessary SOPs of COVID and other directions related to the fair conduct of the examination were followed with letter and spirit. Dr. Praveen K. Sharma and Dr. Shyam Chand acted as Centre Superintendent and Deputy Superintendents respectively. The non-teaching staff members of University and UIT were engaged for the smooth conduct of the exam by assigning them various duties, which they performed with perfection. The exam was completed successfully and no untoward incident was noted.

Another exam which UIT did conduct successfully was for National Law University, which was held on 26.09.2020. Again Dr. Praveen K. Sharma and Dr. Shyam Chand acted as Centre Superintendent and Deputy Superintendents respectively.

FACULTY ACHIEVEMENTS

Prof. P. L. Sharma

1. Acted as a Screening Committee Member as Head of the Department (UIT) w.e.f. 18.08.2020 for recruitment of Assistant/Associate/ Professors in UIT in CSE, IT, ECE,CE and EE.
2. Member Faculty Meeting held on 28.08.2020, for the approval of syllabi of all B. Tech. – II year (all branches of UIT), B. Tech.(Honours) and syllabi of M. Tech. IT/CSE.
3. Chaired one session in the online International workshop Geometry of Continued Fractions: Ramanujan and his Successors, conducted by CUHP on 15.09.2020.
4. Headed the Counselling Committee for admission to UIT w.e.f. 09.10.2020.
5. Joined as Chairman, Department of Mathematics, H. P. University Shimla, on 22.10.2020.
6. Delivered two talks in ASC-HRDC Khanpur:
 - (i) Cryptography and its use in Daily life.
 - (ii) Mathematics for Cryptography.
7. Selection Committee Member in the capacity of Director of the Institute in the Recruitment of Faculty Members in UIT for ECE, CE and EE branches, w.e.f. 06.11.2020- 11.11.2020.
8. Performed the duty of Observer in NTA-UGC-CSIR at Panthaghati.
9. Member Expert Visit Committee (EVC) to inspect the Technical Institute through online in the region AICTE Bhopal w.e.f. 21.12.2020 to 23.12.2020.
10. Member Expert Visit Committee (EVC) to inspect the Technical Institute through online in the region AICTE Hyderabad w.e.f. 27.12.2020 to 29.12.2020
11. Member Expert Visit Committee (EVC) to inspect the Technical Institute through online in the region AICTE Bombay w.e.f. 04.01.2021 to 07.01.2021.
12. Member Expert Visit Committee (EVC) to inspect the Technical Institute through online in the region AICTE Kanpur w.e.f. 13.01.2021 to 15.01.2021.

13. Member Expert Visit Committee (EVC) to inspect the Technical Institute through online in the region AICTE Kerala w.e.f. 17.01.2021 to18.01.2021.
14. Member Expert Visit Committee (EVC) to inspect the Technical Institute through online in the region AICTE Kanpur w.e.f. 13.01.2021 to15.01.202.
15. Inspection Committee member for the inspection held at Shoolini University, HP w.e.f. 29.01.2021 to30.01.2021.

Dr. Shyam Chand

1. Acted as Coordinator for UIT admission process.
2. Took part in the meeting of Faculty for the approval of syllabi.
3. Developed platform/portal for the online counselling, comprising of online counselling form, online collection of documents of candidates and collection of fee and fee receipts.
4. Conducted online counselling sessions for the admission to first year and lateral entry to second year.
5. Acted as the screening committee member for the recruitment of Faculty members in UIT for ECE and CE branches.
6. Acted as Deputy Superintendent NEET-UG exam conducted by NTA.
7. Part of Mathematics day organising committee.
8. One PhD scholar submitted her thesis under my Guidance.

MEDIA COVERAGE



Centre for Indian Maths to come up at HPU: VC

TRIBUNE NEWS SERVICE

SHIMLA, DECEMBER 22
National Mathematics Day to

works of Ramanujan.
Prof Ruchi Das from Delhi
invited

WIDIGARH | WEDNESDAY | 14 OCTOBER 2020

यूआईटी में अगले शैक्षणिक
सत्र से 5 विभागों में शुरू होंगे
एमटेक और पीएचडी कोर्स

शिमला | हिमाचल प्रदेश

बीटेक कोर्स में प्रवेश के लिए मेरिट लिस्ट जारी

शिमला। विश्व के यूनिवर्सिटी इंस्टीट्यूट ऑफ टेक्नोलॉजी (यूआईटी) ने शैक्षणिक वर्ष 2020-21 के लिए पाठ्य बीटेक कोर्स में प्रवेश के पहली मेरिट सूची जारी कर दी है। सूची को विश्व की वेबसाइट और यू आईटी की वेबसाइट पर उपलब्ध कराया गया है।

कवालीफाइंग एग्जाम बाहर के फिजिक्स, केमिस्ट्री और मैथ के प्राप्तांक के आधार पर संस्थान ने मेरिट तैयार की है। सूची में विभिन्न श्रेणी में प्राप्त हुए विद्यार्थियों को 19 अक्टूबर तक फीस जमा करवानी होगी। संस्थान के निदेशक प्रो. पीएल शर्मा ने बताया कि यह प्रोविजनल प्रवेश मेरिट है। हर छात्र के आवश्यकता दस्तावेजों को वेरिफिकेशन के बाद ही प्रवेश स्थायी माना जाएगा।

उन्होंने कहा कि निर्धारित तिथि तक फीस जमा न करवाए तो मेरिट में वॉटिंग लिस्ट

EDUCATION NOTES

HPU TO HOLD INTERVIEWS TO FILL POSTS

The Himachal Pradesh University Institute of Technology (UIT) will hold interviews to fill the posts of Assistant Professor, subjects of computer

यूआईटी में एमटेक, पीएचडी कोर्स को इसी ने दी मंजूरी

हिमाचल प्रदेश विवि की कार्यकारिणी परिषद की बैठक में लगाई मुहर

अमर उजाला ब्यूरो

शिमला। हिमाचल प्रदेश विवि की कार्यकारिणी परिषद को चारवार को साल 2020 की बैठक में

15 तक बढ़ाई यूजी परीक्षा फॉर्म भरणे की अंतिम तिथि शिमला। हिमाचल प्रदेश विश्वविद्यालय ने यूजी के तैयार में अंतिम और दिनांक पुरा करने को लिए यह निर्णय पास के जारी की परीक्षा पत्रों को समयावधि 15 नवंबर तक बढ़ा दी है।

छात्रों से नहीं ली जाएगी बढ़ी हुई फीस

शिमला - विश्वविद्यालय के यूआईटी विभाग में पढ़ाई कर रहे छात्रों के लिए राहत भरी खबर है। फीस कम करने की मांग कर रहे छात्रों को पुकार प्रशासन ने सुन ली है। विश्वविद्यालय के यूनिवर्सिटी इंस्टीट्यूट ऑफ टेक्नोलॉजी के छात्रों से इस बार कम फीस ली जाएगी। छात्रों की मांग को देखते हुए विश्वविद्यालय प्रशासन ने निर्णय लिया है। यूआईटी के विद्यार्थियों को इस बार फीस की हलाकत कम फीस देनी होगी। यूआईटी प्रबंधन ने संशोधित फीस स्ट्रक्चर कर दिया है। यह फीस स्ट्रक्चर यूआईटी की वेबसाइट पर भी उपलब्ध करवा दिया है। विभिन्न छात्र संगठनों के अलावा विद्यार्थियों को फीस कम करने की मांग उठाए जाने के बाद इस पर गौरवपूर्ण फैसला विश्वविद्यालय और यूआईटी ने प्रथम, द्वितीय, तृतीय व चतुर्थ वर्ष के छात्रों के लिए किया है।

बीटेक कोर्स के लिए नहीं होगी लिखित परीक्षा, मेरिट पर ही मिलेगा दाखिला

शिमला। हिमाचल प्रदेश यूनिवर्सिटी के यूआईटी में बीटेक प्रथम वर्ष में इस बार लिखित परीक्षा नहीं होगी। मेरिट के आधार पर ही यहां पर प्रवेश दिया जाएगा। यूआईटी के विभागाध्यक्ष प्रो. पीएल शर्मा का कहना है कि प्लस के आधार पर केमेस्ट्री, फिजिक्स और मैथेमेटिक्स में प्राप्त अंकों के आधार पर प्रवेश दिया जाएगा।

दिया जाएगा।

छात्रों को बीटेक ऑनर्स डिग्री लेना का मौका

शिमला। प्रदेश विवि ने बीटेक में डिग्री लेने वाले छात्रों को राहत दी है। विश्वविद्यालय के यूआईटी ने इस सत्र से उन छात्रों को

एच.पी.यू. के यू.आई.टी. में शुरू होंगे 'एम.टैक. और पीएच.डी.'



विश्वविद्यालय में यू.सी. की बैठक की अध्यक्षता करते कुलपति

एचपीयू के संस्थानों में 24 शिक्षकों का चयन

शिमला। हिमाचल विश्वविद्यालय के कमेटी रूम में शनिवार को कुलपति प्रो. सिन्दर कुमार को अध्यक्षता में कार्यकारी परिषद की बैठक में कई फैसले लिए गए। परिषद ने शिक्षक भर्ती के लिए बनी खयम समिति की सिफारिश को मंजूरी दी जिसके तहत शिक्षण विभागों और संस्थानों में 24 शिक्षकों का चयन और 2 को कॅरियर एडवॉन्समेंट स्कॉम के तहत पदोन्नति दी गई।

इन्में (यूआईटी) युनिवर्सिटी इंस्टीट्यूट ऑफ लियो है कि सत्र 2019-20 के सत्र के बाद प्रवेश लेने वाले विद्यार्थियों को बीटेक की डिग्री

विवेकानंद को मूर्ति लगवाने की बात हाउस में रखी गई थी। लेकिन आज तक मूर्तियां नहीं लगी।

यूआईआईटी में जल्द लिए जायेंगे

भर्ती के साक्षात्कार: कालिया

शिमला। हिमाचल प्रदेश (यूआईआईटी) में जल्द ही सूचना प्रौद्योगिकी इंजीनियरिंग और इंजीनियरिंग

एचपीयू से अब बीटेक ऑनर्स की डिग्री भी ले सकेंगे विद्यार्थी

एचपीयू से अब बीटेक ऑनर्स की डिग्री भी ले सकेंगे विद्यार्थी

एचपीयू से अब बीटेक ऑनर्स की डिग्री भी ले सकेंगे विद्यार्थी

एचपीयू से अब बीटेक ऑनर्स की डिग्री भी ले सकेंगे विद्यार्थी

एचपीयू से अब बीटेक ऑनर्स की डिग्री भी ले सकेंगे विद्यार्थी

एचपीयू से अब बीटेक ऑनर्स की डिग्री भी ले सकेंगे विद्यार्थी

न्यूज ब्रीफ

यूआईआईटी में एडमिशन के लिए अब 31 अगस्त तक कर सकेंगे आवेदन

यूनिवर्सिटी के यूआईआईटी एडमिशन ली

कूला की परीक्षा

नया फैसला, मार्च में ली जाएंगी परीक्षा

बीटेक के विद्यार्थियों को बराह राहत : विवि ने माफ की फी

शिमला। विवि के

प्रोफेसर के पदों के लिए छंटनी प्रक्रिया पूरी

शिमला। हिमाचल विवि में चल रही शिक्षकों की भर्ती प्रक्रिया में युनिवर्सिटी इंस्टीट्यूट ऑफ टेक्नोलॉजी (यूआईटी) में बीटेक बॉर्स के प्रोफेसर, एसोसिएट प्रोफेसर, असिस्टेंट प्रोफेसर के पदों के लिए आवेदनों को छंटनी पूरी हो गई है। इन पदों के लिए जल्द ही सहायकार को लिखि घोषित की जाएगी। भर्ती कमेटी के अध्यक्ष प्रो. अरविंद कलिया ने बताया कि छंटनी प्रक्रिया में अभ्यर्थियों द्वारा प्राप्त किए अंक का ब्योरा विवि की वेबसाइट पर उपलब्ध कराया दिया जाएगा। अंक से www.hpuniv.ac.in पर उपलब्ध कराया दिया जाएगा। अंक से

विद्यार्थियों को पांच हजार रु की मिलेगी फीस में छूट पहले यूसूली गई फीस अगले किस्त में होगी समायोजित रूप में मौजूद रहे। उन्होंने इस दौरान संस्थान के लिए बनाए पोर्टल का शुभारंभ किया। परि में शिक्षक और गैर शिक्षक

