Volume-1 Issue-IV(May-July), August-2019

UIIT NEWSLETTER

IT NEWS

A Quarterly Publication By:-

University Institute of Information Technology
H. P. University Shimla-171005
A NAAC Accredited "A"-Grade University

Editorial Board

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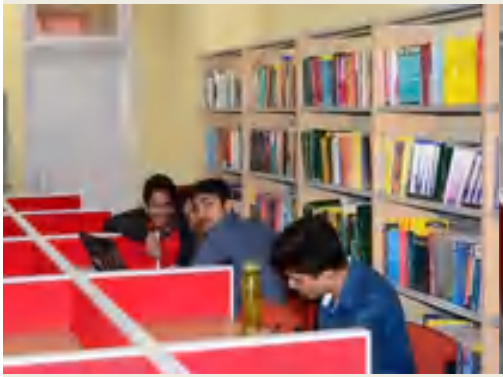
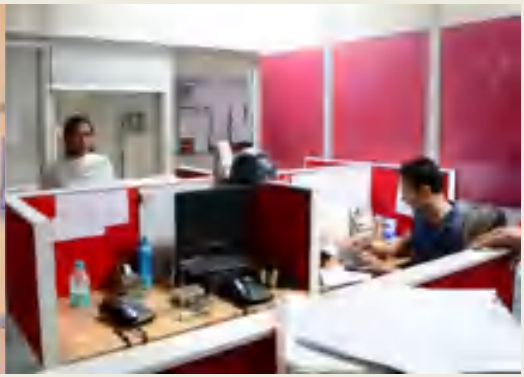
UNIVERSITY INSTITUTE OF INFORMATION TECHNOLOGY





UIIT Campus

"Eyes of Knowledge Seeth "

University Institute of Information Technology (UIIT) 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, UIIT 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 UIIT is a well-known Institute throughout not only in India but abroad also, for its quality product.

UIIT 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" is 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, UIIT is one the largest Department of H. P. University. Thus, the expansion of campus of UIIT 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 UIIT.

Faculty Development Programme

AICTE sponsored Three Days Faculty Development Programme on Student Induction Programme on Universal Human Values.

One of the good practices that UIIT never misses to follow is Student Induction Programme which is a sort of an orientation programme for the newly admitted B. Tech students who after going through a rigorous selection process of institute make it to UIIT. Since its inception in the year 2000, UIIT has kept this tradition alive till date and is committed to follow the same for the years to come. The major objective of the programme is to make the parents and students aware of the academic aspects of the course, the rules and regulations of the Institute and ensuring parental participation in monitoring the performance and progress of the students. It is mainly focused to make students aware on their very first day in the institute, about the activities which they are to be involved in the next four years of programme and the do's and don'ts that they have to abide by. The outcome of the one day induction programmes has been very effective and positive over the years for UIIT, in the sense that students feel at ease, safe and secure in terms of their career and life ahead.

But, recent directions from All India Council for Technical Education (AICTE) have made it compulsory to organise Students Induction Programme and to ensure zero tolerance towards this activity, the Students Induction Programme is made a part of academic programme to be conducted over a span of three weeks. To have a holistic outlook towards life, and have a desire to work for national needs and beyond, the graduating student must have excellent knowledge and skills in the area of his study. However, he must also have broad understanding of society and relationships. Character needs to be nurtured as an essential quality by which he would understand and fulfil his responsibility as an engineer, a citizen and a human being.

As an initiative in this direction, AICTE is conducting Faculty Development Programmes (FDP) in Engineering Institution in different parts of the country. The UIIT being an AICTE approved institution of H. P. University Shimla, is one of the venues where FDP was conducted. The responsibility to organise a Three Days FDP (w.e.f. 24-26 May, 2019) was given to UIIT by AICTE. Prof. P. L. Sharma, Director UIIT was the Convener, Prof. S. K. Dhiman was Coordinator and all the faculty members and non-teaching staff members were made the part of organising team under various committees of the programme. The

programme started at 10:00 AM with arrival of the Chief Guest for the inaugural session **Dr. Neetu Bhagat,** Deputy Director, Policy & Academic Planning Bureau, AICTE, New Delhi. At the very outset, Er. Akshay Bhardwaj formally welcomed Chief Guests Dr. Neetu Bhagat, Guest of honour and resource person Prof. Raminder Singh Uppal, Programme Coordinator Prof. S. K. Dhiman, Convener Prof. P. L. Sharma, Coordinator UIIT Prof. Jawahar Thakur and Participants from different parts of the country. This was followed by rituals of Saraswati vandana, H. P. University Kulgeet and Felicitation of Chief guests and other dignitaries.

Prof. P. L. Sharma, Director UIIT and worthy Convener of FDP welcomed all the dignitaries and thanked AICTE for giving chance to organise such an event in UIIT. His motivational speech was applauded by one and all present in the hall. Later, Prof. S. K. Dhiman Coordinator of the FDP presented his introductory speech about the objective of this programme. He emphasised that, there is a mad rush for engineering today, without the student determining for himself his interests and his goals. This is a major factor in the current state of demotivation that exists among UG students towards studies. The success of gaining admission into a desired institution but failure in getting the desired branch, with peer pressure generating its own problems, leads to a peer environment that is demotivating and corrosive.

To come out of this situation, a multi-pronged approach is needed to de-stress the students. One will have to work closely with the newly joined students in making them feel comfortable, allow them to explore their academic interests and activities, reduce competition and make them work for excellence, promote bonding within them, build relations between teachers and students, give a broader view of life, and build character.

On behalf of AICTE, Dr. Neetu Bhagat, Deputy Director, Policy & Academic Planning Bureau, AICTE, New Delhi and Chief Guest of the programme, presented her speech. In her speech she emphasised that when new students enter an institution, they also come with diverse thoughts, backgrounds and preparations. They come into a new unfamiliar environment, and many of them have little knowledge of a university/college. An important task, therefore, is to welcome the new students to higher education and prepare them for their new role. Transition from school to university/college life is one of the most challenging events in a student's life. Currently, fairly little is done by most institutions, except for an orientation program lasting a day or for couple of days. However, Student Induction should be designed to help in understanding the whole process of being a better human being. Therefore, it should be taken seriously, and as something more than the mere orientation program.

Later, during the three days programme participants were trained by the worthy resourceful Resource Person Prof. Raminder Singh Uppal, to

understand the importance of Students Induction Programme. Participants understood that, the very purpose of the Students Induction Program is to help new students adjust and feel comfortable in the new environment, inculcate in them the ethos and culture of the institution, help them build bonds with other students and faculty members, and expose them to a sense of larger purpose and self-exploration. It should be a well-planned event to educate the new entrants about the environment in a particular institution, and connect them with the people in it.

Participants were informed that the Students Induction Program be conducted with the new students as soon as they come into the institution; regular classes start only after that. At the start of the induction, the incumbents should be made to learn about the institutional policies, processes, practices, culture and values, and their mentor groups should be formed. Then students are supposed to be involved in the following activities:

- Physical Activity, Creative Arts and Culture
- Mentoring & Universal Human Values
- Familiarization with College, Dept./Branch
- Literary Activity & Proficiency Modules
- Lectures by Eminent People
- Visits in Local Area
- Extra-Curricular Activities in College
- Feedback and Report on the Programme

The time during the Induction Program should also be utilised to rectify some critical lacunas, for example, English background, for those students who have deficiency in it, which are to be included under Proficiency Modules.

Finally, on valedictory session, participants were asked to deposit their feedback forms and each participant was asked to speak about the impact of FDP and everyone felt that there should be a 3-week long induction program for the UG students entering the institution, right at the start. Normal classes should start only after the induction program is over. Its purpose is to make the students feel comfortable in their new environment, open them up, set a healthy daily routine, create bonding in the batch as well as between faculty and students, develop awareness, sensitivity and understanding of the self, people around them, society at large, and nature.

The programme ended with a vote of thanks speech presented by Coordinator UIIT Prof. Jawahar Thakur.

SPORTS MEET

Sports are an important part of a student's educational phase of life. It helps him in maintaining a fit body. It helps in giving him freshness and new energy and keeps him active throughout the day. It helps him to get out of tiredness and laziness. In team games like football, volleyball, it teaches him about team work and adaptability. It helps him to improve his stamina. It helps him to be proficient in any particular sport. It helps him in his Resume (Curriculum Vitae) in filling up the Extra-curricular activities section. It also helps him to win some medals and trophies for the college (provided he plays really well). Finally, it helps him to get a healthy and routine life.

And because sports are this important in all walks of life, we make sure at UIIT all the students actively participate in any form of sports they are interested in. To make sure that students can chose sports of their interest, the option provided to them are relatively immense. Either they can choose from indoor sports or outdoor sports. If any student feels that both these don't click that curiosity in them, tech games are always as an option for the tech-enthusiasts. No opportunity is curbed from the students as they are allowed to participate in as much competitions as they can and the schedules are prepared accordingly for the participants.

In Indoor games, the participants are given Badminton, Table tennis, Volleyball, Carom Board, Chess and Basketball as the options to choose from. In outdoor games, the participants are given Cricket and Football to make the blood rush in their veins on the field. Tech participants love games like counter strike. To trench their thirst, UIIT organises a devoted tech-fest sports competition at the time of UTKARSH. All these sports-competitions are completed within a period of seven days and hence the name coined for this week is 'Sports-Meet Week'. This time it was observed from 13th of April to 19th of April, 2019. Out of these seven days, first three days are devoted to the Indoor games at the reputed Indira Gandhi sports complex, Shimla. The next three are devoted to the outdoor games. And the last day which is usually a Sunday, is the grand finals of football and cricket. The tech games take place simultaneously on these days. All these seven days, the students are granted no-lecture days so that, if they are participating, they can perform, and if they are not, they can support the athletes without the chaos of classes. This builds a kind of


Football

environment that brings out the chiselled sportsmanship of UIITians.

If you are a part of the UIIT-Family you already know how thrilling, enthusiastic and passionate these seven days are. Although for the Indoor games, only the UIITians are allowed to spectate as no outsiders are allowed inside the IGSC premises on those days. But for the outdoor games, it is an open audience field and given the athletes of UIIT are well known figures among the local residents, the crowd assembling to witness the thrilling games of cricket and football are breath-taking.

Let us give you an Idea as to how it happens on the field. For making the description precise, we'll take only one sport as the reference, which here is football. The Football competition of the sports meet started on 16th of April. To manage the time, all the games were of 40 minutes each with 20-20 halves and a break of 5 minutes. The college football team consists of 16 athletes. Out of them, 1 was from the first year, 3 from the second, 8 from the third and 4 were from the fourth this session. This no. played a huge role in determining the strength of the squads each year had. As evident, third year had the best squad followed by fourth, second and first gradually. The competition started with everybody expecting it to be an easy win for the third year. But the Spectators saw nail-biting competition with moments that made them go on their feet awestruck.

In the inaugural match, fourth year competed against first. As soon as the match started, it was already raining. But that wasn't going to stop the passionate athletes of UIIT from giving their all to make their team win. This rain-struck match ended on a 2-0 final score with fourth year securing a close win with a pre-half time strike from robin and the other goal coming just minutes before the final whistle concluded the match. The next match was played between Second and third year. It was expected to be an easy win for the third year. But the match started and 15 minutes were gone and all the attempts to score were going futile. The defence of second year was unbreakable and all the balls that somehow slid past the defence were dealt by the goalkeeper, 5 corners, 11 shots on target till 18 minutes and still the score was 0-0. It was then when the captain of the third year came to rescue as he scored a brilliant dipping free kick to open the score. The next half saw poor goalkeeping and the ball being netted four more times with the final Score 5-0.

Day 2 started with first competing against third year, the match ended on a final score 6-0 with the third year's captain scoring a hat-trick. With this final score, the third qualified for the finals. The next game was going to decide who was going to be the other finalist. The fourth versus second ended on a final score of 1-0 with UIIT FC No. 10 scoring a low strike to the bottom right which in the end decided the final score of the game and

the finalists too. Two more games were played and the score were third 2-1 fourth and second 1-0 first.

The final was a breath-taking one and a game of football that the local crowd rarely witness. The final was played for duration of 60 minutes. The match started and till one third of the game no goals were scored. The game was thrilling with attacks being created every now and then but somehow either the defence or the goalkeepers managed to keep it out of the nets. In the 23rd minute a collective attack was started by the fourth year and they managed to take it to the other team's goalpost and after a couple of unsuccessful events, Aditya managed to net it. The score was 1-0 now and the third year was under pressure which was evident in their game as they were giving up on potential attacks and were either mishitting or hitting with poor strength. Half time went, 45 minutes window went and slowly the match was getting close to a 1-0 end with fourth being the winner but soon these hopes were thrashed as Tejas with a close header above the goalkeeper scored an equaliser that brought the roar back into the game. Every now and then a few more attacks were created from both the sides with both the teams being brilliant in terms of defending. The final whistle blew and the scores were level. The extra time of 15 minutes was awarded and still the score was 1-1. The penalties were the decider and on a close competition third defeated fourth on 4-3 on penalties.

Similarly, cricket tournament was organised and the final was played between Second and Third year. The third managed to secure an easy win and thus were the all-champions of the outdoor sports in this sports meet.

Indoor sports were also played with great zest with athletes hitting every muscle in their body to create strength to give that perfect hit, be it the shuttle, or the TT ball or the Volleyball. The Indoor competitions were concluded in the first three days.

ANNUAL FUNCTION

Now the players have given their all, and the rest have supported their teams and for creating such an amazing environment together, therefore the students of UIIT certainly deserve a treat. A delicious dinner and some fun let go off the fatigue of the Sports Week. We have that all managed beforehand. Each year to award the winners and quantify the achievements of UIIT over a year, an annual function is organised. The venue for this year's annual function was beautiful Peter Hoff premises in Shimla.

The very purpose of this activity includes:

- Adieu to final year students.
- Distribution of Appointment Letters from various reputed Companies/Organisations to Students.
- Distribution of Certificates of Merit to the Toppers of all the semesters.
- Distribution of Certificates of participation and Trophies to the students for their excellence in sports meet.
- Dinner.

This year the annual function was organised on 14th of June, 2019. The event had it all UIITians with their ethnic, formal and semi-formal attires were putting up a show that night unlike how they look in the college uniform. There was an aura created, an aura of celebrations, an aura of achievements, an aura to remind the junior UIITians for the next year to make them see what their goals should look like for the next academic year.

The function started with the lighting of lamp to pay the respect to Maa Saraswati, the Goddess of knowledge and wisdom followed by chanting of H. P. University Kulgeet. Further we witnessed a welcome ceremony of the Chief Guest of the event Professor Sikander Kumar, Hon'ble Vice Chancellor, Himachal Pradesh University, Shimla. This was his first interaction with UIITians ever since he has taken over as the Vice Chancellor of this University. Director UIIT felicitated the Chief Guest and presented a beautiful welcome address to thank all who were the part of this august gathering.

The third issue of UIIT's Quarterly Newsletter- BITWITS was also ready to release and to have this honour, Dr. Shyam Chand, Editor of BITWITS handed over the copies of UIIT Newsletter to the Chief Guest and other dignitaries. The Newsletter got release with a huge round of applause from the gathering.

Then the winners of sports meet were awarded with souvenirs in their respective sports. The team-sports winners were awarded with team trophies. Second year were the winners in Volleyball, Third Year were the winners in Cricket and Football.

The hon'ble Vice Chancellor also awarded certificates to the topper of previous semester and also the appointment letters to the final year students who were placed in various reputed companies through Campus Placement Drive of UIIT. The award-distribution ceremony was followed by joyous dancing in the jam session by a professional DJ. Alongside the buffet was open for dinner. Students had dinner, danced, enjoyed the night and by 10:00 were released from the event.

In the professional world after the completion of their college tenure, the students would be a part of regular staff meetings, presentations and dinners with dignitaries of the businesses they'd be serving. An event like Annual Dinner prepares them beforehand to dress up, look crisp and carry the charm of a professional to the table.

Annual Dinner has significance that goes beyond just awards distribution and having a night of joy with colleagues and classmates. It embarks how gentlemen dress, behave and impress others in social gatherings. All these qualities later help them in their professional careers.

It's the only event of UIIT where in a formal environment, all the students of the Institute come together to experience the moments of bonding, enthusiasm, poise and togetherness. The UIITians know it's the most complete night of their academic session as no box is left unticked in terms of the components of the evening, be it Speeches, sportsmanship, dancing, clicking photos in the beautiful premises of the hotel or enjoying the night as a whole. A perfect academic session thus came to an end with the conclusion of Sports Meet and the annual dinner.

For the final year students, this is the last event of UIIT and an emotional moment as they have to move out of the Campus but fully contended with their performance. Almost all of them are having their appointment letters of jobs in hand and ready to enter into a phase of life altogether different from what they had been in over the last four years. They will definitely cherish these happy moments of UIIT for the rest of their lives.

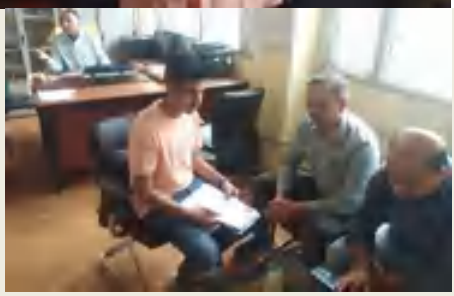
PRAVESH UIIT-2019

Although most of the engineering colleges provide seats to the candidates on the basis of JEE Examination Result, UIIT conducts it's own entrance examination so that the students can be selected specifically for the branches they adopt when pursuing their studies. The syllabi and the style of entrance test of admission to UIIT differs from the JEE exams and it not only tests the knowledge of candidates in relevant science discipline but also the analytical and soft skills which are judged from the tricky question of aptitude, reasoning and language. Hence the entrance test consists of two papers. Paper-I contains Mathematics and Physics questions of equal weightage and of total 100 marks. Paper-II contains question consisting of basics of computers/information technology, reasoning, aptitude and English. The entrance test thus, selects candidates with good brain over their heads.

As three new streams were added to the list of courses offered besides two already existing branches, the number of applications received showed a significant hike. In this response, two new centres for the examinations were created in the state of H. P. at Hamirpur and Mandi. Hence, there were six centres for entrance test in total-Shimla, Dharamshala, Mandi, Hamirpur, Chandigarh and Delhi. But due to a limited candidate strength at Delhi centre, later was shifted to Chandigarh centre. The entrance test was held on 9th of June-2019 and was reported to be held peacefully.

The result was declared by office of the Dean of studies well in time and a combined merit was drawn accordingly. Further, UIIT also has the provision to admit the students directly to B. Tech. II –year through Lateral Entry scheme on the basis of score of candidates in their diploma courses of concerned branch. The number of seats in diploma courses is 10 % of the total sanctioned strength plus the number of seats left vacant in first year of concerned stream.

In view of new B. Tech. degree courses introduced in UIIT, it was evident that allotment of the seats is going to be a tedious process. A proper planning and execution of counselling and admission process was needed in distribution of seats in various categories and course preferred. But, UIIT had an experience of doing so and everyone was prepared to play his/her role so that there would not be any case of negligence.



Counselling Rounds & Admissions

Round-I : **03-07-2019 to 11-07-2019**
Round-II : **18-07-2019 to 19-07-2019**
Round-III : **05-08-2019 to 06-08-2019**
Round-IV : **13-08-2019**

Lateral Entry : **26-07-2019**
Total Admissions: 17/17

Total Admissions: **I-Year (IT/CSE/ECE/CE/EE)** : **300+13**

So in total about 330 students were admitted in different streams through these rigourous counselling process and we saw a huge response of the candidates for taking admission to UIIT. 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 UIIT are full in all the courses. This is certainly a matter of pride for all of us that UIIT is highly preferred institute for seeking admission in Engineering courses after IITs and NITs. The excellent placement record maintained by UIIT over the years is a big reason for this as candidates anticipate their safe future and career in UIIT.

Computer Science and Information technology trades are pre-existent in the UIIT, but new streams viz. Civil, Electrical and Electronics & Communication got introduced from this session. Hence, the candidates had more options to choose. Thus counselling phase of the session was cheerfully concluded with new faces soon joining the Institution.

EXAMINATIONS

Studies have shown that examinations remain the best way of assessing students of all levels and helping them to achieve academic excellence. Hence at UIIT also, we make students appear and give their best in the examinations. In each semester, the students go through a series of exams viz. sessional, internal practical, external practical, project submissions and semester-ending exams.

This series has an interval of approximately 40 days which are placed at the end of the semester so that the student has plenty of time to study and simultaneously learn different skills beforehand. In UIIT we have some Sessional Examinations of theory and practical subjects for the internal assessment marks to be given to each student on the basis of their performance during the semester. The sessional focuses on giving the students that 'first chance' at assessing themselves. The students are now aware of the mistakes they are making in their studies and can improve accordingly.

The internal practical emphasize on testing the skills they have learned in the semester in the comfort of their own professors so that they can build confidence to face the external examiners. This confidence also comes handy when they would sit for the interviews in their last year for job placements.

Finally, the students are granted preparatory holidays for the final exams for over 6-8 days. Afterwards, they are tested on all fronts exclusively for a period of 15 days by the semester-ending examinations. These exams were conducted as per the following schedule:

25-05-2019 to 04-06-2019 : Internal Sessional Examinations (Theory & Practical)
08-06-2019 to 16-06-2019 : External Practical Examinations
30-06-2019 to 01-07-2019 : Project Viva
18-06-2019 to 02-07-2019 : Final Examinations

After the conclusion of the exams the students were gifted summer holidays so that they can visit home and be around their loved ones. This would refresh them and charge them up for the next semester.

Prof. P. L. Sharma

Prof. P. L. Sharma is currently a senior Professor in the Department of Mathemati and Director UIIT, HPU Shimla. Under his able directorship, UIIT has scaled new heights in terms of academics, overall functioning and growth of the Institute. Besides this he had performed following additional activities during last three months:

- Acted as NTA Observer to conduct NEET (UG)-2019 held on 5th May, 2019.
- Organised one day National Seminar on Future India: Science and Technology, sponsored by Indian Science Congress Association, at H. P. University Shimla on 22nd May, 2019.
- Acted as Convener Faculty Development Programme on Students Induction Program based on Universal Human values, w.e.f. 24-26th May, 2019 at UIIT, H.P. University Shimla.
- Conducted B. Ed. Entrance Exam at Govt. P.G. College Bilaspur as Centre Superintendent on 1st June, 2019.
- Mrs. Kiran Devi in the Department of Mathematics, H. P. University Shimla, was awarded Ph. D. degree after her successful viva-voce held on 7th June, 2019. She became the seventh Ph. D student under eh able guidance of Prof. P. L. Sharma.
- Mr. Nitish and Ms. Dumita in the Deptt of Mathematics, H. P. University Shimla completed their M. Phil. degree, under the guidance of Prof. P. L. Sharma, after successful viva-voce held on 8th June, 2019. Ms. Dumita became the gold medallist in the M. Phil (Mathematics) for the session 2018-2019 with 94% marks.

- Conducted Group Discussion and Personal Interview w.e.f. 24-26th June, 2019, for admission to BBA at UCBS, H. P. University Shimla.

- Two Invited Talks delivered on "How the teaching of mathematics be effective?" at SCERT Solan for the school lecturers of Mathematics on 11th July, 2019.
- Invited Talk delivered on "Basics of Cryptography and its Mathematics" in Mathematics Refresher Course at HRDC H. P. University Shimla, on 25th July, 2019.
- Inspected Kol Valley Institute of Nursing near Slapper/Barmana, Bilaspur as Vice –Chancellor's Nominee on 26th July, 2019.
- Inspected Govt. P. G. College Ghumarwin, Distt. Bilaspur, for the affiliation with H. P. University to run the BBA, BCA and PGDCA classes, as Vice –Chancellor's Nominee on 29th July, 2019.

Dr. Shyam Chand

Assistant Professor

(Applied Physics)

During the last three months, Dr. Shyam had performed the following activities:

- Editor, UIIT Newsletter, BITWITs. Played instrumental role in publishing all the previous issues of BITWITs.
- Coordinated the pre and post entrance test process for admission in UIIT
- Played instrumental role in planning and execution of counselling process for admission to UIIT.
- Published 2 research papers in the journal of American Institute of Physics Conference Proceedings.
- Finalised the syllabi of first year B. Tech (Civil/ Electrical/ECE/CSE) in the capacity of Member, Board of Studies of UIIT
- Acted as NTA representative for conduct of NEET (UG) 2019 at K. V. Jakhoo Hills Shimla, on 5th May, 2019.
- Member organising team and participant in AICTE sponsored Three Days FDP (UIIT, HPU, 24-26 May 2019).

Till date he has published 20 research papers in National and International journals, which has earned 34 Google Scholar Citation and 30 Research Gate Citations so far.

Dr. Praveen K. Sharma

Assistant Professor

(Applied Mathematics)

During the last three months,

Dr. Praveen K. Sharma had

performed the following activities:

- Associate Editor, UIIT Newsletter, BITWITs.
- Member counselling committee for admission to UIIT
- Finalised the syllabi of first year B. Tech (Civil/ Electrical/ECE/CSE) in the capacity of Member, Board of Studies of UIIT
- Acted as NTA representative for conduct of NEET (UG) 2019 at K. V. Jakhoo Hills Shimla, on 05 May, 2019.
- Member organising team and participant in AICTE sponsored Three Days FDP (UIIT, HPU, 24-26 May 2019).
- Attended a two weeks Refresher Course at HRDC, H. P. University Shimla-5 w.e.f. 22nd July, 2019 to 3rd August, 2019

MEDIA COVERAGE