

# CAMPUS MIRROR

Annual Newsletter of I.K. Gujral Punjab Technical University (March 2019 - April 2020)

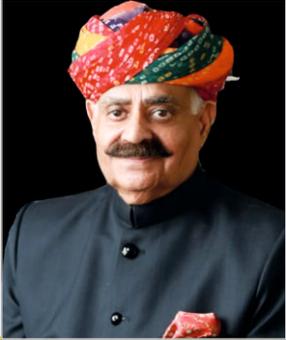


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## MESSAGES FROM OUR MENTORS



**Sh. V.P. Singh Badnore**

His Excellency, Governor of Punjab  
& Chancellor IKG PTU

I am immensely elated to see I.K. Gujral Punjab Technical University (IKGPTU) marching towards its next academic session 2020-21 with new fervor and goals of excellence in technical education. It is bringing out the second edition of its annual news letter Campus Mirror. Let me congratulate the University for its tenacious and laudable growth in the domain of education and research.

I believe that a University is the foremost place of erudition as it takes on the huge responsibility of grooming, fostering and mentoring young minds; occupying the best of accessible human and physical resources. In today's global world, rapid changes occurring across the world have also necessitated a change in the role of universities. Keeping this in view, IKGPTU is serving as a milestone in fulfilling our dream of making the state of Punjab as one of the best state in the field of higher technical education and research.

The initiatives taken by the university including development of industry-ready curricula; expansion of world-class research infrastructure; Online Public Grievance Portal; catering to the professional needs of working professionals through its Open & Distance Learning Programme; International exposure to the students through Students' Exchange Programme; the placement of students in many Public Sector Units and private industries are indeed praiseworthy.

I hope that with its diligent work, the team IKGPTU shall continue to reach the pinnacle of achievements in this global educational world.

My best wishes to all!

*V.P. Singh*  
**V.P. Singh Badnore**

## MESSAGES FROM OUR MENTORS



**Capt. Amarinder Singh**

Hon'ble Chief Minister Punjab

It is very gratifying to learn that I.K. Gujral Punjab Technical University (IKGPTU) is going to start the admission process of the next academic session 2020-21 for its Campuses and affiliated Colleges. It is also a proud moment for us that the university is sharing its annual activities through its report "Campus Mirror".

I congratulate all the students, faculty and staff of IKGPTU for entering into another year of their academic and professional pursuits. The university is coming up with its 'Admission Brochure-2020-21' & Annual Activity report to keep the students well-informed about its academic curriculum, extra-curricular activities, research infrastructure, accomplishments and plans in its mission towards its mission of excellence in technical education.

It is a matter of instinctive happiness to know that IKGPTU has become a leading research-intensive university, recognized internationally for its quality, relevance, and impact, and also for developing people, creating knowledge and making a difference locally and globally. Students entering the study at any level will, therefore, find a competitive as well as a supportive environment in which every student is taken seriously and competently prepared to excel as a professional in any part of the world.

As this is the age of technology and a nation that is well -equipped on this score in men and material both are bound to occupy a high place in the comity of nations. I hope that the University along with its constituent campuses and affiliated colleges would continue serving the nation by producing well-qualified and proficient professionals as per the needs of the global industry.

I earnestly wish that the endeavors of team IKGPTU gain a crowned momentum and reap the sweet fruits of success.

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*Amarinder Singh*  
Amarinder Singh

## MESSAGES FROM OUR MENTORS



**S. Charanjit Singh Channi**

Minister for Technical Education  
and Industrial Training, Punjab

It is a matter of immense pleasure to know that I.K. Gujral Punjab Technical University (IKGPTU) is going to start the admission process of the next academic session 2020-21. Let me congratulate all the students, faculty and staff of IKGPTU for entering into another year of their scholastic and professional pursuits.

The assay mark of an ultimate educational institution is to provide quality education. It should consist of a chain of developments that lead to the holistic growth of its students and thereby contribute to the plentiful progress of the state and the country. This is where IKGPTU has become a name to reckon with. Its

annual activity the report 'Campus Mirror' is a manifestation of the same.

I am apprised that over the past few years, the University has done creditable work through providing quality technical education, conducting need-based research and spreading valuable innovations to society. Through a variety of technical and professional courses being offered at its Campuses and affiliated colleges, IKGPTU is serving the global needs of almost all the segments of society.

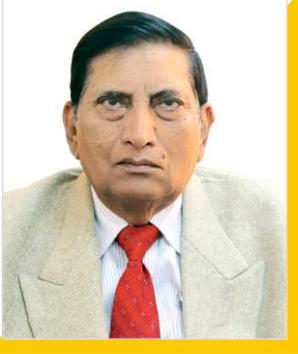
The university, to bring its academics at par with norms of AICTE and UGC, the apex bodies of higher education in country, has introduced various revolutionary and positive changes in its academic system such as implementations of Choice Based Credit System, modifications in the nomenclatures, teaching schemes and curriculums of various courses and effective examination system. The development of finishing schools and incubation centers to promote skill development and entrepreneurship is yet another initiative by the University which deserves special mention.

I acknowledge the team IKGPTU for their assiduous task. With its mission to strive for excellence, IKGPTU would be the best option to seek a career.

wish all huge success for their bright future ahead!

  
(Charanjit Singh Channi)

## MESSAGES FROM OUR MENTORS



**Dr. S.K. Salwan**

Chairman- Board of Governor (BOG)  
I.K. Gujral Punjab Technical University

It is with a sense of great commitment and mindful passion that I address our students & stakeholders as we embark upon the upcoming academic year. The new academic year 2020-21 shall bring new opportunities and we hope to stimulate the system by fostering innovations. The annual news letter 'Campus Mirror' is making me feel the pulse of the new era holistic learning and education aimed at by the team IKGPTU in the past academic year 2019-20. With the relentless efforts of the University team in the past academic years, we are at a high curve of the trajectory where we take on the present with futuristic vision and transformational action strategy. We aim to broaden the goals of education to better prepare students

for the demands of their future lives. As we move globally from the information to the Conceptual Age, the future belongs to a society of Creators, Innovators, Empathizers, and Meaning-makers.

With our focus thus, on empowering education, inventive and creative thinking, effective communication and high productivity, we are ready as an institution to provide requisite training for the development of these skills among our students. I am sure University, its campuses, and affiliated institutes will prove to be catalyst to serve the needs of the industry. We aim to nurture independent thinkers, creative entrepreneurs and most importantly, good human beings.

I look forward to welcoming you all to be a part of this outstanding, transformational experience at IKGPTU.

(S.K. Salwan)

## MESSAGES FROM OUR MENTORS



**Sh. Anurag Verma IAS**

Principal Secretary,  
Technical Education &  
Industrial Training  
**Govt. of Punjab**

I feel elated in extending a warm welcome to all the enthusiastic and vibrant aspirants of the I.K. Gujral Punjab Technical University at the start of the new academic session 2020-2021. I am also recognizing the past year activities in University's annual activity report 'Campus Mirror'. I congratulate you on joining this golden organization where innovation is the buzzword and the culture for excellence in education is nurtured with loving guidance and passionate zeal. This glorious institution is working with an avowed mission to boost learning for the students.

IKGPTU is playing a pivotal role in the development of Punjab through its remarkable role in technical education, skill development, and human values. The main endeavor of pursuit is to impart a perfect amalgamation of ancient Vedic values, modernity, entrepreneurship, and ethics amongst our dear students.

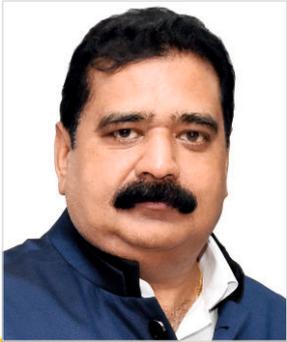
Education is undergoing manifold changes while integrating with the information superhighway and panorama of technology that can boost learning for students. Our pedagogy delves deep into the realms of holistic growth, which assist our young rookies to convert challenges into opportunities. We make relentless efforts to explore, kindle and nourish the hidden potential and talent of all the members of the community and at the same time enhance analytical skills, creativity and innovation imbued with moral values to make an individual humane in thought and action. The time which you spend at IKGPTU during your seminal years, will hone you to embark upon your journey dentlycon and soar ahead with an outstanding take-off.

Once again, I shower my affectionate greetings on the promising intellects and assure you that the portals of IKGPTU will support you to realize your potential and become valuable contributors to the society

*Anurag Verma*

(Anurag Verma)

## MESSAGES FROM OUR MENTORS



**Prof. (Dr.) Ajay Kumar Sharma**

Hon'ble Vice-Chancellor

It is a matter of great delight for me to be a part of I.K. Gujral Punjab Technical University as its Vice-Chancellor. I wish to take this opportunity to welcome the students from all parts of the world, joining our Campuses and affiliated Colleges for pursuing their career in various technical and professional courses. 'Campus Mirror' is an elevated instance to admire the profound efforts of all who worked day and night to open up vistas of opportunities and so to groom the personalities of all stakeholders.

Talking of credentials, over a couple of years, our University has created a history of attainments in the domain of technical education, the most recent being the ranking of the University among the 200 best Engineering Institutes of the country, ranked 104th in India by the National Institutional Ranking Framework (NIRF-2020). Through state-of-the-art scholastic and research infrastructure, application-oriented teaching pedagogy, highly qualified and dedicated faculty in their respective fields of expertise, the institution has developed and calibrated an education system that focuses on imparting knowledge as well as grooming life skills. That's why today IKGPTU is being recognized across the world.

We at IKGPTU believe that a healthy education system serves as a significant driver in the progress of any country so we are working with the key objectives of excellent teaching, students' holistic development, valuable research and social responsibility. Various endeavors of the University in this regard including collaborative partnership with business, government, and other research institutions; tie-ups with industries for training and placement of students; development of finishing schools; establishment of incubation centers to promote skill development and entrepreneurship; phenomenal assistance to the students and the affiliated institutes through online university portals are indeed exemplary. The second edition of 'Campus Mirror' is in my hands, highlighting the ideas of continuity, synergized creativity, dynamism, institutional & Individual growth, etc. to quote a few.

Our endeavor and my commitment are to help our students generate innovative ideas, knowledge, and skills requisite for social benefits and to ensure that they are not only good at academics, efficacious employable graduates and successful entrepreneurs, but also become responsible citizens with high integrity and social behavior.

I wish and assure you, on behalf of the IKG PTU family that we shall help you pursue your objectives of life under the varied social, cultural and economic environment and make the University family proud of your attainments.

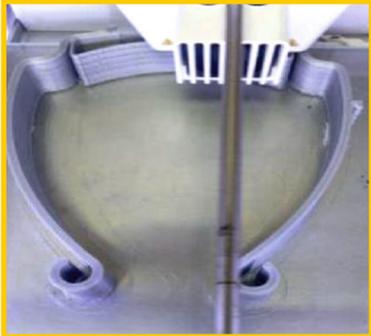
May you flourish! May you be the guiding lamp for the world and may your light always shine and enlighten the world!

(Ajay Kumar Sharma)

# Initiatives during COVID 19 Pandemic

Taken by University,  
Its Campuses & Affiliated Colleges

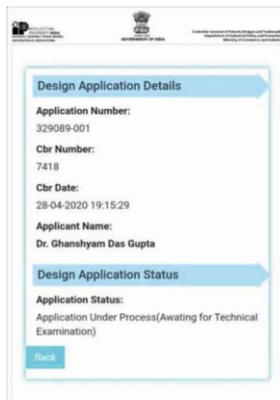
## PROJECT-1

Name of the college / Institute	I.K.G. PTU Main Campus
Name of Department	Department of Mechanical Engineering
<b>Tech-Interventions Developed / Deployed for containing COVID 19 and Managing Post-COVID Revival Phase</b>	
Title of Tech Intervention	<b>Face shields for Medical Staff and Doctors</b>
Sector (for example Health/ Education Livelihood/ Digital Platform / Value Chain/ Any other)	Medical
Brief Description	To support the medical staff & doctors, who are fighting daily to save the lives of humans from COVID 19, University developed and manufactured a very unique product, i.e., Face shields. This initiative was supportive to fulfill the urgent need of Indian Medical Research Association (IMRA) for Doctors and Nurses who were treating COVID19 patients. In the month of September 2018, an MOU was signed between Tata Technologies and IKGPTU on the initiative of State Government. The agenda of MoU was to uplift and promote Technical Education in the state by establishing Centers for Innovation, Invention & Incubation (CIITs) in the state. This initiative was taken by these CIITs. The target of University was to manufacture 2000 face shields for Kapurthala, Jalandhar and other nearby districts and team successfully handled it.
Status (Conceptualized/Pil/Deployed)	Deployed
If Piloted / Deployed, Action taken & Location there of	The product has been delivered to the target staff and is being used for inhouse staff also.
Photographs	   <p style="text-align: center;">With Turban                      Without Turban</p>



**Tech-Interventions Developed / Deployed for containing COVID 19 and Managing Post -COVID Revival Phase**

Title of Tech Intervention	<b>Wearable Infection Protection Ring</b>
Sector (for example Health/ Education Livelihood/ Digital Platform / Value Chain/ Any other)	Medical (Health Science)
Brief Description	<p>The main source of infection covid-19 is mouth/face. The purpose of this ring is to act as an obstacle in touching the mouth. It is to be worn in thums of one hand or both hands because it is the habit of person to regularly touch the mouth by hands 16 to 20 times in an hour. If a person wears this ring he/she can be made aware of first cleaning or sanitizing his/her hands. The virus that causes COVID-19 is mainly transmitted through droplets generated when an infected person coughs, sneezes, or speaks. These droplets are too heavy to hang in the air. They quickly fall on floors or surfaces. You can be infected by breathing in the virus if you are within 1 metre of a person who has COVID-19, or by touching a contaminated surface and then touching your eyes, nose or mouth before washing your hands. Initiative is taken by business incubation centre coordinator (approved by MSME) Dr. G. D. Gupta who developed wearable infection protection ring.</p> <p><b>APPLICATION :</b></p> <p>Covid 19 main source of infection is direct from mouth and Nose (droplets/sneezing) or by hand to touch face – eyes, ear, nose and mouth. Covid Protective ring acts as an obstacle in touching the mouth wearing. By wearing it, person easily comes to know about cleaning or sanitizing hands before touching own mouth. No obstacle while doing routine work, office work or working an, computer etc.</p>
Status (Conceptualized/Pil/Deployed)	"Confirmed"
If Piloted / Deployed, Action taken & Location there of	<p>The product has been developed and tested by some staff by wearing this ring. This ring is prepared by plastic material. It is very economic and suitable to all age groups. After post covid, this ring will be helpful to avoid hand touching to mouth by habit.</p> <ul style="list-style-type: none"> <li>• This ring will be very helpful to provide protection from corona virus. The product is a prototype which is currently being prepared and tested.</li> <li>• We have already applied for the design patent.</li> <li>• Hope that this small innovation will contribute to society and protect us from corona virus</li> </ul> <p><b>Specification :</b> a. Length : 3- 4 cm. b. Length of horizontal Groove : 2 to 3 cm c. Diameter : Easy to bear in thumb left and right : 2.5 to 3.0 cm. d. Easy to wash e. Easy to remove f. Easy to sanitize by any sanitizer/washing with soap g. No obstacle to handle routine work-reading, computer operating, office work etc.</p>
Photographs	<p><b>Wearable Infection Protection Ring :</b></p> <p>a. Side view b. Top view c. Top view back side d. Front View e. View in angle</p>  <p align="center"><small>Fig. :Wearable infection Protection Ring (Photo in Different position) by Prof. (Dr.) G.D. Gupta, Professor, ISFCP</small></p>



### डॉ. गुप्ता ने बनाई कोरोना वायरस से बचने की रिम



रिम को रिलीज करती प्रवीण गर्ग, डॉक्टर जी.डी. गुप्ता, उप प्रिंसिपल डॉ. आर. के. चारंग। (संकेत)

मोगा, 2 मई (गोपी रावत) : राज्य की प्रमुख शिक्षण संस्थान आई.एस.एफ. कॉलेज ऑफ फार्मसी में कार्यरत डॉ. जी.डी. गुप्ता डॉक्टर ने एक नई रिम को बनाया है जिसका नाम वीएएनएल डी-एनए प्रोटीन रिम दिया है। कोरोना वायरस को जड़ से खत्म करने के लिए, बनाई गई रिम को संस्था के वीएनए प्रवीण गर्ग, डॉक्टर जी.डी. गुप्ता, उप प्रिंसिपल डॉ. आर.के. चारंग ने संयुक्त तौर पर रिलीज की। डॉ. गुप्ता ने बताया कि इस रिम को पहनने से इस वायरस से बचने में सहायता मिलेगी। इसका डिजाइन ब्रिटेन सरकार के 'नई' वायरस को रोकने के लिए किया गया है। डॉ. गुप्ता को इस बड़ी उपलब्धि पर सचिव डॉ. जी. जनेश गर्ग, डॉ. प्रमोद गर्ग, डॉ. पूजा चारंग, श्री. अमित शर्मा, सौरभ कोरे, रेखा अरिया, विष्णु भास्करन एवं समूह स्टाफ ने बधाई दी।

#### PROJECT-4

Name of the college / Institute	ISF College of Pharmacy, Moga (invented by Dr.Sankha Bhattacharya)
Name of Department	Pharmaceutics
<b>Tech-Interventions Developed / Deployed for containing COVID 19 and Managing Post-COVID Revival Phase</b>	
Title of Tech Intervention	<b>Ifenprodil Delivery using Lipoplexes (cationic liposomes) for the treatment of Coronavirus (COVID-19)</b>
Sector (for example Health/ Education Livelihood/ Digital Platform / Value Chain/ Any other)	Health
Brief Description	Coronavirus (COVID-19) deteriorating our health ethos by leaps and bounds. It has transmuted from a disease to global Pandemic. Already millions of people have already died and reset are affected with COVID19. Situation are getting worsen day by day. Government is trying its best but COVID-19 has already cemented itself in stage three. From here onwards, the chances of its outbreak become more prone. However, US government has claimed to have tested world first vaccine on COVID-19. But its efficacy and affectivity are still unknown. Hence, it is necessary to prepare a suitable formulation which could show some resistance against COVID-19. We planned to prepare and introduced this world with new concept of Ifenprodil (An effective inhibitor of the NMDA receptor, specifically of GluN1 and GluN2B subunits) drug delivery using Lipoplexes (cationic liposomes) which could be capable of annihilate the outbreak of Coronavirus stage 3 infection. Novelty: The cationic liposomes or Lipoplexes can be prepared by using dioleoylphosphatidylethanolamine (DOPE) and cholesterol with a molar ratio, 3:2. The preparation can be developed using ethanol injection method. Lipoplexes are capable of delivering genes along with any drug carrier. Objectives: The main objective of this research is to develop a best targetspecific, selective, novel siRNA conjugated Lipoplexes drug (Ifenprodil) carrier system for the treatment of Coronavirus (COVID-19)

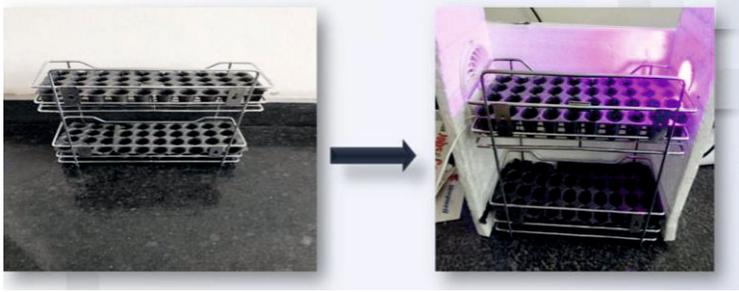
Status (Conceptualized/Pil/Deployed)	We have already taken some trial batches in our NBL accredited laboratory. The initial trial was promising. However, the concept of the project was submitted to Science and Engineering Research Board (SERB) under Intensification of Research in High Priority Areas (IRHPA) scheme, Government of India and consideration for the Evaluation [SERB_ File Number: IPA/2020/000046]
If Piloted / Deployed, Action taken & Location there of	Pilot scaleup has given full consideration in post lockdown period

#### PROJECT-5

Name of the college / Institute	ISF College of Pharmacy, Moga
Name of Department	Department of Pharmacognosy, ISF College of Pharmacy, Moga

#### Tech-Interventions Developed / Deployed for containing COVID 19 and Managing Post-COVID Revival Phase

Title of Tech Intervention	<b>Design and development of Kitchen Basket: To Maintain Social Distancing in Vegetable Market</b>
Sector (for example Health/ Education Livelihood/ Digital Platform / Value Chain/ Any other)	Medical (To maintain Social distancing)
Brief Description	<p>On the demand side, people are stockpiling shelf-stable food, like processed fruit and vegetables. On the supply side, companies are struggling to meet this demand due to labour and logistics capacity issues. Vegetables market could be a source of COVID-19 spread. The present invitation can help reduce the risk of common foodborne illness such as Covid 19. The kitchen basket is a step to maintain social distancing as everyone needs vegetables in daily life and purchasing vegetables during this pandemic situation is not safe because it might be harmful for the individuals. The idea is to provide homely, healthy and nutritious green vegetables to the people. It need less space and one can grow the desired vegetables free from harmful chemical and unhealthy water as per their need. The present invitation can help reduce the risk of Covid 19 illness and control the social distancing. The people no need not go to vegetable market.</p> <p>Kitchen basket also requires less space and even the user need not worry about the light, aeration and other harmful conditions as this basket has its own light and air circulation facility. Moreover the desired variety of edible plants when cultivated under observation assures optimum nutrition value and numerous advantages in order to stay healthy by reducing risk of gastrointestinal and excretory disorders</p>
Status (Conceptualized/Pil/Deployed)	We have prepared the prototype. We are doing on working model. Six vegetables (Some selective vegetables cultivated are-Wheat grass, Methi, Tomato, Okra) have been grown and now we are working on more vegetables.

<p>If Piloted / Deployed, Action taken &amp; Location there of</p>	<p>Currently, we are working at ISF college of Pharmacy, Pharmaceutical Biotechnology lab. We are also in touch with some home appliances for the funding.</p>
<p>Photographs</p>	 <p>Design and development of Kitchen Basket: To Prevent Social Distancing in Vegetable Market. Vegetable Produced: Wheat grass, Methi, Tomato, Okra.</p>

<p><b>PROJECT-6</b></p>	
<p>Name of the college / Institute</p>	<p>ISF College of Pharmacy, Moga</p>
<p>Name of Department</p>	<p>Pharmaceutical Chemistry</p>
<p><b>Tech-Interventions Developed / Deployed for containing COVID 19 and Managing Post-COVID Revival Phase</b></p>	
<p>Title of Tech Intervention</p>	<p><b>Molecular mechanism how hydrochloroquine impact COVID19.</b> <b>Modification of Flavipiravir/Oseltamivir to more potent Antiviral.</b></p>
<p>Sector (for example Health/ Education Livelihood/ Digital Platform / Value Chain/ Any other)</p>	<p>Education Livelihood</p>
<p>Brief Description</p>	<p>What is common in each category of drugs undergoing clinical trials for COVID-19 is that some possess ethanolamine pharmacophore. Ethanolamines are used in heavy duty liquid laundry detergents, reserves alkalinity and neutralize fatty acids present in the oily components and convert them into amine soaps. Our aim is to modify the drug Oseltamivir/Flavipiravir which may be found to be effective against COVID-19. Here we propose approach of combining Oseltamivir/Flavipiravir with the ethanolamine derived conjugate. Ethanolamine is known to balance hydrophilic/hydrophobic balance and its detergent action dissolve the lipid membrane of the corona virus and make it ineffective in anchorage to the ACE2 receptors present in lungs alveoli, spleen, intestine and liver. Next is that after reaching inside the cells the drug may dissociate under acidic condition (hypoxia condition; carbonic acid formation) into cyclized oxazolidin-2-one. The oxazolidin-2-one is known to possess antibacterial properties and are present in many antibacterial compounds such as Linezolid, Posizolid, Tedizolid, Redezolid (antibacterial), Cycloserine (antitubercular) and Contezolid (phase III) and Rivaroxaban approved by FDA for venous thromboembolism.</p>

**PROJECT-7**

Name of the college / Institute	Khalsa College of Engineering & Technology, Amritsar
Name of Department	Department of Computer Science & Engineering
<b>Tech-Interventions Developed / Deployed for containing COVID 19 and Managing Post-COVID Revival Phase</b>	
Title of Tech Intervention	<b>Smart Doctor's Trolley for COVID 19</b>
Sector (for example Health/ Education Livelihood/ Digital Platform / Value Chain/ Any other)	Health
Brief Description	<p>Smart Doctor's Trolley for COVID 19 is the IoT with Machine learning based project which is used to assist doctors in the COVID 19 crisis. COVID 19 termed as coronavirus disease also is an infectious disease which is transmitted from human to human. This disease is first broke out at china in 2019 and then spreads in a whole world rapidly. The complete world is badly affected by this disease and more importantly the doctors who are the ones to deal with such patients after knowing that this is an infectious disease.</p> <p>Smart Doctor's Trolley for COVID 19 consist of various sensors which sense or monitors the patient body temperature, heart beat rate and oxygen rate in blood. Data collected from these sensors used to predict the recovery time of patients.</p> <p>In this, we design a smart trolley which carries the major sensors to monitor the patient health, food and medicines and controlled by a remote. Nurse can send the trolley to patient and trolley performs all the task of the nurse. Same trolley can be used for different patients as we define patient id as the unique id to identify the patient. Before using the sensors the patient sanitizes their hands using the sanitizer installed on trolley which is also automated, no need to touch the sanitizer.</p> <p>Data collected by the sensors regarding the patient's body temperature, heart beat and oxygen rate is further used to predict the patient's recovery time.</p> <p>The whole project discussed under the headings which are as follows:</p> <p><b>Objectives:</b></p> <ol style="list-style-type: none"> <li>1. Reduce the interactions of doctors and nurses with the COVID19 patients.</li> <li>2. Smartly monitors the health of patient.</li> <li>3. Reports are generated to predict the recovery time of patient.</li> <li>4. Doctors wear PPE suits for lesser time and can be saved from various skin diseases causing due to sweat by wearing PPE suits.</li> </ol> <p><b>Motivation:</b></p> <p>COVID19 spreads from human to human at very high rate and the doctors who treat and nurses who take care of such patients are at high risk of suffering from COVID 19. In many countries like china, Italy and America doctors lost their lives by treating COVID 19 patients. Hence, with the help of advance technology we motivate to build such an automation system where doctors and nurses intervention can be reduced. Moreover, they can be protected from exploring themselves in COVID19 situation.</p> <p><b>Scope:</b></p> <p>This project can be implemented in the field of healthcare as this will reduce the point of contact between doctors and COVID19 patient, The spread or transfer of COVID 19 can be controlled.</p>

Status (Conceptualized/Pil/Deployed)	Work in progress
If Piloted / Deployed, Action taken & Location there of	Action not taken yet.
Photographs	<p>camera sensor used to click picture of patient</p> <p>Body temperature sensor</p> <p>Oxygen sensor</p> <p>Pulse rate sensor</p> <p>Blood pressure sensor</p> <p>Speakers to acknowledge patient</p> <p>Ultra sonic sensors used to work sanitizer automatically</p>

### PROJECT-8

Name of the college / Institute	DAV Institute of Engineering and Technology, Jalandhar
Name of Department	Department of Mechanical Engineering
<b>Tech-Interventions Developed / Deployed for containing COVID 19 and Managing Post-COVID Revival Phase</b>	
Title of Tech Intervention	<b>Hand Held Key to eliminate direct contact with surfaces</b>
Sector (for example Health/ Education Livelihood/ Digital Platform / Value Chain/ Any other)	Can be deployed in every sector as an aid to minimize the contact with surfaces and hence prevent transfer of virus.
Brief Description	This is a simple hand held device which can be employed, without making a physical hand contact with the surface, to open the door by pushing or pulling, press the elevator/ATM buttons. This will also aid in rotating the door knob, open the water tap by rotating the spindle, open the car door and can even be used to carry the grocery bags, thus preventing physical hand contact with all of these surfaces.
Status (Conceptualized/Pil/Deployed)	3-D printing of the prototypes have already been made after preparing the requisite design. Mass production will be shortly initiated using injection moulding.
If Piloted / Deployed, Action taken & Location there of	The prototypes are available with the institute.
Photographs	

# Mission Fateh: Fight against COVID 19

In the visionary leadership of Chief Minister Captain Amarinder Singh Ji, Government of Punjab initiated a campaign "Mission Fateh". Its symbolises the resolve of the people of Punjab to halt the spread of the Novel Corona virus through discipline, cooperation and compassion. Discipline in observing all precautions, cooperation with the state government by faithfully abiding by the lockdown restrictions and compassion towards the needy by helping them and giving them aid. It is the true reflection of the Punjabi spirit that can overcome all odds to emerge victorious.

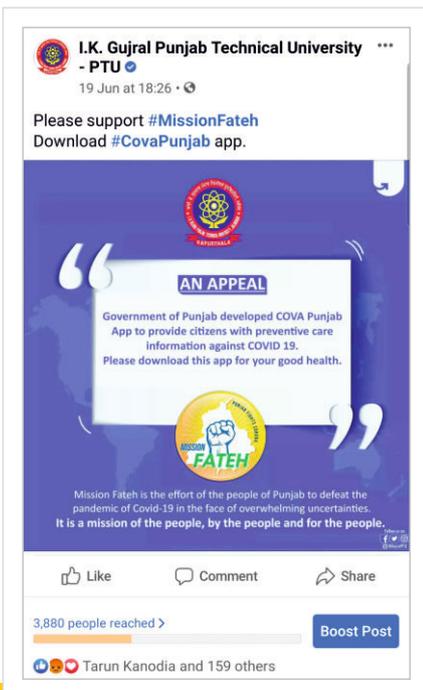
In order to create awareness about the COVID-19 especially at a time when a lockdown is released but the fight against Corona virus is still on, an awareness drive has been initiated.

**I.K.Gujral Punjab Technical University participated in this campaign with full of enthusiasm and start awareness on 11 below points:**

1. Wearing masks
2. Washing hands
3. Maintaining social distancing
4. Taking care of the elderly
5. Remaining vigilant about entry of outsiders in the locality
6. Use of COVA App to track patients of the virus and maintaining a safe distance from them
7. Importance of home quarantine
8. Symptoms of the flu and action thereafter
9. Restrictions during Lockdown or curfew and penalties /fines in case of violations
10. Community mobilisation to jointly fight against the pandemic
11. Emphasising that the threat of the virus has not diminished, rather it has become more.

Hon'ble Vice Chancellor Prof. (Dr.) Ajay Kumar Sharma motivated University team to start awareness campaign at District Kapurthala village level. In the command of Joint Registrar Dr RPS Bedi, teams visited door to door by maintaining social distance & aware the villagers about Mission Fateh.

University's Public Relations Office in command of PRO Rajneesh Sharma also participated in this campaign & aware masses through Social Media & Print Media.





# Entrepreneurship Week

Business Plan Competition & An Interactive Session with Celebrity B.M. Sharma were also organized

Entrepreneurship Week was organized from March 25th to March 29th, 2019. The motive of this week was to generate the initial spark of innovation in the students of University main campus. On this occasion, Prof. (Dr.) Ajay Kumar Sharma, Hon'ble Vice Chancellor inspired and motivated the students and said that "To achieve maximum in professional life, everyone should be with his or her maximum capacity & on high willingness. Today's success mantra depends upon maximum utilization of sharp minds as entrepreneurs." Defining Entrepreneurship in a simpler way he said that " it is the activity of setting up a business or businesses, taking on financial risks in the hope of profit." He encouraged the students to not to be only a job seeker but a job provider .

Mr. Kaushal Singh, B. Sc. (Agriculture) final year student of IKG PTU affiliated college (GIMET Amritsar), shared his entrepreneurial journey with the students during the inaugural session. He also shared ups & downs faced by him during his business of sugarcane products with the brand



name Cane Farms. He told students that "Never Say No" is the success mantra. During this Week, Rs. 200 Venture and Business Plan Competition were also organized. Students from all departments participated in these competitions. Entrepreneurial short movies were also shown to the students. An interactive session under startup was also organized. Mr. B M Sharma, Addl. Managing Director (D), Markfed & famous Punjabi

Comedian interacted with students.. He motivated the students to come up with the Agri Startups and assured them that their initiative would be connected to customers. He also inspired the students by sharing his story of following passion along with the job. Er. Navdeepak Sandhu, Deputy Director, presented "Token of Love" to Mr. B M Sharma, AMD (D), Markfed.

## Ist Film Festival

APJ College of Fine Arts Jalandhar bagged "Best Film Award", HMV got 2nd position

First Inter-Institutional Film Festival was organized by the Department of Journalism & Mass Communication. On this occasion Prof. (Dr.) Yadwinder Singh Brar, Campus Director IKGPTU read the message of Hon'ble Vice Chancellor IKGPTU Prof. (Dr.) Ajay Kumar Sharma. He said that Cinema is the most powerful medium of communication. It is a mirror in which we often see our self and face of the society. This is a beautiful means to communicate with the masses. Students during their education get to learn the process by

making short movies or documentaries. Prof. Brar said that such events boost the confidence of the students and encourage them to come forward. The guidance of the mentors further sharpens their inborn talents.

Total 08 institutes participated in the short movie contest during the fest. APJ College of Fine Arts Jalandha was awarded First Best Film and Best Director award for 'Block Over Thinking'. Second award for Best Film and Best Actor for 'Log Out Zindagi' was won by HMV Jalandhar. PCTE Baddowal (Ludhaina) won the titles for Best

Editing, Best Art work and Best Concept Movie for their film 'Game of life'. 'Hustler' by Doaba College got the award for Best Poster.

During the event, "Ganesh vandana" was also performed by university students.



## Seven-Days NSS Camp

More than 350 NSS Volunteers participated in the camp with zeal and enthusiasm

A Seven day NSS Camp was organized at the main campus. University's initiatives like e-resources, online examination system, on screen evaluation system etc were introduced by Prof. (Dr.) Ajay Kumar Sharma Hon'ble Vice Chancellor during the camp. On this occasion he encouraged the volunteers to come forward and work for the society. He said that NSS camps are very much important for the overall development of students. These camps are helpful to strengthen the life style of youth and their commitments towards society. On this occasion, IAS D.P.S Kharbanda, Deputy Commissioner of Kapurthala, also addressed participants as special guest. He focused on the importance of vote. DC Kharbanda motivated the

students to exercise their right to vote during Lok Sabha elections . He said that instead of getting jobs, students need to become job-oriented entrepreneurs and establish small enterprises. He said that the students could take advantage of the government schemes to set up their small enterprises. On this occasion, the Joint Registrar of the University Dr. RPS Bedi said that apart from participants from 14 different colleges in this seven-day camp, more than 350 NSS volunteers of University Main Camps worked in main campus & surrounding villages. He said that under the project, free medical checkups, Yoga activities and cultural activities were organized in the village of Dhpa. Cleaning of the football

and cricket ground and Village survey were also done by the volunteers. University Registrar Dr. SS Walia thanked the guests and said that the University adopted the villages around them and in these villages, University regularly organizes programs. Welcome Note was read by Dr. Jagmeet Bawa. Stage was conducted by Dr. Anshu Bhasin. On this occasion, NSS Campus Unit Program Officer Dr. Sarabjit Singh Mann, Dr. Manpreet Kaur, Dr. Pinki, Ms Geeta Verma, Ajay Kumar, Yuvraj Singh, Ishan Rana, Amritpal Kaur, Neha Thakur, Amanvir Kaur, Ramanjit Kaur Bhangu, staff and students were present.



## Students brought Laurels

One student achieved 3rd position in Huawei ICT Skill India Competition, another student achieved 2nd position in Innotech-2019

Ankit Gautam, of B. Tech. CSE 6th semester brought laurels to the University. He secured 3rd position amongst 3000 participants in the National Finals of "Huawei ICT Skill India Competition 2018-2019" organized. He was honoured with Trophy, Certificate and Huawei Smart Phone at an award ceremony held at Huawei Gurugram Office. He had been shortlisted to participate in a fully sponsored International Competition of Huawei ICT Global Finals scheduled at Shenzhen, China in May, 2019.

Another student Manjinder Singh from B Tech CSE 4th semester stood 2nd in the Competition "Innotech-2019" held at Pushpa Gujral Science City, Jalandhar on (DATE) by sharing his innovative idea on Digital Learning amongst 30 participants across state of Punjab. Hon'ble Vice Chancellor Prof. (Dr.) Ajay Kumar Sharma and HOD, Department of Computer Science & Engineering along with faculty members congratulated Ankit and Manjinder for their prodigious achievements.



## Science Fair

Science Fair was jointly organized by University's Physics, Chemistry & Mathematics Department

One day Science Fair was organized by the Department of Physics, Chemistry & Maths. On this occasion, District Education Officer M S Sidhu was the chief guest. The theme of this fair was 'People for Science and Science for People'. The aim of this science fair was to keep the importance of science and to strengthen its utilization. Its aim was to develop scientific understanding in the students.

During his address, District Education Officer M S Sidhu said that Science is the basis of any country's progress; it is not necessary that science is the responsibility of a particular scientific community. Every common man can also create an interest in Innovation and Connect himself with science & Technology. Anyone can contribute in the development of Nation through science.

On this occasion, Dr. Rohit Mehra from Dr. B.R. Ambedkar National Institute of Technology (NIT Jalandhar) and Dr. V.K. Garg from Central University Bathinda were the keynote speakers. They talked about the energy-rich nation & provided information to students on the importance of nuclear energy and its widespread utilization.



They emphasized on ensuring sustainable development through the saving of science. These two subject experts created a questionable dialogue with the students. Poster Making, Quiz and Model Exhibition were also organized on this occasion. Students from affiliated institute i.e. CEC Landran & DAVIET Jalandhar also participated in the Science Fair.



## Food Science-Technology and Hotel Management students participated in PAU Fair

Food Industry and Craft Mela was organized at Punjab Agricultural University, Ludhiana on Oct 20th 2019. This Mela was of recent origin, started in the year 2014 and is primarily targeted at developing cooperation between industry, academia, research, raw material producers and the consumers. The focus of the event was on accelerating the interactions between food industry, academia, research institutes, self-help groups, farmer producer organizations, young entrepreneurs and students working in the field of agro-processing. This Mela intends to provide the platform to the budding entrepreneurs especially from the rural areas to showcase their processed products, get exposure to state-of-the-art technologies in the fields of food processing. Students of Department of Food Science & Technology and Hotel Management from

I.K.Gujral Punjab Technical University won Award of Appreciation for maximum participation in this event. The students had put up a stall where they showcased various nutritive food items. The students sold various food items like, Su-te Khir, LOC Kebab, Monaco Sandwich, Poha Cotoletta along with various mocktails like, Masala Mojito, Lemolina Mocktail. A student from M.Tech had managed to sell homemade pickles. Being from Food Science and Hotel Management background, students did provide the knowledge of nourishing and wholesome food to the visitors beside the PAU university staff. Director Main Campus Prof. (Dr.) Y.S.Brar & Head Dr Rajneesh Kant Sachdev congratulated the faculty and students.



## An Expert Talk on Mathematical Science



An expert talk on Mathematical Science was organized by the department of Mathematical Sciences. On this occasion IITian Prof. Manoranjan Mishra from IIT Ropar was the resource person. He Focused upon the applications of mathematics in various fields. He motivated the students to take up Mathematics as one of their major subjects to meet the growing demand of mathematicians in the world. Prof. Mishra said that Mathematicians are desirous in research field of almost every subject of science and technology, may it be chemical sciences, life sciences, medicines, physics and engineering. He demonstrated the live examples of direct applications of mathematics in fluid dynamics, material sciences and computer science.

The Bhatnagar awardee, Prof. Mishra explained about the various avenues after pursuing graduation and post-graduation in Mathematics and responded to the queries of the students.

Mathematics is not a subject only, it is a way to understand various subjects that's why Mathematicians are on high demand at world level, he concluded.

Dr. Ashish Arora, Head of the Department of Mathematics, informed that the department has started B.Sc. (Honours) program in Mathematics to cater the demand of Mathematicians in the world. M.Sc. and Ph. D. programs in specialized subjects of Mathematics are already being run in the department.



## Alumni Bhushan Kumar selected by UPSC

Vice Chancellor Dr. Ajay Kumar Sharma congratulated the alumni

Alumni of the university, Sh. Bhushan Kumar got selected under special provisions by UPSC on (DATE). He passed B.Tech Mechanical engineering from University's affiliated Institute GNE Ludhiana 1995-99 batch. At the age of 40, He is the youngest among 9 selected by UPSC.

Before his selection, Bhushan Kumar was working as General Manager with GSPC LNG Limited as Head of Shipping, Business Development and Contracts departments. With the experience of over 20 years in Shipping and Projects, he played key role in several projects at different ports in India. His experience would be useful for Ministry of Shipping in implementing their flagship Sagarmala Project having several projects of more than 4 lakh crore.

On his success, Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor IKGPTU congratulated him and said that brilliant students are lifetime assets for an institution and Bhushan Kumar is one of them.



## USA based University invited Dr. Varinderjit Singh as a Guest Faculty

Dr. Varinderjit Singh is faculty of Dept. of Physical Sciences

Dr. Varinderjit Singh received an invitation from USA based Indiana University, Bloomington to join as guest faculty. In the last week of May 2019, this faculty member received an opportunity letter from Mr. Romualdo De Souda, Provost Professor of Chemistry and Physics Dept. Indiana University Bloomington. The appointment would be for an initial 12 month period beginning Nov. 01, 2019 and for this period he would be paid 50,000 dollars. They invited Dr. Singh for his research interests in relevant fields.

On this occasion, Vice Chancellor IKGPTU Prof. (Dr.) Ajay Kumar Sharma congratulated Dr. Varinderjit Singh and allowed him to accept this opportunity. He said that University Board always encourage the team members to work on National & International opportunities in order to gain maximum exposure.



# Annual Sports: Awards Distribution Function

Director Sports Punjab, IAS Amrit Kaur Gill was the Chief Guest of Ceremony

The Annual Sports Awards Distribution function held at the main campus.

On this occasion, Director Sports Punjab IAS Amrit Kaur Gill, was the chief guest. Dr. R.P.S. Bedi Joint Registrar IKG PTU & Head of Youth Affairs department welcomed all the guests & students. During his address, Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K. Gujral Punjab Technical University said that despite being the technical education institute, University has always encouraged sports in its campuses and affiliated colleges. He further said that in order to keep youth away from drugs, their participation in games must be encouraged. He reiterated the efforts of the University's NSS, Sports and Cultural Wing. He also reiterated the promise of the University management about all-round development of the

younger generation.

Director Sports Punjab IAS Amrit Kaur Gill said that the games are essential to maintain physical fitness. The games also offer employment and social respect. She appreciated the better efforts made by the University and encouraged the students to participate in sports along with education curriculum.

On this occasion, Hockey Olympian Gurbaj Singh, who joined event as a special guest, encouraged students of Punjab to join Hockey

During the function, Guru Nanak Dev College of Engineering, Ludhiana was honored with the overall trophy, while runner-up trophy was received by Chandigarh Engineering College, Landran. Second Runner-up Trophy was delivered to DAV Institute of Engineering and Technology, Jalandhar. A student Harshvir Singh Sekhon was honored with the gold medal in the cycling competition and another student Neha was awarded with a cash prize of Rs 30,000 for her best performance in the Rangoli Competition of North-Regional Youth Festiva held at Punjab University, Chandigarh.

The vote of thanks was given by the NSS Coordinator Dr. Jagmeet Bawa, while stage was conducted by Assistant Professor Punjabi Dr. Sarabjit Singh Mann.



## B. Vocational Courses started

Students will get Certificate under Skill India  
University Signed MoU with Tourism & Hospitality Skill Council

University signed a Memorandum of Understanding (MoU) with Tourism and Hospitality Skill Council (THSC), Gurugram (Haryana). The aim & motive of this MoU is to develop skilled manpower by the industry for the industry. Under the "Skill India" programme of National Skill Development Corporation (NSDC), University Students will now get certification from Skill Council. On behalf of THSC Dr. Sunita Badhwar, Head Standers signed over MoU & from the side of IKGPTU Dr. Sukhbir Singh Walia, Registrar signed on it. Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor IKGPTU presided over the ceremony as Chief Guest.

During the ceremony, VC Prof. (Dr.) Sharma said that MoU will establish a new skilled education on era of New Skill Development Education educated, certified & skilled manpower to Tourism & Hospitality industry. He said that the capacity & spirit of IKGPTU, its constituent campuses and affiliated colleges academia is very high to develop & serve the industry oriented pedagogy, syllabus & practicals. This initiative was also on high demand of state Tourism & Hospitality industry side.. VC Prof. (Dr.) Sharma congratulated University's academic department

for this initiative.

Deputy registrar College Development Dr. Ekonkar Singh Johal introduced advantages of these courses. He said that B.Voc. Courses will offer multiple entries & multiple exits to admitted students. The students of these courses will get diploma certificate at the completion of one year, and after completion of two years, students will achieve Advanced Diploma certificate. At the time of complete three year course, student will get B. Vocational graduation degree.

Authorities from University's affiliated colleges like Dr. Gurpreet Kaur, Principal Ramgarhia Institute of Management & Advanced Studies Phagwara, Naresh Trahan, Principal Allied Institute of Hotel Management Mohalal, Dr. S.K. Sood Principal KCL Institute of management & Technology Jalandhar, Dr. Vijay Banga, Principal Amritsar College of Engineering & Technology, Dr. Sanjay Behl, Principal Pyramid Colleges of business & technology, Dr Sudesh Kumar, Principal Swami Satyanand College of Management & Technology, Ms Sheenu Nayyar Principal Satyam Institute of Management & Technology, Rajesh Kumar Arya, HOD, Global Institute of Management Amritsar were also present on the occasion.



## 03 Residential FDPs on Universal Human Values (UHV) organized

All FDPs were sponsored by AICTE, Vice Chancellor inaugurated FDPs

Three residential faculty development programs (FDPs) were organized on various dates in the month of June-July 2019. These residential FDPs were organized by University part of Induction Programme. Each residential FDP was of 7 days & all were sponsored by All India Council for Technical Education (AICTE). Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K.Gujral Punjab Technical University (IKGPTU) inaugurated the program. On this occasion, he said that generations are facing problems at humanitarian ground, it may be because of differences of thinking level or due to our professional education system. But it is a fact that education on Human Values is the need of the hour. Above all, we must know that first we are Humans and then Professionals. Life is in harmony not in competition. A total number of 205 Faculty members from 13 States of India like Punjab, Himachal Pradesh, Jammu & Kashmir, Haryana, Rajasthan, UP, Uttarakhand, Jharkhand, West Bengal, Tamil Nadu, Bangaluru and Kerala were

oriented through these FDPs.

Besides these 3 FDPs, 8 more FDPs were organized in Himachal Pradesh, Haryana & Punjab. Around 445 teachers from different states of India attended these FDPs too. The key resource persons were Jatinder Narula, Mohit Jain & Vinay Kehar from IKGPTU

IKGPTU also organized 7 Days residential FDP on SIP (Student Induction Program) through UHV during the summer breaks (June - July 2019).

Prof. (Dr.) Ajay K. Sharma, Registrar Dr. S.S. Ahluwalia & Assistant Professor Dr. Jagmeet Bawa motivated faculty members to work on subject Human Values. Dr. Ajay Kumar Sharma shared the vision and efforts being done by University in the field of Value Education. He said that IKGPTU is taking care of around 11 FDPs for North -West Region of India.

Dr. S. S. Ahluwalia, Registrar, IKGPTU focused on the need of the Value Education in current education system. IKGPTU has been making efforts with the core idea that "the role of education is to facilitate the development of the competence to live with human conduct".



## “Industry Academia Collaboration Agreement” with The Indus Entrepreneurs (TiE Chandigarh) signed

Mission to promote innovation & entrepreneurial culture in University campuses & affiliated colleges

I.K. Gujral Punjab Technical University inked an Agreement with "The Indus Entrepreneurs (TiE)" Chandigarh to promote innovation & entrepreneurial cultural in University campuses & affiliated colleges .This agreement named as “Industry Academia Collaboration Agreement” was signed by Vice Chancellor Prof. (Dr.) Ajay K. Sharma from University side & from TiE side it was signed by President TiE Munish Jauhar.

On this occasion, Prof. (Dr.) Sharma congratulated both the teams for this successful start. He also interacted with the core teams of both sides & shared his experiences. He informed that under this collaboration, visits of University Campuses & Affiliated colleges for Entrepreneurship Awareness Camps, Internship Drive & Placement Drive twice in a year exclusively for IKGPTU students will be undertaken by TiE. On this occasion, Er. Navdeepak Sandhu, Deputy Director, Training & Placement IKGPTU also announced TAP Business Plan Competition – 2019. He shared that TAP competition aims to generate the initial spark among the students to develop their ideas into startups.



## Dept. of Journalism and Mass Communication organized expert talk on “Perspectives of Electronic Media”

The department of Journalism and Mass Communication organized an extension guest lecture on 'Perspectives of Electronic Media'. Noted TV Producer of a renowned TV news channel, Munish Devgan was the resource person on this occasion.

Dr. Ranbir Singh, Head of the Department extended a floral welcome to resource person Munish Devgan. In his interaction, the expert stated that in the field of journalism, reading is very important. If you want to become a successful journalist, one should be passionate to get the exclusive news story. He conversed about art of writing in digital and broadcast news and gave basic guidelines and tips for becoming good journalists. He emphasized on the importance of knowledge and command over language and how to make a news story different from other by illustrating examples of online new stories.

Further, he discussed about how to make a news package. He also shared the challenges one has to face while dealing with the practical and challenging environment of media. During the interactive session, many queries of the students were satisfied by the speaker.

In the end, HOD Dr. Ranbir Singh gave a formal vote of thanks to speaker. He praised the speaker for his exemplary command on the language and for sharing his valuable experiences with students.



## University signed MoU with BWSSC to Provide Skilled Manpower

I.K.Gujral Punjab Technical University signed Memorandum of Understanding (MoU) with Beauty & Wellness Sector Skill Council (B&WSSC). The MOU was signed by CEO of B&WSSC Monica Bahl & Registrar IKGPTU Dr. S.S. Ahluwalia in the presence of Prof. (Dr.) Ajay K. Sharma, Vice-Chancellor (IGPTU). Briefing about the strength of this MoU, Prof. (Dr.) Ajay Kumar Sharma said that it is an Initiative to enhance Employment & to give maximum facilitation to students. He said that together the both parties will carry out joint activities including conducting the programs, developing curriculum, conducting research, developing study material and e-learning, acquiring students and trainers, train the trainers, certification, developing training facilities, organizing placements, internships, apprenticeship, on job training & industry visits in collaboration with their associates & partners.

Dr Ekonkar Singh Johal, Deputy Registrar IKGPTU shared that the necessary support in form of content designing, formulating training manuals and assessment standards for

developing NSQF compliant programs at all levels will be provided by B&WSSC. B&WSSC will also help IKGPTU to set up beauty & wellness specific and other relevant training facilities at different locations and support the training programs under government schemes including schemes of National Skill Development Corporation, Skill India, Pradhan Mantri Kaushal Kendra & others

allowing students a vertical mobility into degree programs.

Ms Monica Bahl, CEO said that for any activity such as – Research Projects, Corporate Training Programs, Online and Distance Programs or Management Development Programs etc. of IKGPTU will be recommended to its associates



## Dept. of Journalism celebrated 'WORLD PHOTOGRAPHY DAY' Arzoo, a student of MA 3rd semester bagged first prize

The department of Journalism and Mass Communication organised a guest lecture in an observance of "World Photography Day" on (DATE) Senior Photo Journalist Karamveer Sandhu was the resource person on the occasion. Dr. Ranbir Singh, Head of Department JMC extended a floral welcome to the guest resource person. Photo Journalist Sandhu conversed about the basics of photography and emphasized on calmness and active mindedness as key to a perfect photograph. He further explained the

concepts of lighting and the challenges of the field of photography. He gave certain examples by illustrating his clicked photographs with captions and sharing his personal experiences in the field. He answered the queries raised by the students. On this occasion a competition of photography was also adjudged by Photo journalist Sandhu wherein students had clicked still photographs on the theme " Campus Life". Arzoo, a student of MA 3rd semester bagged first prize followed by Nakesh of MA 3rd semester who stood second

and Ramanjot of BA 1st year won the third prize. The students participated in this competition with full zeal and enthusiasm. At the end of the programme a formal vote of thanks was given to the guest by Dr. Ekta Mahajan, Assistant Professor of the department. She lauded the speaker for sharing his valuable experiences with the students and enriching their knowledge to become successful budding journalists in future.



## Teacher's Day Celebrated with Enthusiasm

## University Campus students participated in various cultural activities

The students of the University Campus organized various cultural activities on the occasion of Teachers Day on 5th Sept 2019. . VC Prof. (Dr.) Sharma was the chief guest of event. In his inaugural address, he said that in this era of smart phones and rapid innovations, where most of the tasks involve a part of technology, one cannot ignore the fact that Technology is just a tool; Teachers are the real mentors of every era.. He said that nobody can ignore that all the technology developers are also developed or sharpened by teachers.

The event started with Shabad Gyan followed by prayer "Guru Brahma....". After that a poem, Western dance, Punjabi folk dance, group song & Giddha was performed by the students. A team of local FM radio

station mesmerized the audience with their performances. Fun games, activities & titles were also given to the various Heads and teachers of academic departments.

Campus Director Dr. Yadwinder Singh Brar, Joint Registrar Dr. RPS Bedi lead the core organizing team. All speakers congratulated campus students for organizing Teacher's Day in wonderful manner.

On this occasion, Deputy Librarian Madhu Midda, Assistant Director Youth Services Sameer Sharma, Dr. Sarabjit Singh Maan, Cultural Coordinator, Main Campus. University Officers & all faculty members were present.



## IKGPTU ranked 104th position in NIRF 2020 Engineering Institutes Category

I.K.Gujral Punjab Technical University ranked 104th position by National Institutional Ranking Framework (NIRF 2020), Ministry of Human Resource Development, Government of India. University participated in Engineering Institutes of India Category. University got this position by sharing its accurate data towards Sanctioned



towards more achievements. Intake, Student Strength, Offered Programs, Placement & Higher Studies records etc. Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor IKGPTU congratulates all stakeholders of the University on this achievement and motivates University team

## 5th Mega Job Fair

Cabinet Minister Charanjit Singh Channi assured to offer 2 lakh+ Jobs & Self Employment Loans to One lakh youth during 5th Job Fair Sessions



The 5th State Level Mega Job Fair was organized in the main campus. On this occasion Technical Education & Industrial Training Minister, Govt. of Punjab S. Charanjit Singh Channi. Cabinet Minister Channi was the Chief Guest. He inaugurated this Mega Job Fair. Congress MLA from Sultanpur Lodhi S. Navtej Singh Cheema also joined inaugural session as special guest. Prof. (Dr.) Ajay Kumar Sharma Vice Chancellor IKGPTU chaired the inaugural session. In his inaugural speech, Cabinet Minister Channi said that the Punjab Government is in process to fill more than one lakh Govt. Vacancies in its various departments. Govt. is doing their best efforts to recruit its youth in Private as well as Government sector. He informed that this job fair is being organized at 70+ locations of the state in which 2000+ companies have consent to participate... Mr. Channi said that Punjab Government has organized 4 State Level Mega Job fairs and one International Job Fair. He said that during the present regime since 2017 till date, more than 8 lac beneficiaries have been facilitated with employment/self employment opportunities in private as well as government sector. He further said that the Ghar Ghar Yojna is personally being monitored by Chief Minister Captain Amarinder Singh and the Chief Minister himself has taken personal initiative to setup District Bureau of Employment and Enterprises,

which have been established at district Headquarters in all the 22 districts and are fully functional since November 2018.

During this drive, a high-end Job Fair was also organized at ISB Mohali on 18th September in which 25 Multi-national Companies offered packages from Rs. 03 to 09 lakh against 800 vacancies

On this Occasion, Vice Chancellor IKGPTU Prof. (Dr.) Ajay Kumar Sharma said that a series of Job fair is very much helpful to fulfill dream of Punjabi youth for Jobs and University is always in support to State Govt.'s initiatives. Prof. Sharma said that it is a proud movement for us that Government & specially Chief Minister Punjab personally taking interest to provide maximum opportunities to Punjabi youth. He briefed that Today at IKGPTU campus 30+ companies are available to offer 2300 jobs and more than 1500 applicants are registered as applicant.

During the event MLA Sultanpur Lodhi Navtej Cheema also addressed the students about the Govt.'s vision in context of balanced jobs to Punjabi Youth. Registrar IKGPTU Dr. S.S. Walia delivered vote of thanks in the end. From Administration side ADC Kapurthala Avtar Singh Bhullar, SDM Varinderpal Bjawa and District Employment Officer Neelam Mahe & Deputy Director Employment Jatinder Sareen were also present and joined inaugural session.



## District Kapurthala Traffic Police conducted Traffic Rules Observance Awareness Seminar at Campus

Department of Management organized the event

The Management Department of University organized a seminar on Traffic rules in collaboration with District Kapurthala Traffic Police. The theme of the seminar was "Follow Traffic rules for safety on road". Deputy Superintendent of Police (DSP) Kapurthala Sandeep Singh Mand was Chief Guest on this occasion. He said that it is not only our duty to follow traffic rules, but it is also our moral responsibility to save our own and others' precious lives by obeying traffic rules. Participation in the rules awareness campaign is the moral responsibility of all too. He also shared facts about their responsibility on road and he makes session interactive by giving them various practical quotes.

On this occasion, students, faculty, staff and other employees were asked to follow traffic rules. To make audience aware of the new law of Traffic rules was also part of this event.



Meanwhile, the team members of the session also shared information about the importance of documents like driving license, vehicle registration etc. ASI Gurbachan Singh, Balwinder Singh of Traffic Police Kapurthala also explained the laws related to violation of the traffic rules. The event was also a part of University's social

responsibility. The seminar was attended by Prof. (Dr.) Yadwinder Singh Brar, Head University Main Campus, Program Coordinator Dr. Rajpreet Kaur, Deputy Librarian Madhu Midda, Assistant Registrar Sandeep Mehmi, Assistant Professor Supriya Bahl, Dr. Sanjeev Bansal and others.

## Recitation of Sri Sukhmani Sahib Path in Girls Hostel

A message of faith, work for society was shared with students

Sri Sukhmani Sahib Path was recited at the girls hostel. The purpose of this Path was to share a message of socialism, faith and work for society with students. Another important purpose was to share the information about the 550th Birthday Celebrations of World Guru Sri Guru Nanak Dev ji.

Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor

said that it was an opportunity for university staff, faculty, students & everyone to sit together during the path & naam simran. He encouraged all to do social welfare work

Campus Director Prof. (Dr.) Yadwinder Singh Brar congratulated the hostel warden and all the hostel staff, students for this initiative. During the recitation, students from different states staying

in hostels praised Guru Ji's name by joining "SarvSanjhiBani" and also learned about Sri Guru Nanak Dev Ji's 550th Birth Anniversary. Joint Registrar Dr. RPS Bedi, various Department Heads, the faculty members and staff attended path ceremony. Dr. Satbir Singh (Chief Warden), Dr. Megha Goyal warden girls hostel, thanked all for their support.

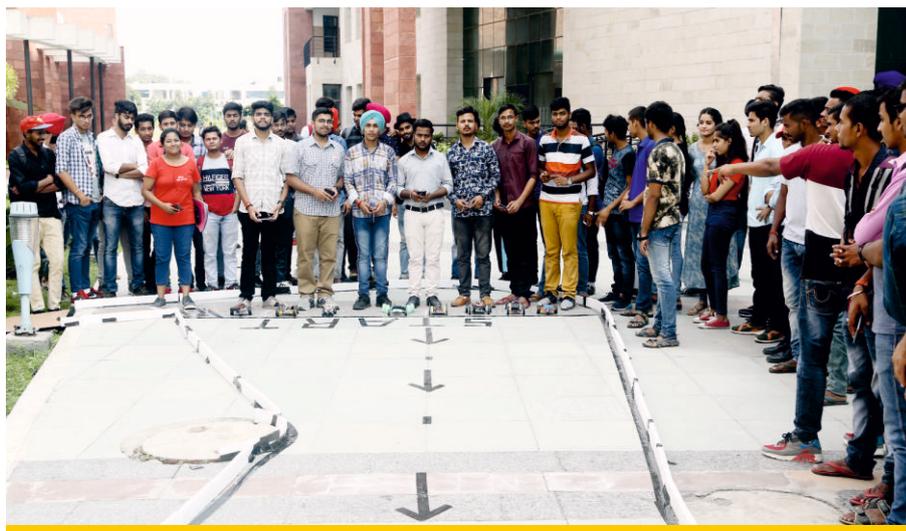


## Engineering Day Celebrated

A week long activities ended at IKGPTU as tribute to Bharat Ratna Visvesvaraya Ji

Engineering Day was celebrated with full zeal and enthusiasm at the campus with week long activities. A total number of 12 events were organized on 19th and 20th Sept., 2019. The celebration marked various technical events viz: web designing, PLC circuit designing, CAD based designing, DIY/Structural Model making, Exhibition of hardware projects, Car Racing, Quiz, Ad-Mad show, Presentations with Power Point. The aim was to pay tribute to the greatest Indian Engineer Bharat Ratna Mokshagundam Visvesvaraya and enforce the concept that engineering is practicing the art of organized force of technological change. The overwhelming participation in each event, 303 in total, exemplified the constructive and avant-garde youth power, structuring under the guidance of Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor, IKGPTU. On this occasion the message of Prof. (Dr.) Ajay Kumar Sharma in absentia was conveyed to the budding engineers. Through his message he motivated the students to celebrate everyday as Engineering Day by work on innovation.

The function ended with thumping valedictory where prizes for all events were given by Prof. Dr. Y. S. Brar, Guest of Honor of the function. Dr. Brar emphasized the need of such events for engineering campuses, where focus is on the all



dimensional development of the tech-honchos of tomorrow. He congratulated the organizing team members Dr. Manoj Mittal, Dr. Anshu, Dr. Deepika, Dr. Rakesh Goyal and Dr. Amoljit Singh Gill.

Meanwhile, the team members of the session were also shared information about the importance of documents like driving license, vehicle registration etc. ASI Gurbachan Singh, Balwinder Singh of Traffic Police Kapurthala also explained the laws related to violation of the traffic rules. The event was also a part of University's social responsibility. The seminar

was attended by Prof. (Dr.) Yadwinder Singh Brar, Director University Main Campus, Program Coordinator Dr. Rajpreet Kaur, Deputy Librarian Madhu Midda, Assistant Registrar Sandeep Mehmi, Assistant Professor Supriya Bahl, Dr. Sanjeev Bansal and others.



## Seminar on 'How to Stay Healthy and Fit' Organized

Students were given tips on healthy lifestyle

Department of Journalism and Mass Communication organized a seminar on "How to stay healthy and fit". A renowned counsellor Ms Priyanka from Healthviser team, Jalandhar along with her team members Jaspreet, Manjot and Dr. Gurpreet conducted this seminar.

Dr. Ranbir Singh, Head of the department extended a floral welcome to the resource persons. Ms. Priyanka in her interaction stated that health doesn't only mean to be physically fit but one should be both physically and mentally fit to stay healthy. She emphasized adapting a healthy lifestyle. She motivated the students to follow the regime of exercise and meditation on daily basis for a balanced and happy life. Further, the team of the healthvisers did one to one counselling session with the students, in which many queries of the students were addressed.

In the end, HOD Dr. Ranbir Singh delivered vote

of thanks to all the team members. He appreciated the speaker for imparting valuable knowledge on various diseases and how to cope up with those diseases by changing our diet. He said whatever profession we choose, it is very

important to be fit and healthy.

On this occasion Dr. Ekta Mahajan, Assistant Professor, Dr. Balbir Kumar & other faculty members were present.



## Seminar on Drug De Addiction Held

Awareness can help tackle menace: Expert

A seminar on Drug De Addiction was organized by the Mangement Department with the aim of raising awareness against Drug addiction. On this occasion, Dr. Jaspreet Singh, Medical Officer of Patti District Tarn Taran was the main speaker. Mr Danish, a team counsellor also gave his views regarding Drug De Addiction.

The keynote speaker, Dr. Jaspreet Singh, told how even a drug made in jokes or ignorance can destroy a human life. He also told about the poison being spread by dissolving intoxicating in blood. He also talked about the decline in daily lifestyle due to the presence of drugs in the blood.

Dr. Jaspreet Singh encouraged youngsters to work together against social evils. Awareness tips were given to younger generations by his colleague Danish. He also gave information about drug treatment centers in Punjab.

University's Vice Chancellor Prof. (Dr.) Ajay Kumar Sharma inspired the students to stay away from drugs. Prof. (Dr.) Yadwinder Singh Brar, Head Academic Campus also addressed the students. Program Coordinator Dr. Rajpreet Kaur thanked all the guests. On this occasion, Dr. Harmeen Kaur Soch, Head of Management Department, Faculty Dr. Kapil Gupta, Dr. Pooja Mehta, Dr. Rupali Batra, Dr. Sanjeev Bansal, Dr. Mandeep Kaur, Dr. Medha Goyal and Mandeep Kaur were also present.



## Inter zonal Youth Fest 2019 Innaugurated

First day, students of 36 Colleges competed for 15 items

Inter Zonal youth festival 2019 was organized with full zeal and enthusiasm in Sri Guru Nanak Dev auditorium at IKGPTU main campus. The Vice Chancellor I.K. Gujral Punjab Technical University Prof. Dr. Ajay Sharma was the chief guest on the innauguaral day. In his address he said that "Youth Festivals always give message to move ahead towards victory with energy, enthusiasm and spirit. Their continuation is must. It is much required for the students of technical education specially. The educational institutes must continue these fests". He gave detailed information of the work to be done by the university in future for the welfare of the students.

On this occasion, former Director Youth Affairs Guru Nanak Dev University Dr. Baljeet Singh Sekhon was special guest. During the lamp lighting ceremony, Vice Chancellor Dr. Sharma, Dr. Sekhon, Dean Dr. A.P. Singh, Dean Dr. Balkar Singh, Registrar Dr. S.S. Walia, Joint Registrar Dr. R.P. S. Bedi were also present. The function started with recital of Shabad "Satguru Nanak Pargateya" by the students. University dedicated this youth fest in honour & respect to 550th birth anniversary of world Guru Sri Guru Nanak Dev Ji. First day, students of 36 Colleges competed for 15 items. The judges of Bhangra competition were Punjab Police DSP. Daljeet Singh, World renowned Folk Dance Artist Gurvinder Singh was

2nd judge and Retd. Principal Sukhwinder Singh was on chair as 3rd judge of the event.

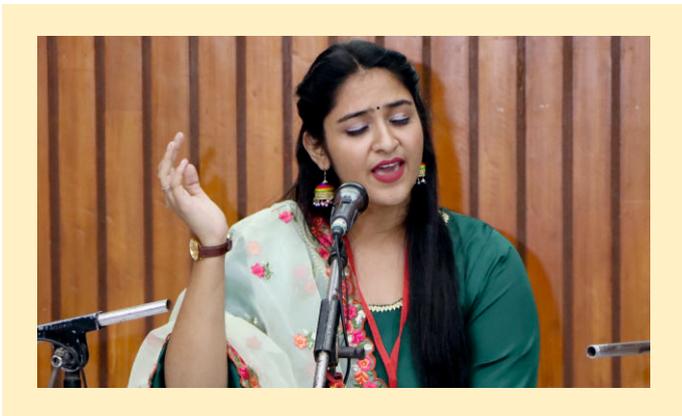
In Punjabi Folk Dance Bhangra, the first position was won by GNDEC, Ludhiana, Daviet Jalandhar got second position And SVIET, Banur stood 3rd . DAVIET Jalandhar got first position in MIME, GNIMT, Ludhiana got 2nd position and AS group of Institutions , Khanna, Ludhiana stood 3rd in the category.

Poem writing competiion was won by Indo Global College of Engineering, Abhipur. In this competition, CGC COE, Landran and SVFTM, Banur stood 2nd& 3rd respectively. Pyramid College of Business Technology, Phagwara got first position in Short story, CEC Landran got 2nd position and GNIMT, Ludhiana stood 3rd in the category. Essay writing competiion was won by SBSSTC, Ferozepur. In this competition, IKGPTU Main Campus, Kapurthala and BBSBEC, Fatehgarh Sahib stood 2nd& 3rd respectively. The final round of Quiz was won by GNDEC, Ludhiana. BCET, Gurdaspur & IKGPTU, Main Campus, Kapurthala stood 2nd& 3rd respectively. DAVIET, Jalmdhar got 1st position in Classical Solo (Vocal). SSIET, Jalandhar stood 2nd and GNDEC Ludhiana got 3rd position. Classical Instrumental Solo (P) was won by GNDEC, Ludhiana.. In this competition, DAVIET, Jalandhar and Pyramid College of Business Technology, Phagwara stood 2nd & 3rd

respectively. GNDEC, Ludhiana got first position in Classical Instrumental Solo (NP), DAVIET, Jalandhar got 2nd position and SSIET Jalandhar stood 3rd in the category.

Light Vocal Indian Competition was won by DAVIET, Jalandhar. In this competition, MIMIT, Malout and GGNIMT Ludhiana stood 2nd& 3rd respectively.

DAVIET, Jalmdhar got 1st position in On The Spot Painting. BBSBEC, Fatehgarh Sahib stood 2nd and CBSA, Landran got 3rd position. On the Spot Photography was won by DAVIET, Jalandhar. Pyramid College of Business Technology, Phagwara stood 2nd and BKCMT, Bhutta, Ludhiana got 3rd position. DAVIET, Jalmdhar got 1st position in Cartooning. SBSSTC, Ferozepur stood 2nd and GHG Khalsa College of Pharmacy Gurusar Sadhar, Ludhiana got 3rd position. Collage Making was won by A S group of Institutions, Khanna, Ludhiana. Pyramid College of Business Technology, Phagwara stood 2nd and LKCE, Jalandhar got 3rd position. The stage was conducted by students Upasna Seth, Himanshu Bhaskar, Simranjeet Kaur and Harleen.



## Inter Zonal Youth Festival 2019 concluded

DAVIET Jalandhar won Overall trophy, Runners-up trophy goes to GNDEC Ludhiana

The three day long Inter Zonal Youth festival concluded in the Sri Guru Nanak Dev Ji Auditorium of University. DAV Institute of Engineering and Technology (DAVIET) Jalandhar won the Overall Trophy of IKGPTU Inter Zonal Youth Festival 2019, while Guru Nanak Dev Engineering College Ludhiana (GNDEC) won runners-up position

The last day's Chief Guest was Inspector General of Police (IGP) Jalandhar range Sh. Naunihal Singh, IPS, while the Vice Chancellor of the University Prof. (Dr.) Ajay Kumar Sharma was a special guest. Dr. R.P.S Bedi, the overall in-charge of this youth fest & joint registrar of IKGPTU, welcomed Chief Guest and Vice Chancellor. In his welcome address, Dr.Bedi expressed special gratitude to the Chief Guest IGP Naunihal Singh & VC Prof. Dr. Sharma, for raising the morale of the participants and students with their esteemed presence in the auditorium till the end of event.

IGP Sh. Naunihal Singh addressed the students and said when he was a student, he used to enjoy the show with a lot of enthusiasm. He invited students to clap a lot and enjoy the youth festival enthusiastically. The Chief Guest IPS Singh made this event more memorable with his interaction with students. He appreciated the



efforts of University & specially congratulated Vice Chancellor Prof. (Dr.) Ajay Kumar Sharma and the entire team for this successful event. He said that such programs are very much important for technical education students.

Students showcased their talent and as per the results , In Punjabi Folk Dance Giddha, GGI, Khanna won the first position, GNDEC, Ludhiana stood second And third position was won by GNIMT, Ludhiana.

In International Group Dance, BCER, Bhutta, Ludhiana outshone.

In Western Vocal Solo, DAVIET, Jalandhar stood first, MIMIT, MALout stood second and GNIMT, Ludhiana stood third.

In Western Group Song, DAVIET, Jalandhar stood first, GNIMT, Ludhiana was second and MIMIT,

Malout stood third in the competition.

At the end, Sh. Baljit Singh Sekhon, former Youth Services Director of Guru Nanak Dev University Amritsar, who was the observer of this inter zonal youth fest, was honored. Awards were also given to winning teams, participants & students. University Registrar Dr. Sukhbir Singh Walia, Campus Director Dr. Yadvinder Singh Brar were specially present during the ceremony.

For the overall success of the Youth Festival, Assistant Registrar Paramjit Gill, Assistant Director (Cultural-Youth Affairs) Sameer Sharma, Assistant Professor Punjabi Dr. Sarabjit Singh Mann did remarkable job. Stage was conducted by the students of main campus Himanshu, Simranjeet and Harleen.



## First One Week FDP Organized

Department of Electronics & Communication Engineering takes initiative to start first FDP



The First One Week FDP on “Modern Tools and Techniques for Teachers and Researchers” was organized by Electronics & Communication Engineering department from. On this occasion, Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K. Gujral Punjab Technical University was the chief guest. During the hour of inauguration, he addressed the faculty members of various educational institutions of Punjab. He said that such programs are the need of hour in order to strengthen the base of all academic institutions, It is a straight forward fact that if your faculty is rich with knowledge, your academia will be more empowered. We are privileged that we are doing our best on the part of faculty development with

the support of AICTE (All India Council for Technical Education).

Recently IKGPTU has signed MOU with AICTE to conduct ten collaborative Faculty Development Programmes in which faculty members of various institutes of Punjab and nearby states will be trained. Four FDPs will be conducted at University Main Campus by various departments.

Dr. Satvir Singh FDP Coordinator shared the objectives of FDPs that included creating of E-contents (especially, Video Lectures) for teaching, Familiarization with MOOCs and Moodle for effective classroom teaching, writing good quality research papers and these are on top priority

during FDPs. Total fifty faculty members and research scholars from twenty-three different institutes participated in this FDP.

He told that a unique facility was created by Electronics & Communication Engineering department where faculty could create Video Lectures for its students.

Dr. Rohit Mehra, Dr. Arun Khosla and Dr. Rakesh Sharma, three experts from NIT Jalandhar, shared their knowledge with participants and encouraged them to evolve quality research. Dr. Amit Kamra, an expert from GNDEC Ludhiana, demonstrated how to use Moodle platforms for effective classroom teaching.

Dr. Neel Kanth Grover in his talk encouraged the participants to do self-learning through NPTEL MOOCs platform. Dr. Satvir Singh also contributed by giving hands on experience on creating Video Lectures and writing quality documents using LaTeX software.

Three more such AICTE-IKGPTU sponsored FDPs will be conducted by Electrical, Mechanical and Civil Engineering departments of the university in the coming months.

## Homage Paid to Former PM Inder Kumar Gujral on his 07th Death Anniversary

Public Relations Office organized programme “Tribute to Tender heart”, briefed note was shared about former PM's attachment with media & Jalandhar City

“Tribute to Tender heart” programme was organized by University's Public Relations Office to pay homage to former PM Inder Kumar Gujral on his 07th death anniversary. On this occasion Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K. Gujral Punjab Technical University while addressing University staff said that Former Prime Minister Late Sh. Inder Kumar Gujral Ji was one of the respected personalities who were devoted to educated nation for his whole life. Today on his 07th death anniversary, we are remembering late Sh. Inder Kumar Gujral Ji's contribution for nation. We have to promise today towards work for fulfilling our dreams with our day to day contributions.

Dr. Sukhbir Singh Walla, registrar IKGPTU also shared his views about the contributions of Late Sh. I.K.Gujral Ji. He said that it is an honor for the University that in the year 2015, Government of Punjab renamed Punjab Technical University to I.K. Gujral Punjab Technical University in the honor of former PM Late Sh. Gujral Sahib.

On this occasion, Rajneesh Kumar Sharma Public Relations Officer of University shared a note on Gujral Sahib's relations with Jalandhar City & Media. He shared the fact during the Emergency of June 1975, that Sh. Gujral Ji was Minister of Information and Broadcasting, where he was incharge of the media during a time of censorship in India. He also shared about his work as

incharge Doordarshan.

In this tribute meeting, Dean RIC Dr. A.P. Singh, Deputy Registrar Er. Sunil Kumar, Faculty member Er Reetipal Singh, Gagandeep Kaur, Dr Kapil Gupta, Assistant Registrar Sandeep Mehmi, Devinder Kumar & other were also present.



## 100th birthday of former Prime Minister Late. Sh. Inder Kumar Gujral celebrated

To commemorate the 100th (centenary) birthday of 12th Prime Minister of India late Sh. Inder Kumar Gujral., a function was organized in which senior journalist Satnam Singh Manak (Assistant Editor Ajit Group of Publications, who worked closely with former Prime Minister of India Late Sh. Inder Kumar Gujral) addressed the audience as a main speaker. Sr. Journalist Manak said that Gujral Sahab was one of the intellectual prime ministers of this country. He told that Gujral Ji was in favour of human rights & organization of journalists. He had an influence not only in Indian politicians but also in the whole world. Politicians from the southern countries were always eager to meet him and to hear Gujral Sahib. He was a supporter of a series of historic rich relationship era in which neighbouring countries or riyasats were asked to live in a favourable and better relationship with their neighbours, as this policy gave them more progress. If we have good relations with neighbouring countries, we can progress further by using their resources and sharing our resources with them.

Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor IKGPTU said that it is a matter of honor for University that its name is on the name of

Gujral Sahib. He said that Sh. Gujral ji was a true leader, a loyal and patriotic person, he saluted him on this special day.

On this occasion, Surinder Saini, who runs an organization "Child Helpline in Jalandhar, and was close to Gujral Sahib, told about the former Prime Minister's association with Jalandhar.

The life introduction of former Prime Minister Gujral Sahib was read by Dr. Balakar Singh, Dean academic IKGPTU. While the vote of thanks was delivered by Registrar Dr. Sukhbir Singh Wallia. Public Relations Officer Rajneesh Kumar Sharma conducted the stage. University's

Joint Registrar Dr. RPS Bedi, Director Distance Education and former Registrar Dr. Amanpreet Singh, Er. H.P. Singh, Inch. P&EP Sunil Kumar and others were also present on this occasion.



## FDP on "Internet of things" (IOT) and Real Life Applications Organized

58 faculty members & research scholars from eleven different institutes participated in this FDP

One week national level Faculty Development Programme on "Internet of things (IOT) and Real Life Applications" was organized by Electronics & Communication Engineering Department from December 02 to December 06, 2019. This FDP was sponsored by IKGPTU and AICTE (All India Council for Technical Education).

During the valedictory session of this one week program, FDP Coordinator Dr. Rakesh Goyal read the message of Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K.Gujral Punjab Technical University. In his note, he said that Faculty Development Programmes (FDPs) on every subject are as much important as education in modern era. An expert faculty can develop an expert society. Technology at world level is changing on hourly basis and we have to learn the use of technology and to deliver the best to our students.

Dr. Rakesh Goyal, FDP Coordinator received financial assistance from AICTE and IKGPTU to conduct this FDP. Total fifty eight faculty members and research scholars from eleven different institutes participated in this FDP. He said that the program got applauded by one and all. It was very helpful in developing basic and practical knowledge of components of Internet of Things through making real-life IOT based projects. It targeted to give broad exposure to the research and industrial applicability of all engineering models including Electronics,

Computer Science, Electrical, Mechanical and other recent ideas for the faculty members and research scholars to discuss the state of the art applications, perspective of future developments relevant to their field.

Various Experts from Academics and Industries shared their knowledge with participants and encouraged them to evolve IOT Projects and their implementation.



## Student Selected for Study at Canadian University

The opportunity found under the Student Exchange Program Agreement between both Universities

University's student Rajat Nehra, was selected to study further at Canadian University. This selection was a part of the agreement between the Canadian University and IKGPTU for the Student Exchange program. Rajat Nehra, a student of B.B.A 3rd semester at University's affiliated college, CGC Technical Campus, Jhanjheri (Mohali) had been selected as Visiting Student for Winter Session 2020 at Concordia University of Edmonton (Canada).

Vice-Chancellor IKGPTU Prof. (Dr.) Ajay Kumar Sharma congratulated Rajat Nehra & shared that IKGPTU signed 18 MoUs with various foreign Universities/Institutions for faculty exchange and students Exchange programmes. He told that the



MoUs are with institutions of Canada, England, USA, Australia, Korea etc. He said that through the university's agreement with international universities, the students and faculty members of the university will have the opportunity to enhance academic quality. University's Department of International Affairs and P&EP also encouraged the student on this occasion.

## AICTE sponsored one-week FDP on Recent Advancements in Power and Energy Systems organized

A one-week faculty development programme that judiciously integrated audio-video presentations in academic classes along with need-based laboratory sessions, case studies concluded at Department of Electrical Engineering at IKGPTU main campus. On this occasion Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K. Gujral Punjab Technical University said that Involvement of Industry Experts is must for the Development of faculty. It is an important exercise to know the ground realities & requirements of the industry relevant. He said that only an experienced faculty, who is aware about the reality of relevant subject industry, can develop a campus class in a best way.

Besides, the University faculty experts had been invited from prestigious National Institutes along with Industry to hold sessions on recent advancements in power and energy systems. Experts held sessions on modern heuristic techniques for optimization, developments alongside challenges of renewable energies, recent advancements in renewable energy, grid integration, smart grids, green-micro grids, energy efficiency and power equipment performance. The interactions led to identification of thrust areas for industry-based research through real-time simulations in the session held. There were faculty members, research scholars and utility employees among the 50 participants



from Jammu and Kashmir, Kerala, Haryana, Rajasthan, and Delhi NCR. The inaugural session was conducted by renowned academician and vivid researcher Dr. J S Dhillon from SLIET Longowal. The host University was the cosponsor for the event.

During the valedictory session the Dr Y S Brar, Director of the Main Campus discussed the scope

of future work with Quarbz Info Systems, the industry contributors for this event.

Dr. Gagandeep Kaur, Head of the department earlier informed all about the research facilities available in the department. The event concluded by a vote of thanks by Dr Naveen Sharma, Convener of the event.

## One Week Short Term Training Programme held

Jointly Organized by IKGPTU & NITTR

One week Short term training programme on subject "Fostering Creativity & Innovation in Entrepreneurship", was jointly organized by NITTR (National Institute of Technical Teachers Training & Research) Chandigarh & IKGPTU from On this occasion, the message of Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K. Gujral Punjab Technical University was read. In his message he said that

Fostering Creativity & Innovation is need of the hour. It is important to establish an entrepreneurial atmosphere in educational institutions. Our students should be job providers, not job seekers and such programmes can play a vital role in developing entrepreneurial culture in Universities and colleges.



Er. Navdeepak Sandhu, Deputy Director Corporate Relations was Programme Coordinator. He shared that 33 faculty members and PG students from IKGPTU campuses & affiliated colleges participated in this Short Term

Training Programme. Er. Amardev Singh, Assistant Professor, NITTR Chandigarh, Er. Gazal Sharma, M S Bedi, Dr. Jujhar Singh & Tarun Kanodia also joined this programme as organising committee members.

## UGC Recognized Courses of IKGPTU Distance Education

Admission allowed in January 2020 academic session

An established name in Quality Distance Education, I.K. Gujral Punjab Technical University was recognized by the University Grants Commission (UGC) for admission in Distance Education for January 2020 intake. The university received this recognition for admission to Bachelor Degree level and Master's degree course. The Courses that were given recognition included Bachelor of Commerce, Bachelor of Arts (Journalism and Mass Communication), Bachelor

of Business Administration, Bachelor of Computer Applications and Master of Commerce in Master's Degree course category.

University Vice-Chancellor Prof. (Dr.) Ajay Kumar Sharma congratulated Dr. Amanpreet Singh, Director (Administration) ODL, Prof. (Dr.) Y.S. Brar Director ODL and his team on this achievement. VC Prof. Sharma ensured that students will be provided best of the learning experience through e-governance.



## Member of the Canadian Parliament Visited IKGPTU

Sr. Sukhminder "Sukh" Singh Dhaliwa, Member of the Canadian Parliament from Surrey Newton visited I.K. Gujral Punjab Technical University on Jan 7, 2020. Hon'ble Vice Chancellor Prof. (Dr.) Ajay Kumar Sharma welcomed him. He shared his views about the Higher Education system of Canadian Government and also talked about Canadian opportunities for Punjabi Youth. Further he shared his memories as a student of this University. He offered his full support to IKGPTU at every need of time. It is worth mentioning that Sukh Dhaliwal is Alumni of IKGPTU. He did his Graduation from IKGPTU's affiliated Institution Guru Nanak Dev Engineering College Ludhiana.



## AICTE Sponsored 7 Days Residential FDP cum SIP Conducted

85 faculties from different affiliated colleges participated

7 Days Residential Faculty Development Program (FDP) cum Student Induction Program (SIP) on Universal Human Values (UHV) was conducted at Main Campus from This activity was sponsored by All India Council for Technical Education (AICTE).

While inaugurating the program, Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K. Gujral Punjab Technical University stressed upon the Importance of Courses in Universal Human Values and said that it is the duty of each institution to curb the anti nation, anti social elements, even thoughts too. He shared his vision and efforts being done by IKGPTU in the field of Value Education.

He shared the facts that IKGPTU is taking care of around 08 Residential FDPs of 7 Days for the state of Punjab, Chandigarh, Himachal Pradesh, J&K, and Haryana during this winter break. He told that one year PG Diploma Course on Universal Human Values is going to be started soon .

Total 85 faculties from affiliated colleges of IKG PTU and various Universities of Punjab, Himachal Pradesh, J&K and Orissa attended this second FDP of winter break. In the first FDP 54 teachers participated.

It is worth mentioning that since July 2018, AICTE has introduced mandatory three-weeks Student Induction Program (SIP) based on UHV for the first-year students and the classes begin after this induction program. As the Student Induction Program is made mandatory for every



student, it is of utmost importance that the faculty members/teachers are equipped and refreshed to conduct the induction program for the students. To cater this, all Faculties must undergo such 7 days Residential FDP based on UHV. Only such faculties will be eligible to conduct SIP at their colleges.

Dr. Sukhbir Singh Ahluwalia, Officiating Registrar also shared his views over UHV & residential FDPs cum SIPs. On this occasion Dr. Satvir Singh, HoD ECE, IKG PTU, Er. Mohit Jain and Er. Vinay Kehar also shared their experiences regarding current events. Sh. Jitender Narula was the keynote speaker of this workshop. Er. Mohit Jain, Local Program Coordinator of this FDP gave vote of thanks to all the guests, participants and media officials.



## University Celebrated its 24th Foundation Day

ODL Admission Portal Inaugurated & University Calendar 2020 released during 52nd Academic Council Meeting

On the 24th Foundation Day of University, 52nd Academic Council of the University was chaired by Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K. Gujral Punjab Technical University. On this occasion, he addressed to members of the Council and motivated them to start year 2020 with Academic Brilliance. He also inaugurated admission portal of Open & Distance Learning Program (ODL) & also released University's Wall and Table Calendars 2020.

VC Prof. Sharma said that the magnificent history of IKGPTU in Distance Learning Education has been a pioneer in the field of flexible learning of multi-entry, multi-exit by fulfilling the dreams of millions to get quality education. He invited student & academic council to support ODL. He said that with the wide choice of courses like BA Journalism, BCA, DCA, BBA, B.Com, and M.Com, the students can enroll in different fields according to their area of interest. Dr.



Amanpreet Singh, Director ODL (Administration) briefed about the journey of ODL and this year vision. During meeting, the agendas for discussion & recommendations were implementation of multiplier factor 10 instead of 9.5 for conversion from CGPA to percentage for all the students of IKGPTU, Starting of semester training for B.Tech. programme, creation of new departments from academic session 2020

and review of nomenclature of all courses. Dr. Balkar Singh, Dean Academics presented all agendas in front of Academic Council. Officiating registrar Dr. S.S. Walia delivered vote of thanks. Apart from meeting, University Staff organized Path Sri Sukhmani Sahib & "Guru Ka Langar" was also arranged.

## National Youth Day Celebrated

Blood Donation Camp & seminar were organized at Main Campus

Blood Donation Camp & a Seminar in context of National Youth Day was organized by the NSS Department. Appreciating the efforts of NSS Department, Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K Gujral Punjab Technical University encouraged youngsters to work for the betterment of the society. He emphasized that NSS provides a big platform, where students can grow & increase their knowledge by working on the problems of society. He told about the adoption of two villages by the University under "Unnat Bharat Abhiyaan".

On this occasion, NSS department also conducted a seminar with theme "Youth for Nation Building" in which Dr. Anish Dua, Professor Guru Nanak Dev University was the key note speaker. He interacted with students and addressed their queries for future India. He shared about teachings and life victory of Swami Vivekananda with students. He appealed the students to follow the teachings of Swami Vivekananda. He said that Swami Vivekanand was a great influencer and he influenced the life of many great people like Mahatma Gandhi, Rabindra Nath Tagore Ji, Subash Chandra Bose ji, Bal Ganga dhar Tilak & Many more.

A Blood donation camp was organized after seminar in which students; non teaching and teaching staff of the university participated and donated about 60 units of Blood.



## 71st Republic Day Celebrated



University celebrated 71st Republic Day with full fervour & enthusiasm on 26th January, 2020. Students performed choreography on patriotic songs. Staff member Mukhtiar Singh sung a song related to Indian Constitution. The message of this very special day was delivered by Dean R&D Dr. A.P. Singh. In his speech Dean Dr Singh shared facts of Indian Republic Day and motivated all to work in unity.

Hon'ble Vice Chancellor Prof.(Dr.) Ajay K. Sharma congratulated University staff, faculty & students through a written message. University celebrated this event in newly constructed multi facility Sri Guru Nanak Dev Ji Auditorium.

## 550th Birth Anniversary Baba Sri Guru Nanak Dev Ji Celebrated

A senior faculty member of University, Prof. (Dr.) Avtar Singh Buttar wrote a Shabad in order to celebrate 550th birth anniversary of Baba Sri Guru Nanak Dev Ji. He also recited Shabad and the whole family of University joined the celebrations. On this occasion, this Shabad titled "mera baba nanak sabna da peer e..." was released by Hon'ble Vice Chancellor Prof. (Dr.) Ajay Kumar Sharma on Oct. 30, 2019.



## First Campus Workshop on Personality Development Organized

An Initiative of Department of Journalism & Mass Communication

Department of Journalism & Mass Communication organized first one day workshop on Personality Development. The topic of the workshop was 'Personality Development and Soft Skills'. Ms. Ramanpreet Kaur, CEO, Sham sheer School of Media Arts, Soft skills and Vocational training addressed the students as key resource person. Dr. Ekta Mahajan, Assistant Professor extended her floral welcome. On this occasion Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K.Gujral Punjab Technical University (IKGPTU)

encouraged the Academic Departments to work on personality development. He said that the world of opportunity is in search of personality people, so we have to work on it to achieve more, to provide more to our students.

While addressing the students, resource person Ramanpreet Kaur focused on improving the communication skills of the students in order to prepare them for job interviews. Various parameters like basics of introduction, body language, positive attitude, interactive skills and

time management were discussed by the speaker.

She also shared tips on healthy eating and developing good habits like reading literature and upgrading knowledge of your subject.

Speaker involved the students in various activities to make the session interactive. Dr. Ranbir Singh, Head of the Department said that the objective of this workshop was to inculcate self confidence, enhance self esteem and improve overall personality of the students.



## AICTE sponsored Short Term Training Program on Library Science Conducted

A Five-Day national-level short-term training program was organized by University's Knowledge Resource Center. This program was sponsored by All India Council for Technical Education (AICTE). The theme of this program is "Recent Advancement in Library Profession and Services ". During the inaugural session, Dr. Balkar Singh, Dean Academics of the University was the Chief Guest and the keynote address of the training program was read by Dr. ARD Prasad, former Professor and Head, DRTC Bangalore. Prof.(Dr.) M.P. Satija was the Guest of Honor for the occasion . In his keynote address, Professor Prasad spoke in context of the new direction that library science got with the matching of new tools related to the subject. On the first day, Dr. Nirmal Kumar gave a lecture on Citation and Impact Writing and in the fourth session the topic was 3Ws of Books of Publication. In this five-day workshop, Dr. M.P. Satija, Dr. Sanjeev Saini,



Dr. Baljinder Kaur, Dr. Jatinder Kumar, Dr. HS Chopra joined as keynote speakers. Ms. Madhu Midda, the Deputy Librarian of the university, was the coordinator of this training program. University's Registrar Dr. Sukhbir Singh Walia was also present on the occasion.

## Infosys Ltd. selected 45 Engineering Students

Infosys selected 45 students during Joint Campus Placement drive organised at University main campus. Total 350 students from 30 affiliated colleges participated in this two days drive. Students of B.Tech, M.Tech, MCA & M. Sc. (Maths/Physics) were eligible for the participation. The students were selected on the basis of online test followed by Interview. Selected students were offered package of 3.60 LPA.

Dr. Ajay K Sharma, Vice Chancellor congratulated the selected students and wish them a great

career ahead. He encouraged the students to work hard and shared that University will organise more Placement Drives of Multinational companies in future. Er. Navdeepak Sandhu, Deputy Director (Corporate Relations & Alumni), IKG PTU, told that selected students are from 10 affiliated colleges: GNDEC Ludhiana (12), IKG PTU Jalandhar (08), BBSBEC Fatehgarh Sahib (08), DAVIET Jalandhar (06), ACET Amritsar (04), CT Institute Jalandhar (03), BCET Gurdaspur (01), SUSCET Tangori (01), CGC (01)

& PCTE Ludhiana (01).

A HR talk for the Placement Officers of affiliated colleges & pre-final year engineering students of University campus was also organised. Mr. Sarthak Sharma, Talent Acquisition Lead, Infosys, briefed about the employment opportunities in Infosys for the students going to pass out in 2021. Various queries of the TPOs & students were addressed.



## Expert Lectures on Radio & Public Relations Organized.

Journalism Students get benefit learn of practical of two core subjects



The Department of Mass Communication & Journalism organized two different expert lectures. First expert Lecture was on Radio: The Theatre of Mind and the second lecture was on Public Relations.

Famous Radio personality Nitin Gupta, Associate Vice President Programming, Radio Mirchi was the resource person for the first expert lecture and for second lecture on Public Relations, Manwinder

Singh, District Public Relations Officer (DPRO, Govt. of Punjab) Jalandhar-Kapurthala was the resource person. Dr. Ekta Mahajan and along with other teaching fraternity extended cordial welcome to the resource persons.

Nitin Gupta, in his interactive session with the students explained how radio has gained its popularity over the years in India. He inspired the students to be content creator, in fluencer and

expert in any one area to establish successfully in the field of media. He also conducted a group activity with the students, through which he taught them how to work in different segments of a radio. The budding journalists of the department actively participated in the activity and learnt a lot for life and were motivated to prepare themselves for a bright career in radio channels offer.

In 2nd lecture DPRO Manvinder Singh explained thoroughly the concept of Public Relations to undergraduate and post graduate students. He said, "Public Relation is not a new area. It is as old as civilization. A good Public Relations Officer shapes an organization's image. He builds the brand and communicates the message of an organization to the public." DPRO Manvinder Singh further said that to be a successful PRO, one has to be loyal towards his organization, develop the art of handling the crisis.

In the end, Prof. (Dr.) Ranbir Singh, Head of JMC Department IKGPTU delivered his vote of thanks to the experts.



## 23rd Inter College Athletic Meet (Men & Women) held at University Main Campus 50 teams of 29 educational institutions took part in this Athletic Meet

23rd Inter College Athletic Meet (Men & Women) was organized at University's main campus. Athletic Meet was organized for the first time at University Main Campus in a newly built playground. The meet was inaugurated by IAS Deepti Uppal, Deputy Commissioner Kapurthala as Chief Guest. She hoisted the flag and released the balloons to mark the opening of the meet. The meet was declared open by Hon'ble VC Prof (Dr.) Ajay Kumar Sharma. Ms. Charru SDM, Kapurthala also joined inaugural session. Registrar Dr. S.S Walia & Joint Registrar IKGPTU Dr. RPS Bedi welcomed Vice Chancellor Prof.

Sharma, IAS Deepti Uppal and other guests of the occasion. On this occasion, IAS Deepti Uppal said that it is the spirit of a game that gives the power to win and move forward. She encouraged all the students to participate in sports maximum.

Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor I.K.Gujral Punjab Technical University, said that professionalism comes only through sports. The efforts of the university are to get participation from every student in at least one game and earn the professionalism within the game.

Dr. Bedi said that the University is moving

forward to give every student an opportunity to develop from every side and promotion of sports is one important aspect. An impressive march past was conducted by all the teams and ceremony of lighting the Mashal (Touch) was performed. The athletes took an oath to follow the spirit of sportsmanship in sports.

A total 50 teams (both Men & Women) from 29 educational institutions including University Main Campus participated in this athletic meet that continued till 06 March. The first trophy of Athletic Meet was won by the University main Campus team for "Best Marching Contingent".

### Prof. (Dr.) Ajay Kumar Sharma, Vice Chancellor

- Sandeep Verma, Neetu Sood and Ajay K. Sharma, "Cost-Effective Cluster-based Energy Efficient Routing for Green Wireless Sensor Network", Recent Advances in Computer Science and Communications, Bentham Science Publishers, Vol. 12, No. 1, 2020.
- Gunjan, Ajay K. Sharma and Karan Verma, "NSGA-II with ENLU inspired clustering for wireless sensor networks", Wireless Networks, Online 6th March, 2020, Springer Science+Business Media, LLC, part of Springer Nature 2020. SCIE IF: 2.405
- Vibha Nehra, Ajay K. Sharma and Rajiv K. Tripathi, "I<sup>2</sup>DEEC: improved DEEC for blanket coverage in heterogeneous wireless sensor networks", Journal of Ambient Intelligence and Humanized Computing", <https://doi.org/10.1007/s12652-019-01552-3>, Online October 25, 2019, Springer-Verlag GmbH Germany, part of Springer Nature 2019. SCIE, IF: 1.910.
- Rikmantra Basu, Jaspinder Kaur and Ajay K. Sharma, "Analysis of a Direct-Bandgap GeSn-Based MQW Transistor Laser for Mid-Infrared Applications", Journal of ELECTRONIC MATERIALS, Published Online 16 July 2019.
- Sandeep Verma, Neetu Sood, Ajay K. Sharma, "Genetic Algorithm-based Optimized Cluster Head selection for single and multiple data sinks in Heterogeneous Wireless Sensor Network", Applied Soft Computing, Elsevier, Vol. 85, 2019. SCIE, IF: 4.8
- Sandeep Verma, Neetu Sood, Ajay K. Sharma, "A novelistic approach for energy efficient routing using single and multiple data sinks in heterogeneous wireless sensor network," Peer-to-Peer Networking and Applications", Springer, Science plus Business Media, LLC, part of Springer Nature June, 2019. SCIE, IF: 2.4.
- Sandeep Verma, Neetu Sood, Ajay K. Sharma, "QoS provisioning-based routing protocols using multiple data sink in Io T-based WSN," Modern Physics Letters A, vol. 34, 2019, World Scientific Publishing Company. SCIE, IF: 1.3.
- Prateek Gupta, Ajay K. Sharma, "Clustering-based Heterogeneous Optimized-HEED Protocols for WSNs" Soft computing: METHODOLOGIES AND APPLICATION, Springer-Verlag GmbH Germany, Part of Springer Nature 2019, Published online: April 24, 2019. SCI, IF: 2.37
- Preeti Verma, Ajay K. Sharma, Arti Noor, Alok Kumar Mishra and Vinay S. Pandey, "A Novel approach for noise tolerant energy efficient TSPC dynamic circuit design", Analog Integrated Circuits and Signal Processing, Published online: April 23, 2019. SCI, IF: 0.80
- Jaspinder Kaur, Rikmantra Basu and Ajay K Sharma, "Effect of separate confinement hetero-structure layer on tunnel injection transistor laser-based transmitter for high-speed optical communication networks", Optics and Laser Technology, vol. 115, pp. 268–276, 2019. SCI, IF: 2.503
- Vibha Nehra, Ajay K. Sharma and Rajiv K. Tripathi, "NMR inspired energy efficient protocol for heterogeneous wireless sensor network", Wireless Networks: The Journal of Mobile Communication, Computation and Information, February 21, 2019. SCI, IF: 1.98(online)
- Rohit Kumar, Sumit J. Darak, Manjesh K. Hanawal, Ajay K. Sharma, and Rajiv K. Tripathi, "Distributed Algorithm for Learning to Coordinate in Infrastructure-Less Network", IEEE Communication Letters, Vol. 23, No. 2, February 2019. SCI, IF: 1.988

### Dr. Monika Sachdeva

- Nitin Khanna and Monika Sachdeva, "Study of Trust Based Mechanism and its Component Model in MANET: Current Research State, Issues and Future Recommendation", Int. Journal of Communication System, Wiley, Vol. 32, Issue 12, August, 2019, pp.1-23. SCI-E, Scopus Indexed, impact factor: 1.712
- Vishal Kumar Arora, Vishal Sharma, Monika Sachdeva, "A Multiple Pheromone Ant Colony Optimization Scheme for Energy Efficient Wireless Sensor Networks", Soft Computing, Springer, 2019, SCI-E, impact factor: 2.367
- Nitin Khanna and Monika Sachdeva, "OFFM-ANFIS Analysis for Flood prediction using mobile IoT, Fog and Cloud Computing", Cluster Computing, DOI: 10.1007/s10586-019-03033-w, Springer (SCI-E, Scopus Indexed), SCI impact factor: 1.851
- Nitin Khanna and Monika Sachdeva, "BEST: Battery, Efficiency and Stability based Trust mechanism for mitigation of Blackhole Attack and its Variants in MANET", Ad-hoc Sensor and Wireless Network, Old City Publishing, SCI-E, Scopus Indexed, SCI Impact factor: 0.948
- Vishal Arora, Vishal Sharma, Monika Sachdeva, "ACO Optimized Self-Organized Tree-Based Energy Balance Algorithm for Wireless Sensor Network", Journal of Ambient Intelligence and Humanized Computing, Springer, January 2019, SCI, Impact Factor 1.42
- Vishal Arora, Vishal Sharma, Monika Sachdeva, "A Distributed, Multi-Hop, Adaptive, Tree-based Energy-Balance Routing Approach", International Journal of Communication Systems, Wiley, SCI, Impact Factor: 1.7
- Nitin Khanna and Monika Sachdeva "A comprehensive taxonomy of schemes to detect and mitigate blackhole attack and its variants in MANETs", Computer Science Review, Vol. 32, May, 2019, pp.24-44, Elsevier (SCI-E, ESCI, Scopus Indexed)
- Navjot Sidhu and Monika Sachdeva, "A Comprehensive Study of Routing Layer Intrusions in ZigBee based Wireless Sensor Networks", International Journal of Advanced Science and Technology, ISSN: 2207-6360, Vol. 29, No. 3, January 2020, pp. 514 – 524, (Scopus Indexed)
- Ketanpreet and Monika Sachdeva "Fog Computing in IOT: An Overview of New Opportunities", Proceedings of ICETIT 2019, Emerging Trends in Information Technology, Springer, (Scopus-Indexed)

### Dr. Dinesh Gupta

- Diksha, Dinesh Gupta, "Review of Decision Tree Based Classification Algorithms in Medical Data", International Journal of Computer Sciences and Engineering, 7(5), 230-234, (2019).
- Diksha, Dinesh Gupta "Decision Tree based Classification and Dimensionality Reduction of Cervical Cancer", International Journal of Innovative Technology and Exploring Engineering (IJITEE), 9(6), 1531-1535, (2020).

### Dr. Raman Kumar

- Shakti Arora, Surjeet Dalal, and Raman Kumar, "A Variant of Secret Sharing Protected with Poly-1305," in Recent Advances in Computational Intelligence, R. Kumar and U. K. Wiil, Eds., ed Cham: Springer International Publishing, 2019, pp. 107-119
- Raman Kumar and Uffe Kock Wiil, "Design and Analysis of an Enhanced Multifactor Authentication Through a Covert Approach" in Recent Advances in Computational Intelligence, R. Kumar and U. K. Wiil, Eds., ed Cham: Springer International Publishing, 2019, pp. 45-61.
- Raman Kumar and Uffe Kock Wiil, "Enhancing Gadgets for Blinds Through Scale

Invariant Feature Transform," in Recent Advances in Computational Intelligence, R. Kumar and U. K. Wiil, Eds., ed Cham: Springer International Publishing, 2019, pp. 149-159.

- Stuti Mehla, Anjali Chaudhary, and Raman Kumar, "Review on Current Trends of Deep Learning," in Recent Advances in Computational Intelligence, R. Kumar and U. K. Wiil, Eds., ed Cham: Springer International Publishing, 2019, pp. 63-70.
- Rishipal, Sweta Saraff, and Raman Kumar, "A Gamification Framework for Redesigning the Learning Environment," in Recent Advances in Computational Intelligence, R. Kumar and U. K. Wiil, Eds., ed Cham: Springer International Publishing, 2019, pp. 93-105.
- Bijeta Seth, Surjeet Dalal, and Raman Kumar, "Hybrid Homomorphic Encryption Scheme for Secure Cloud Data Storage," in Recent Advances in Computational Intelligence, R. Kumar and U. K. Wiil, Eds., ed Cham: Springer International Publishing, 2019, pp. 71-92.
- Bijeta Seth, Surjeet Dalal, and Raman Kumar, "Securing Bioinformatics Cloud for Big Data: Budding Buzzword or a Glance of the Future," in Recent Advances in Computational Intelligence, R. Kumar and U. K. Wiil, Eds., ed Cham: Springer International Publishing, 2019, pp. 121-147.

#### Dr. Anshu Bhasin

- H.Singh, A. Bhasin, Parag ravikant Kaveri, "QoS based Efficient Resource Allocation and Scheduling in Cloud Computing" , IJTHI, IGI Global Vol15, issue 4, pp13-29, Dec. 2019
  - H.Singh, A. Bhasin, Parag ravikant Kaveri , "SECURE: Efficient Resource Scheduling by Swarm in Cloud Computing", Journal of Discrete Mathematical Sciences and Cryptography, Taylor& Francis, Vol 22, no.2, pp127-137, March2019
  - M.Singh, A.Bhasin, Surrender Singh, 'Efficient Retrieval Of Html Documents Using Hybrid Meta-Heuristic Approaches In Web Document Clustering', IJEAT, vol8, issue 5C, pp 1350-1354, May 2019
  - M.Singh, A.Bhasin, Surrender Singh, "Efficient Retrieval of HTML Documents using Hybrid PSO and Hybrid ACO in Web Document Clustering", Journal of advanced Bresearch in dynamical and control systems, Vol 11, issue 2, pp 1856-1865 June 2019
- BOOK CHAPTER:** Bhasin, Sandeep Singh,A. Kalia, "Energy Conscious Packet Transmission in Wireless Networks using trust based Mechanism: A Cognitive Approach", Handbook of Wireless Sensor Networks, Springer Nature Switzerland AG, March 2020.

---

## DEPARTMENT OF ELECTRICAL ENGINEERING, MAIN CAMPUS

---

#### Prof. (Dr) Y. S. Brar

- S.K. Sehra, **Y.S. Brar**, N. Kaur and S.S. Sehra, " Software effort estimation using FAHP and weighted kernel LSSVM machine", Soft Computing, vol. 23, pp. 10881–10900, DOI-.org/10.1007/s00500-018-3639-2 2019.
- B. Koul, K., Singh and **Y.S. Brar**, "An integration of smart grids with demand side management and renewable energy: A review", International Journal of Mechanical and Production Engineering Research and Development (IJMPERD), vol. 9, no. 4, pp. 839-848, 2019, ISSN(P): 2249-6890; ISSN(E): 2249-8001.
- A. Kaur, A. **Y.S. Brar**, G. Leena, "Fault detection in power transformers using random neural networks" International Journal of Electrical and Computer Engineering (IJECE) Vol. 9, No. 1, pp. 78-84 ISSN: 2088-8708, 2019, DOI: 10.11591/ijece.v9i1.
- H.P. Singh, **Y.S. Brar** and D.P. Kothari, "Reactive power based fair calculation approach for multi-objective load dispatch problem, Archives of Electrical Engineering, vol. 68, no. 4, pp. 719–735, 2019, DOI 10.24425/ae.2019.130679.
- A. Kaur, A. Y.S. Brar, G. Leena, "Comparative Analysis of Fault Detection in Transformers using different Fuzzy Membership Functions", IOSR Journal of Engineering (IOSRJEN), Vol. 09, no. 2, PP 32-37, 2019, ISSN (e): 2250-3021, ISSN (p): 2278-8719
- H.P. Singh, **Y.S. Brar** and D.P. Kothari, "Solution of optimal power flow based on active and reactive cost using particle swarm optimization", International Journal of Electrical Engineering & Technology (IJEET), vol. 10, no. 2, pp. 98-107, 2019.

#### Dr. Gagandeep Kaur

- Guneet Singh and **Gagandeep Kaur**, "Prospects of Bioenergy Generation in Indian State Punjab- An Evaluation", Journal of Emerging Technologies and Innovative Research (IJTIR), ISSN 2349-5162, Volume 6, Issue 6, pp. 278-281, 2019.

#### Dr Deepika Bhalla

- International Journals: Vibhuti, Genius Walia, **Deepika Bhalla**, "Computation of Power Transformer Reactance using Finite Element Method", International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8 Issue-6, March 2020 (Journal in UGC Care list)

- Sunny Vaish, Deepika Bhalla, Akhil Gupta, "Critical Assessment of a PV Utility Tied System using P&O MPPT Technique under Dynamic Loaded Conditions", International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878, Volume-8, Issue-4, November 2019, pp 1380-1386. (Journal in UGC Care list)
- **International Conferences:** Vibhuti, **Deepika Bhalla**, Genius Walia, "Assessment of the use of FEM for Computation of Electromagnetic Forces, Losses and Design of Transformers", International Conference on Future of Engineering Systems and Technologies, G L Bajaj Institute of Technology and Management, Noida, India, 21-22 December, 2019.
- **National Conference:** Ravneet Kaur, Naveen Sharma, **Deepika Bhalla**, "Grid Integration of Wind Energy Conversion System with Variable Speed Analysis using Simulink Model, National Conference on Renewable Energy and Sustainable Environment", 30 th -31 st August 2019, National Institute of Technology, Kurukshetra, Haryana, India.
- Ravneet Kaur, Naveen Sharma, **Deepika Bhalla**, "Grid Integrated with Wind Turbine System on Fault Analysis Studies," 30th-31st August 2019, National Conference on Renewable Energy and Sustainable Environment", National Institute of Technology, Kurukshetra, Haryana, India.
- Karan Bali, Deepika Bhalla, Coupled Field Method for Analyzing Short Circuit Electromagnetic Forces in Power Transformers, National Conference on Renewable Energy and Sustainable Environment", 30th -31st August 2019, National Institute of Technology, Kurukshetra, Haryana, India.

#### Dr. Naveen Kumar Sharma

- Anuj Banshwar, Naveen Kumar Sharma, Yog Raj Sood, Rajnish Shrivastava, "Market-based Participation of Energy Storage Scheme to Support Renewable Energy Sources for the Procurement of Energy and Spinning Reserve," Renewable Energy, ISSN: 0960-1481, vol. 135, pp. 326-344, 2019.
- Bharat Bhushan Sharma, Anuj Banshwar, Mohit Pathak, Naveen Kumar Sharma, Aman Joshi, "Simulation based Elevator Group Control System for Multi-Storey Building", International Journal of Mathematical, Engineering and Management Sciences, ISSN: 2455-7749, vol. 4, no. 1, pp. 77-84, 2019.

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## DEPARTMENT OF HUMANITIES, LANGUAGES & CULTURAL STUDIES, MAIN CAMPUS

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---

### Dr. Sarabjit Singh

- Singh, Sarabjit. (April 2019),(Co-Author Maninder Singh).Bharat Muni: Theoretical Vision, Journal of Advances and Scholarly Researches in Allied Education,16 (5), 619-622, April 2019,ISSN2230-7540. **(UGC Approved List)**
- Singh, Sarabjit. (May 2019) (Co-Author Maninder Singh).Khawaja Gulam Farid and Philosophy of Sufiism, Journal of Advances and Scholarly Researches in Allied Education, 16(6), 865-867,ISSN2230-7540.**(UGC Approved List)**
- Singh, Sarabjit. (2019) (Co-Author Malkiat Singh). Poetry and Ideology, AjokeShilalekh, Amritsar,July –September, 42-43, ISSN 2348-2664.**(UGC Approved List)**
- Singh, Sarabjit. (March 2020) (Co-Author Suket Arora).Dialogue System in Context with Natural Language Processing,Studies in Indian Place Names, 40(50), 1376-1381, ISSN 2394-3114.(UGC Approved List)
- Singh, Sarabjit. (March 2020)(Co-Author Suket Arora).Question Answering Based Dialogue System in Punjabi Language,Studies in Indian Place Names, 40 (50), 1694-1704, ISSN 2394-3114.(UGC Approved List)

### Dr. Priyanka Mahajan

- Mahajan, Priyanka. (Feb. 2020). Emerging Need To Rethink English Language Pedagogies In Indian Technical Education: Creative Pedagogy A Better Approach For Vocabulary Instruction. Humanities &Social Sciences Reviews,8(1), 829-836, e-ISSN 2395-6518, <https://doi.org/10.18510/hssr.2020.8199> (Scopus Indexed/UGC-Care Listed)
- Mahajan, Priyanka. (Dec.2019). A Study of the Image of Man in Mahasweta Devi's Rudaliand Shobha De's Socialite Evenings. Procd.of ISER-ACN International Conference on Education & Social Science, Singapore, Institute of Research and Journal (IRAJ), 19, 31-34, ISBN 978-93-89732-29-0, [http://conferencegallery.com/excellent.php?exel\\_pep\\_id=474](http://conferencegallery.com/excellent.php?exel_pep_id=474)

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## DEPARTMENT OF MECHANICAL ENGINEERING, MAIN CAMPUS

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---

### Dr. Jujhar Singh

- Shubham Sharma, Mandeep Singh, N. Jayarambabu, KalagaddaVenkateswara Rao, and Jujhar Singh (2019), Investigation of Properties of Mg and Al based Nano Hybrid-metallic Composites Processed through Liquid Processing Technique, Advances in Design, Simulation and Manufacturing, Lecture notes in Mechanical Engineering, pp 466-476.
- Shubham Sharma, Jujhar Singh, N. Jayarambabu, Chander Prakash, Sunpreet Singh, Abhinav Sharma and Harish Kumar (2019), Effect of Intercritical Heat Treatment & Volume Fraction on the Morphological properties, Mechanical properties and Work Hardening behaviour of Dual-Phase Steel, Lecture notes in Mechanical Engineering.
- Sunil Mahla, Kulwinder Parmar, Jujhar Singh, Amit Dhir, Sarbjot Singh Sandhu, Bhupendra Chauhan (2019)“Trend and time series analysis by ARIMA model to predict the emissions and performance characteristics of biogas fuelled compression ignition engine” Energy Source, part A: Recovery, utilization and environment effects, doi.org/10.1080/15567036.2019.1670286.
- Ram Narayan Muni, Jujhar Singh, Vineet Kumar, Shubham Sharma (2019),Parametric optimization of rice husk ash, copper, magnesium reinforced aluminium matrix hybridcomposite processed by EDM, ARPN Journal of Engineering and Applied Sciences, Vol. 14, no. 22, pp-3832-3839.
- Rajeev Kumar, Manpreet Singh, Jujhar Singh, JaiinderPreet Singh, Piyush Gulati, Nitin Chauhan, Sumit Shoor (2019),Characterization of Bearings on Different Rpm and Faults, Think India Journal, Vol-22, Issue-17, pp 1210-1217. (ISSN: 0971-1260).
- Rajeev Kumar, Manpreet Singh, Jujhar Singh, Jaiinder Preet Singh, Piyush Gulati, Nitin Chauhan, Sumit Shoor (2019), Finite Element Analysis of A Muff Coupling Using CAE Tool, Think India Journal, Vol-22, Issue-17, pp 1210-1217. (ISSN: 0971-1260).
- Chander Prakash, Sunpreet Singh, Shubham Sharma, Jujhar Singh, Gursharan Singh (2019), Fabrication of aluminium carbon nano tube silicon carbide particles-based hybrid nano-composite by spark plasma sintering, Materials Today-Proceedings, Vol. 21, pp 1637-1642.
- Chander Prakash, Sunpreet Singh, Shubham Sharma, Jujhar Singh, Gursharan Singh, Manoj Mittal, Harish Kumar (2020),Fabrication of low elastic modulus Ti50Nb30HA20Alloy by Rapid Microwave Sintering Technique for Biomedical Applications, Materials Today-Proceedings, Vol. 21, pp 1713-1716.
- Ram Narayan Muni, Jujhar Singh, Vineet Kumar, Shubham Sharma (2020) “Influence of rice husk ash, Cu, Mg on the mechanical behaviour of Aluminium Matrix hybrid composites” International Journal of Applied Engineering Research, Volume 14 (8), pp. 1828-1834, (ISSN 0973-4562).
- Shubham Sharma, Jujhar Singh, Harish Kumar, Abhinav Sharma, Vivek Aggarwal, Amoljit Singh Gill, N Jayarambabu, Saraswathi Kailasa and K Venkateswara Rao (2020), “Utilization of rapid prototyping technology for the fabrication of an orthopedic shoe inserts for foot pain relieve using thermo-softening viscoelastic polymers: A novel experimental approach”, Journal of Measurement and Control.
- Mohamed Rafik Noor Qureshi, Shubham Sharma, Jujhar Singh, Shaik Dewood Abdul Khadar, Rahmath Ulla Baig (2020), Evaluation of surface roughness in the turning of mild steel under different cutting conditions using backpropagation neural network, Proceeding of the Estonian academy of sciences, Manufacturing Engineering, Vol. 69 (2) pp 109-115.
- Shubham Sharma, Jujhar Singh, N. Jayarambabu, K. Venkateswara Rao, Anish Sachdeva, Gursharan Singh, SK Mahla(2019), Experimental analysis of symmetrical and phase identification structural properties of nanosize metamorphic aluminosilicate mineral (Al<sub>2</sub>O<sub>3</sub>.SiO<sub>2</sub>), 6th International conference on production and industrial Engineering (CPIE-2019), Dr B.R. Ambedkar National Institute of Technology Jalandhar-144011, India, June 8-10, 2019.
- Shubham Sharma, Jujhar Singh, N.Jayaram Babu, Saraswathi Kailasa, K Venkateswara Rao, Anish Sachdeva and Abhinav Sharma,(2019), Investigating the Morphological analysis of Nickel Nanoparticles thin films deposited on Sapphire substrate using the Electron beam evaporation technique,1st International conference on Materials Science and Engineering (ICMSE-2019),DR B R Ambedkar National Institute of Technology, 11-12 June 2019.

### Dr. Vivek Aggarwal

- Rohit Sharma, Vivek Aggarwal, H. S. Payal, 2019, “Taguchi Optimization of Wire EDM Parameters for Surface Roughness of Al 6061 Alloy Based Composite with Sic Reinforcement”, International Journal of Engineering and Advanced Technology, 8(6): 2506-2515. (Scopus Indexed)
- Rohit Sharma, Vivek Aggarwal, H. S. Payal, 2019, “Optimization of micro hardness of Al-Sic 6061 MMC machined by Wire EDM with Taguchi method”, International Journal of Engineering and Advanced Technology, 8(6): 5375-5382. (Scopus Indexed)

### Dr. Deepak Kumar Goyal

- Mithlesh Sharma, Deepak Kumar Goyal, and Gagandeep Kaushal (June,2019), “Micro-structural and tribological assessment of HVOF sprayed coating by Co alterations for wear applications”, Materials Research Express, Vol. 6, p1-18, ISSN: 2053-1591
- Deepak Kumar Goyal, Harpreet Singh, and Harmesh Kumar (July, 2019), “Characterization and Accelerated Erosion Testing of HVOF-sprayed WC-Co-Cr and CoNiCrAlY Coatings on CA6NM Turbine Steel”, Journal of Thermal Spray Technology, Springer, Vol. 28(7), p 1363–1378, ISSN: 1544-1016

- Sarpreet Singh, Deepak Kumar Goyal, Parhlad Kumar and Anuj Bansal (Jan,2020), "Laser cladding technique for erosive wear applications: a review", *Materials Research Express*, Vol. 7, p1-15, ISSN: 2053-1591
- Varun Panwar, Neel Kanth Grover and Vikas Chawla, 2019, "Wear behaviour of plasma sprayed WC–12%Co and Al<sub>2</sub>O<sub>3</sub>–13%TiO<sub>2</sub> coatings on ASTM A36 steel used for I.D. fans in coal fired power plants", *Materials Research Express*, 6 1065b6 <https://doi.org/10.1088/2053-1591/ab3eef>
- Avtar Singh, Vinod Kumar and Neel Kanth Grover, 2019, "A study of microstructure and mechanical properties of friction stir welding aluminium alloy AA6082 with Zn interlayer", *Materials Research Express*, 6, 116596 <https://doi.org/10.1088/2053-1591/ab4b1f>
- Avtar Singh, Vinod Kumar and Neel Kanth Grover, 2019, "Influence of tool pin profiles on friction stir welding with a gap for AA6082-T6 aluminium alloy", *Materials Research Express*, 6, 086543 <https://doi.org/10.1088/2053-1591/ab18cc>
- Varun Panwar, Neel Kanth Grover and Vikas Chawla, 2019, "Erosion studies of plasma sprayed WC-12%Co, Cr<sub>3</sub>C<sub>2</sub>-25%NiCr, 80%Ni-20%Cr, 87%Al<sub>2</sub>O<sub>3</sub>-13%TiO<sub>2</sub> coatings on ASTM A36 steel," *Materials Research Express*, 7 026520 <https://doi.org/10.1088/2053-1591/ab7072>

---

## DEPARTMENT OF MANAGEMENT, MAIN CAMPUS

---

### Dr. Harmeen Soch

- Kaushik, Priyanka and Soch, Harmeen (2019), "Impact of Brand Commitment on Brand Equity: A Conceptual Framework", *International Journal of Management Studies*, Volume VI, Special Issue 5, June 2019, pp. 24-27.
- Kaur, Jaspreet and Soch, Harmeen (2019), "Mobile Shopping: An Analysis of Extended Technology Acceptance Model of Indian Consumers", *International Journal of Management Studies*, Volume VI, Issue 1(2).
- Kaushik, Priyanka and Soch, Harmeen (2019), "Brand Satisfaction and Brand Equity: An Interplay between Various Dimensions of Customer Brand Engagement", *International Journal of Management Studies*, Volume 6, Issue 1, January 2019, pp. 1-7 [UGC Approved Journal No. 44925, Impact Factor (IBI) 2.26].

### Dr. Kapil Gupta

- Kaur, Mandeep and Gupta, Kapil (2019) "Investigating the Impact of Hedge Horizon upon Hedging Effectiveness: Evidence from National Stock Exchange of India" *Management and Accounting Review*, Volume 8, No. 2, 131-162.
- Mall, Pinky and Gupta, Kapil (2019) "Impact of Merger Announcements on Stock Returns of Acquiring Firms: Evidence from India" *Journal of Commerce and Accounting Research*, Volume 8, Issue 1, 46-53.
- Mall, Pinky and Gupta, Kapil (2019) "Impact of Merger and Acquisition Announcements on Stock Returns and Intraday Volatility: Evidence from Indian Banking Sector" *Journal of Entrepreneurship and Management*, Volume 8, Issue 3, 1-11.
- Bala, Anju and Gupta, Kapil (2019) "Examining the Long Memory in Equity Market: Evidence from Major Sectoral Indices of National Stock Exchange of India" *International Journal of Business Analytics and Intelligence*, Volume 7, Issue 1, 24-35.
- Mall, Pinky and Gupta, Kapil (2019) "Impact of Mergers on Stock Performance and Risk of Acquiring Firms: Evidence from India" *Drishtikon: A Management Journal*, Volume 10, Issue 1, 27-46.
- Bala, Anju and Gupta, Kapil (2019) "Examining the Long Memory in Equity Market: Evidence from Major Sectoral Indices of National Stock Exchange of India" *International Journal of Business Analytics and Intelligence*, Volume 7, Issue 1, 24-35.
- Mall, Pinky and Gupta, Kapil (2019) "Impact of Mergers on Stock Performance and Risk of Acquiring Firms: Evidence from India" *Drishtikon: A Management Journal*, Volume 10, Issue 1, 27-46.

### Dr. Mandeep Kaur

- Mandeep Kaur, Kajal Kiran, "An Empirical Investigation of Population Wise Performance of Schedule Commercial Banks towards Financial Inclusion in India on selected Parameters" *European Journal of Business and Social Science International Journal of Research in Social Science*, Volume 7, Issue 6, June 2019, ISSN 2235-767X, PP 223-231
- Mandeep Arora, Hemant Kumar, "Factors Influencing Stock Price of Manufacturing Sector: An Empirical Analysis of NSE Listed Companies" *Journal of Gujarat Research Society*, ISSN:0374 8588, Volume 21, Issue 11, November 2019, pp 346-358

- Mandeep Kaur, Kritika Sharma, "Intangible Asset Reporting Practices: A Comparative Analysis of Indian and Global Companies" *Think India Journal*, ISSN 097-1260, Volume 22 Issue 14, December 2019, PP 492-519
- Mandeep Kaur, Kajal Kiran, "An Empirical Investigation of Region Wise Performance of Schedule Commercial Banks towards financial inclusion in India on selected Parameters" *International Journal of Management IT & Engineering*, Volume 9, Issue 7, July 2019, ISSN 2249-0558, PP 443-454
- Satish Kumar, Mandeep Kaur, "Comparative Analysis of Corporate Governance Elements of Indian and Foreign Banks," *Sustainable Humanosphere Journal*, Volume 16, Issue 1, March 2020

### Dr. Pooja Mehta

- Soni, Deepali and Mehta, Pooja (2020), "Manifestation of Internal CSR on Employee Engagement: Mediating Role of Organizational Trust", *Indian Journal of Industrial Relations*, Vol. 55, No. 3, pp. 441 - 459 (ISSN: 0019-5286) (Indexed in EBSCO, Proquest, GALE/CENGAGE, JSTOR, ABDC-'C' category).
- Singh Amandeep, Mehta, Pooja and Dev, Kapil (2019), "An Analysis of Journey of Basel Norms for Supervision of Banks", *International Journal of Scientific Research and Review*, Vol. 7, Issue June, pp. 7-11.
- Soni, Deepali and Mehta, Pooja (2019), "Linking Corporate Social Responsibility and Work Engagement: An Empirical Evidence", *Indian Journal of Industrial Relations*, Vol. 55, No. 1, pp. 167-181 (ISSN: 0019-5286) (Indexed in EBSCO, Proquest, GALE/CENGAGE, JSTOR, ABDC-'C' category).
- Mehta, Pooja and Kaur, Harleen (2019), "Antecedents and Outcome of Work Engagement: A Review and Agenda for Future Research", *International Journal of Scientific Research and Review*, Vol. 7, Issue May, pp. 1944-1954.
- Singh Amandeep, Mehta, Pooja and Dev, Kapil (2019), "Risk Reporting in Case of Banks: Listing down Qualitative and Quantitative Parameters", *International Journal of Scientific Research and Review*, Vol. 7, Issue May, pp. 1324-1332.
- Bhalla, Rupa & Mehta, Pooja (2019), "Green HR Practices: The Savior from Adverse Impacts of Global Warming", *Journal of Advances and Scholarly in Allied Education*, Vol. 16, No. 5 (ISSN:2230-7540), pp. 1-6.

### Dr. Sanjeev K. Bansal

- Bansal, Dr.Sanjeev K.,Bala, Dr.Rajni and CMA Deepak(2019), "Big Data Analytics: Implications and Prospects for Accounting Professionals", *The Management Accountant*, ISSN:0972-3528,May 2019, Pp.47-51.(Not Listed in UGC Care List Now).

### Dr. Roopali Batra

- Batra, Roopali and Nayyar, Varun (2019), "Media Preferences among Consumers: Empirical Evidence from India", *PIMT Journal of Research*, Volume 12, Issue 1, pp-77-82
- Kaur, Sonpreet and Batra, Roopali (2019), "Evaluating Students Perception Regarding Prevailing Practices of TQM in Management Institutions of Punjab" *International Journal of Innovative Technology and Exploring Engineering (IJITEE)*, Volume 8, Issue 12

- Kaur, Sonpreet and Batra, Roopali (2019), "Assessing Faculty Perception towards Total Quality management of Education Sector in Punjab" International Journal of Recent Technology and Engineering (IJRTE), Volume 8, Issue 3.

#### Dr. Rajpreet Kaur

- Kaur, Rajpreet and Kaur, Davinder (2020), "The Burning Amazon Rain Forest: its Cause and Results", Proceedings of the 107th Indian Science Congress, University

of Agricultural Sciences, Bangalore.

#### Ms. Mandeep Kaur (Guest Faculty)

- Kaur, Mandeep and Gupta, Kapil (2019) "Investigating the Impact of Hedge Horizon upon Hedging Effectiveness: Evidence from National Stock Exchange of India" Management and Accounting Review, Volume 8, No. 2, 131-162.

---

## DEPARTMENT OF PHYSICAL SCIENCES, MAIN CAMPUS

---

#### Dr. Hitesh Sharma

- Graphene nanoribbons under axial compressive and point tensile stresses, Sandeep Kaur, Hitesh Sharma, V.K. Jindal, Vladimir Bubanja and Isha Mudahar, Physica E: Low dimensional System and Nanostructures, 111, 1-12 (2019).
- Substitutional doping of symmetrical sized small fullerene dimmers, Sandeep Kaur, Amrisha Sharma, Hitesh Sharma and Isha Mudahar, In. Journal of Quantum Chemistry, 119, 23, 1-12 (2019).
- Thermal Conductivity of pure and doped (B,N) Graphene" by Sarita Mann,; Isha Mudahar, Hitesh Sharma, V.K. Jindal, G. Dubey, Gumbs, Godfrey Fessatidis, Vassilios, Material Research Express 2020 (in press).
- Effect of Twist Angle on Structural, Electronic and Magnetic Properties of Carbon Nano Hybrids: A DFT Study, Amrisha Sharma, Sandeep Kaur, Hitesh Sharma, Neha Kapila, V.K. Jindal, Vladimir Bubanja, Computational Materials Science 2020 (in press).

#### Dr. Varinderjit Singh

- Dynamical effects of Si-isotopes induced reactions at similar centre of mass energies ECM, Rupinder Kaur, Varinderjit Singh, Maninder Kaur, BirBikram Singh, and B. S. Sandhu, DAE-BRNS Symp. on Nucl. Phys. Lucknow (India) 64, 455 (2019).
- ER Gated light particle spectra at various energies to study the entrance channel effect due to mass asymmetry, H. Arora, B.R. Behera, K. Rani, Shruti, M. Kumar, Amit, C. Sharma, Subodh, D. Arora, A. Kaur, S. Singh, N. Saneesh, Varinderjit Singh, A. Jhingan, K.S. Golda, H. Singh, P. Sugathan, and Gulzar Singh, DAE-BRNS Symp. on Nucl. Phys. Lucknow (India) 64, 497 (2019).
- Investigation Of Fusion Dynamics For Reactions Induced By Si-isotopes At Similar ECM, Rupinder Kaur, Maninder Kaur\*, Varinderjit Singh, BirBikram Singh, and B.S. Sandhu, L-0053[AIP] ICC 2019 Bikaner, October 14-15, 2019.

---

## DEPARTMENT OF FOOD SCIENCE AND TECHNOLOGY, MAIN CAMPUS

---

#### Dr. Barinderjit Singh

- Shafiya Rafiq, Barinderjit Singh, Yogesh Gat (2019). Effect of different drying techniques on chemical composition, color and antioxidant properties of kinnow (*Citrus reticulata*) peel, Journal of Food Science and Technology, 56(5): 2458-2466. (Impact factor 1.849)
- **Laxmi Ananthanarayan, Vikas Kumar, Anil Panghal, Barinderjit Singh,** Roji Waghmare, Yogesh Gat and Narinder Kaur (2019). Use of microalgal biomass as novel functional ingredient for preparation of cereal based extrudates: impact of processing on amino acid profiling and colour degradation kinetics, Brazilian Journal of Pharmaceutical Sciences (Accepted)

**INVITED TALK: Barinderjit Singh** (2019) delivered an invited talk on "Food Safety Standard for Indian Food Industry" at DAV College, Jalandhar (October 5, 2019).

**PRESENTATIONS IN NATIONAL & INTERNATIONAL CONFERENCES:** Sonia Mahajan, Barinderjit Singh\* (2020). Optimization of the extraction conditions for polyphenolic compounds from pigeon pea using response surface methodology. 23rd Punjab Science Congress on Emerging trends in Science and Technology for sustainable Development (7-9 Feb, 2020) at SLIET, Longowal

**POSTER PRESENTATIONS IN NATIONAL CONFERENCES:** Reetu\*, Barinderjit Singh, Aayush Wadhwa (2020) Biofortification of Sorghum for Combating Hidden Hunger for Iron. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).

- Suraj Prabha\*, Barinderjit Singh (2020) Physical, Optical and Textural Properties of Different Varieties of Carrots (*Daucus carota*). Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Jasmin Kaur\*, Barinderjit Singh (2020) Technologies for Nutritional Enhancement of Grain Based Products with Bioactive Components. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Abhishek Sharma\*, Barinderjit Singh (2020) Nutritional Value and Engineering Properties of Kainth fruit. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Abhishek Bhargav\*, Barinderjit Singh (2020) Nutrition Enhancement of Muffin with Bioactive Components. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Amy Masih\*, Barinderjit Singh (2020) Engineering Properties of Different Varieties of Beans. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Manpreet Kaur\*, Barinderjit Singh (2020) Engineering Properties of Major Legumes. Multi-Disciplinary National Conference "Science & Technology for

Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).

- Sonia Mahajan, Barinderjit Singh\* (2020). Sequential Combination of Ultrasound and Microwave-Assisted Extraction of polyphenols from black gram. 23rd Punjab Science Congress on Emerging trends in Science and Technology for sustainable Development (7-9 Feb 2020) at SLIET, Longowal
- Suraj Prabha\*, Barinderjit Singh (2020). Engineering Properties of Different Varieties of Carrot. 23rd Punjab Science Congress on Emerging trends in Science and Technology for sustainable Development (7-9 Feb 2020) at SLIET, Longowal
- Reetu\*, Aayush Wadhwa, Barinderjit Singh (2020) Iron Biofortification of Sorghum by Soaking and Germination: Effect on Proximate Composition, Iron, Bioactive and Functional Properties. 23rd Punjab Science Congress on Emerging trends in Science and Technology for sustainable Development (7-9 Feb 2020) at SLIET, Longowal
- Jasmin Kaur\*, Barinderjit Singh (2020) Technologies for Nutritional Enhancement of Grain Based Products with Bioactive Components. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Abhishek Sharma\*, Barinderjit Singh (2020) Nutritional Value and Engineering Properties of Kainth fruit. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Abhishek Bhargav\*, Barinderjit Singh (2020) Nutrition Enhancement of Muffin with Bioactive Components. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Amy Masih\*, Barinderjit Singh (2020) Engineering Properties of Different Varieties of Beans. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Manpreet Kaur\*, Barinderjit Singh (2020) Engineering Properties of Major Legumes. Multi-Disciplinary National Conference "Science & Technology for Sustainable Future" (March 6-7, 2020) at DAV College, Jalandhar (SERB-DST & DBT Sponsored).
- Sonia Mahajan, Barinderjit Singh\* (2020). Sequential Combination of Ultrasound and Microwave-Assisted Extraction of polyphenols from black gram. 23rd Punjab Science Congress on Emerging trends in Science and Technology for sustainable Development (7-9 Feb 2020) at SLIET, Longowal
- Suraj Prabha\*, Barinderjit Singh (2020). Engineering Properties of Different Varieties of Carrot. 23rd Punjab Science Congress on Emerging trends in Science and Technology for sustainable Development (7-9 Feb 2020) at SLIET, Longowal
- Reetu\*, Aayush Wadhwa, Barinderjit Singh (2020) Iron Biofortification of Sorghum by Soaking and Germination: Effect on Proximate Composition, Iron, Bioactive and Functional Properties. 23rd Punjab Science Congress on Emerging trends in Science and Technology for sustainable Development (7-9 Feb 2020) at SLIET, Longowal

**Dr. Gaurav Bhargava**

- Kapil Kumar, Harminder Singh, Vanita Vanita, Ramesh Singh, K.B. Joshi, Gaurav Bhargava, Subodh Kumar, Prabhpreet Singh, "Coronene diimide-based self-assembled (fibre-to-disc) fluorescent aggregates for visualization of latent fingerprint," *Sensors and Actuators B: Chemical*, 2019, 283, 651-658.
- Arun Kumar, Naveen Kumar, Ritika Sharma, Gaurav Bhargava, Dinesh Mahajan, "Direct Conversion of Carboxylic Acids to Various Nitrogen-Containing Compounds in the One-Pot Exploiting Curtius Rearrangement" *Journal of Organic Chemistry*, 2019, 84(17), 11323-11334
- Amit Anand, Prabhpreet Singh, Vipin Kumar and Gaurav Bhargava, "Transition metal catalyzed [6 + 2] cycloadditions, *RSC Advances*, 2019, 9, 25554-25568
- Kapil Kumar, Sandeep Kaur, Satwinderjeet Kaur, Gaurav Bhargava, Subodh Kumar and Prabhpreet Singh, "Perylene diimide-Cu<sup>2+</sup> based fluorescent nanoparticles for the detection of spermine in clinical and food samples: a step toward the development of a diagnostic kit as a POCT tool for spermine" *J. Mater. Chem. B*, 2019, 7, 7218-7227
- Poonam Sharma, Kapil Kumar, Sandeep Kaur, Satwinderjeet Kaur, Gaurav Bhargava, Subodh Kumar, Prabhpreet Singh "Near-IR discriminative detection of H<sub>2</sub>S and Cysteine with 7-nitro-2,1,3-benzoxadiazole-perylenediimide conjugate in water, live cells and solid state: Mimicking IMP, INH and NOR/OR complimentary logic" *Journal of Photochemistry and Photobiology A: Chemistry*, 2020, 388, 11215
- Kapil Kumar, Sandeep Kaur, Satwinderjeet Kaur, Gaurav Bhargava, Subodh Kumar, Prabhpreet Singh, "A multifunctional perylenediimide-based dual-analyte chemodosimeter for specific and rapid detection of H<sub>2</sub>S and Pd<sup>0</sup> in water, biofluids, live cells and solid state" *Journal of Photochemistry and Photobiology A: Chemistry*, DOI 2020, 10.1016/j.jphotochem.2019.112189
- Bilash Kuila, Rayees Ahmad, Dinesh Mahajan, Prabhpreet Singh, Gaurav Bhargava, "Nickel (0) Catalyzed (3+2) Cycloadditions of Bis-alkylidene cyclopropanes with Diazenes: A Facile Synthesis of Functionalized Pyrazolidine-1,2-Dicarboxylates". *Synlett*, 2020, 31(01), 65-68
- Kapil Kumar, Sandeep Kaur, Satwinderjeet Kaur, Gaurav Bhargava, Subodh Kumar and Prabhpreet Singh, "Self-assembled nanofibers of perylene diimide for detection of hypochlorite in water, bio-fluids and solid state: Exogenous and endogenous bioimaging of hypochlorite in cells" *Journal of Materials Chemistry B*, 2020, 10.1039/C9TB01902B

- Bilash Kuila, Priyanka Sharma, Dinesh Mahajan, Prabhpreet Singh and Gaurav Bhargava, "Rhodium-catalysed chemo- and regio-selective [3 + 2] cycloadditions of bis(methylenecyclopropanes) and alkynes: Synthesis of spirocyclic 5-7 condensed cycloheptenes, *Syn Commun*, 2020, 50(6), 840-848.

**Dr. Chander Prakash**

- Arora R, Parkash C, Synthesis, Characterization and Evaluation of Anticancer Activity of Nanovesiculated in B16 Melanoma Cell Line, *Journal of Drug Delivery and Therapeutics*. 2019; 9(4-A):625-631

**Dr. Vandana Naithani**

- Ravinder Kumar Chadha, Anirudh P. Singh, Kanchan L. Singh, Chetan Sharma, Vandana Naithani, Influence of microwave processing and sintering temperature on the structure and properties of Sr/Zr doped hydroxyapatite, *Materials Chemistry and Physics*, 2019, 223; 319-324.
- Bhawesh Joshi<sup>1</sup>, MK Nautiyal, Leela Bhatt, Vikas Mangal, Vandana Naithani, Estimation of Genetic Variability in *Jatropha Curcas* L. Genotypes for Vegetative Traits and Seed yield. *Chem Sci Rev Lett*, 2019, 8(29), 11-15.
- Chetan Sharma, Anirudh P. Singh, Kanchan L. Singh, Payal Sharma; Sonia mago; Vandana Naithani; Ravinder Chadha, Comparison of microwave and conventionally sintered manganese and niobium doped lanthanum germanate based apatites by Micro Raman Spectroscopy. *Materials Chemistry and Physics*, 2020, 240, 122040.
- Ravinder Kumar Chadha, Anirudh P. Singh, Kanchan L. Singh, Chetan Sharma, Vandana Naithani, Effect of Microwave and Conventional processing techniques on mechanical properties of Strontium substituted hydroxyapatite. *Ceramics International*, 2020, 46(1), 1091-1098.

**Dr. Rupesh Kumar**

- Simran Harsh, Diksha, Baljinder Singh, Sanjay Kumar, Rohit Sharma, Yogesh Kumar, Rupesh Kumar "Chlorophyll Triggered One-Pot Synthesis of 3,4-Dihydropyrimidin-2(1H)-ones via Photo Induced Electron transfer reaction" *Arabian J. Chem.*, 2020, 13(3), 4720-4730.

**Dr. Roopa**

- Roopa, Naresh Kumar, Manoj Kumar and Vandana Bhalla "Design and Applications of Small Molecular Probes for Calcium Detection" *Chemistry - An Asian Journal*, 2019, 14, 4493-4505.

**Dr. Prabhjot Kaur**

- Shikha Aggarwal and Prabhjot Kaur, "Design Technologies For High Performance Energy Efficient Buildings", Journal Of Emerging Technologies And Innovative Research" (2019), Vol. 6, Issue 6; 444- 452, E-ISSN 2348-5162.
- Shikha Aggarwal and Prabhjot Kaur, "Footprint Of Building Technology For The Next Decade", International Journal Of Research And Analytical Reviews (2019) ,Vol. 6, Issue 6 ; 453- 457, E-ISSN 2349-5138.
- Shikha Aggarwal and Prabhjot Kaur, "Maintenance Of Glass Curtain Walls" in", Journal Of Emerging Technologies And Innovative Research" (2019), Vol. 6, Issue 6; 437- 443, E-ISSN 2349-5162.
- Shikha Aggarwal and Prabhjot Kaur, "Studies on International Building Energy Codes for Net Zero Energy Buildings", International Journal Of Research And Analytical Reviews (2019), Vol. 6, Issue 2; 986- 990, E-ISSN 2349-5138.
- Shikha Aggarwal and Prabhjot Kaur, "Developing global building energy efficiency regulations for net zero energy building and net zero carbon building", Conference Proceedings, International Conference on Architecture, civil and environmental engineering, Jawahar Lal National University, New Delhi (2019).
- Ar. Ramanjyot Shrivastava, Prof. S.Y.Kulkarni and Dr. Prabhjot Kaur, "Compositional Beauty of Paintings at Guru Ram Rai Durbar, Dehradun" Journal of Arts, Culture, Philosophy, Religion, Language and Literature (2019) 466-477. e-ISSN:2457-0346
- Ar. Ramanjyot Shrivastava, Prof. S.Y.Kulkarni and Dr. Prabhjot Kaur, "An Empirical Study on Guru Ram Rai Durbar: A Living Heritage" International Journal of Engineering Applied Sciences and Technology (2019) Vol.4. Issue 8, ISSN No.2455-2143, 109-118 ISSN No. 2455-2143 Published Online December 2019 in IJEAST (<http://www.ijeast.com>)
- Manoj Kumar and Dr. Prabhjot Kaur, "Linking Aspects of Housing Quality to the Urban Quality of Life:A Conceptual Overview", International Journal of Research and Analytical Reviews (2019). 6(1):158-161. ISSN: 2349-5138.

**Dr. Mukta Sharma**

- Mukta Sharma, Shivani Sharma, Mohit Kumar, S.K. Singh (2019), "Analysis of Slope Stability of road cut Slopes of Srinagar, Uttrakhand, India". International Journal of Applied Engineering Research (IJAER), 609-615, 14.
- Dapinderdeep Singh and Mukta Sharma(2019), "Geospatial Analysis of Groundwater Quality in Ludhiana, Punjab (India)", Journal of Geography, Environment and Earth Science International 20(3): 1-12, 2019; Article no.JGEESI.48345 ISSN: 2454-7352
- Mukta Sharma, Shivani Sharma, Ritambra Upadhyaya, T.N.Singh (2019), "Geotechnical stability assessment and Finite Element Modeling of road cut slopes-a case study of Srinagar, Garhwal Himalayas, India", communicated in Indian Geotechnical Journal.
- Dapinder Deep Singh, Parteek Singh Thind, Mukta Sharma, SashikantaSahoo and Siby John (2019), Environmentally Sensitive Elements in Groundwater of an Industrial Town in India: Spatial Distribution and Human Health Risk, Water 2019, 11, 2350
- Mukta Sharma, 'Ground Water Analytics for measuring quality and quantity', Urban Book Series : Geospatial Technology and Smart Cities ; Springer International Publishing (Accepted)

**Dr. Neeru Singla**

- Neeru Singla, Ashok Kumar Gupta and Yeshpal Vasishta " Ultimate Load in Beam Column Joints under Opening Moment using Genetic Algorithm" International Journal of Recent Technology and Engineering Volume 8, Issue 3, Sept. 2019; ISSN: 2277-3878
- Neeru Singla, Jatinder Singla, Sunil Kumar Mahla and Geetesh Goga "Emissions Characteristics of Biogas-Diesel Fuel Blends in Compression Ignition Engine" International Journal on Emerging Technologies, 10(2): 422-426(2019); ISSN NO. 2249-3255
- Neeru Singla, Jatinder Singla, Sunil Kumar Mahla and Geetesh Goga "Investigation on Performance and Emission Characteristics of Diesel Engine Fuelled with Biogas and ethanol – Biodiesel – Diesel Blend" International Journal on Emerging Technologies, 10(3): 148-154(2019); ISSN NO. 2249-3255
- Neeru Singla and Yeshpal Vasishta "Light Weight aggregate Concrete with Sawdust and Brick Ballast" Lambert Academic Publishing ISBN: 978-620-0-53704-1; 2019
- Neeru Singla and Yeshpal Vasishta "Mathematical Formula for Calculation of Ultimate Load in Beam Column Joints Under OpeningMoment" Lambert Academic Publishing ISBN- 978-620-0-43926-0; 2019
- Neeru Singla and Yeshpal Vasishta "To Improve the Properties of Concrete by Using Straight and Crimped Waste Pet Fibers" Lambert Academic Publishing ISBN- 978-620-0-53564-1; 2019

**Ar. Jit Kumar Gupta**

- Jit Kumar Gupta and Nishant Rai , "Chandigarh Experiment with Low Cost Housing ;"Journal of The Indian Institute of Architects: Vol-84/Issue-04: April 2019 : 09-13. ISSN: 0019-4913
- Jit Kumar Gupta and Anoop Sharma , "Compact City as an Option for Making Indian Cities Smart and Sustainable;"Journal of The Indian Institute of Architects: Vol-84/Issue-08 August 2019: 11-15. ISSN: 0019-4913
- Jit Kumar Gupta, "Planning for Sustainable New Cities in India;" IBC – Seminar on Development of New Greenfield Townships: Vol 28 number One, January 2020 : 09-15. ISSN: 2349-7475
- Jit Kumar Gupta, "Reinventing Construction Sector in India;" IBC – Seminar on Construction Management Tools, Modern Technologies& Materials in Built Environment: Vol 27 number One, June 2019 : 36-42. ISSN: 2349-7475
- Jit Kumar Gupta, "Promoting Sustainable Infrastructure in Urban India;" IBC Journal- Research & Review of Technology: Vol V, January 2020: 12-18. ISSN: 2349-7467
- Jit Kumar Gupta, "Architects and Architecture in the Changing Context of Registration under Indian Architects Act, 1972"; Indian Architects & Builders; Vol 32(10); June 2019: 24-27. ISSN: 0971-5509
- Jit Kumar Gupta, "Strategies for Promoting Good Urban Governance"; Proceedings 68th National Town &Country Planning Congress, Mumbai; January 11-13, 2020: 354-362
- Yamini Gupta and Jit Kumar Gupta, " Approaching Sustainable Development through Leveraging Traditional Water Structures- Case Study Jhunjhunu"; Proceedings 68th National Town &Country Planning Congress, Mumbai; January 11-13, 2020: 338-347

**Dr. Amit Sarin, Associate Professor, Physical Sciences**

- Seasonal Variation of Indoor radon/thoron and their progeny levels in lesser Himalayas of Jammu & Kashmir, India, Journal of Radio analytical and Nuclear Chemistry, Vol 323, pp 495-506, 2020.
- Effect of metal contaminants and antioxidants on the oxidation stability of Argemone Mexicana biodiesel, Experimental and Statistical study, Waste and Biomass Valorization, 2019, <https://doi.org/10.1007/s12649-019-00886-5>.
- Antioxidative potential of Phyllanthus emblica for oxidation stability of biodiesel, Environmental Progress & Sustainable Energy, Vol 38, pp 721-726, 2019.

**Dr. Sukhminderbir Singh Kalsi, Assistant Professor, Mechanical Engineering**

- Microstructure of Ni-Cr-Based Coating for Corrosive Conditions, Journal of Thermal Spray Technology, Vol. 28, pp. 1420-1432, 2019.

- Analysis of cold spray-coated boiler-tube material in a chlorine-based corrosive environment at 900°C, Materials and Corrosion, 2019, <https://doi.org/10.1002/maco.201911116>.

**Dr. Vikramjeet Singh, Assistant Professor, Mathematical Sciences**

- The fuzzyfied Supply chain finite planning horizon model, Journal of Computational and Theoretical Nanoscience, Vol.16(10), pp. 4135-4142, 2019.
- Green Inventory Supply Chain Model with Inflation under Permissible Delay in Finite Planning Horizon, Advances in Science, Technology and Engineering Systems Journal, Vol. 4(5), pp 123-131, 2019.

---



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**HOSHIARPUR CAMPUS**

---



---

**Dr Vikas Chawla (Director)**

- V Panwar, NK Grover and Vikas Chawla (2020) Erosion studies of plasma sprayed WC-12%Co, Cr3C2-25%NiCr,80%Ni-20%Cr, 87%Al2O3-13%TiO2 coatings on ASTM A36 steel", Materials Research Express (IOP Publishing Ltd.) (issn.2053-1591 / Online ISSN: 2053-1591), Impact Factor 1.449 (SCI) Vol. 7.
- [Amardeep Singh Kang](#) , Gurbhinder Singh, Vikas Chawla (2020) In-vitro performance of reinforced hydroxyapatite coatings deposited using vacuum plasma spray technique on Ti-6Al-4V Materials Today: Proceedings, [ISSN: 2214-7853 (Elsevier)
- Shashi Kant, Manoj Kumar, Vikas Chawla, Supreet Singh (2020) [Study of High Temperature Oxidation Behavior of Wire Arc Sprayed Coatings](#) Materials Today: Proceedings, [ISSN: 2214-7853 (Elsevier), Vol. 21, pp 1741-1748
- Vineet Shibe and Vikas Chawla (2019) Erosion studies of cermet-coated ASTM A36 steel, Industrial Lubrication and Tribology (ISSN: 0036-8792), Impact Factor 0.763 (SCI), Vol. 71, No. 2, pp 242-252.
- Vineet Shibe and Vikas Chawla (2019) Erosion Studies of D-Gun-Sprayed WC-12%Co, Cr3C2-25%NiCr and Al2O3-13%TiO2 Coatings on ASTM A36 Steel Journal of Thermal Spray Technology (ISSN: 1059-9630 (Print) 1544-1016 (Online)), Impact Factor 2.129 (SCI), Vol. 28, No. 8, pp 2015-2028.
- Subhash Chander and Vikas Chawla (2019) Characterization and Industrial Performance Evaluation of Duplex-Treated AISI H21 Die Steel during Hot Forging Process, Materials Performance and Characterization (ASTM;E-ISSN: 2165-3992; ISSN: 2379-1365), Scopus Indexed; 2019, Vol. 8: No 1, pp 1-11 (available online at [www.astm.org](http://www.astm.org)).
- Gurmail Singh, Niraj Bala and Vikas Chawla (2019) High temperature oxidation behaviour and characterization of NiCrAlY-B4C coatings deposited by HVOF, Materials Research Express (IOP Publishing Ltd.) (issn.2053-1591 / Online ISSN: 2053-1591), Impact Factor 1.449 (SCI), 2019, Vol. 6, No. 8, pp 242-252.
- Vikas Chawla, Buta S. Sidhu, Amita Rani and Amit Handa (2019) High-temperature corrosion behavior of somepost-plasma-spraying-gas-nitrided metallic coatings on a Fe-based super alloy Materials and Corrosion (IOP Publishing Ltd.) (Online ISSN: 1521-4176), Impact Factor 1.458 (SCI), 2019, DOI:10.1002/maco.201910971, 2019, Vol. 70, No. 12, pp. 2157-2178.
- V Panwar, NK Grover and Vikas Chawla (2019) Wear behaviour of plasma sprayed

WC– 12% Co and Al 2 O 3– 13% TiO 2 coatings on ASTM A36 steel used for ID fans in coal fired power plants Materials Research Express (IOP Publishing Ltd.) (issn.2053-1591 / Online ISSN: 2053-1591), Impact Factor 1.449 (SCI), 2019, Vol. 6, No. 10, pp 1065b6.

**Dr. Sunil Kumar Mahla**

- Pali Rosha, Hussameldin Ibrahim, Anil Kumar Nanda, Saroj Kumar Mohapatra, Sunil Kumar Mahla, Amit Dhir (2020) Effect of hydrogen-enriched biogas induction on combustion, performance and emission characteristics of dual fuel compression ignition engine, Asia-Pacific Journal of Chemical Engineering (Published Online) (Wiley, Impact factor-1.396) DOI: 10.1002/apj.2435
- Mandeep Singh, Deepak Kumar Singh, Surjit Kumar Gandhi, Amit Sarin, Sanjeev Saini, Sunil Kumar Mahla, Ajay Gupta, Sarbjot Singh Sandhu (2019). Effect of metal contaminants and antioxidants on the oxidation stability of argemone mexicana biodiesel: Experimental and statistical study, Waste & Biomass Valorisation (Published Online) (Springer, Impact factor-2.358) DOI 10.1007/s12649-019-00886-5
- Geetesh Goga, Bhupendra Singh Chauhan, Sunil Kumar Mahla\*, Amit Dhir, Haeng Muk Cho (2019) Effect of varying biogas mass flow rate on performance and emission characteristics of a diesel engine fuelled with blends of n-butanol and diesel, Journal of Thermal Analysis and Calorimetry (Published Online) (Springer, Impact factor-2.471) DOI: 10.1007/s10973-019-09055-1
- Akshey Marwaha, Pali Rosha, Saroj Kumar Mohapatra, Sunil Kumar Mahla, Amit Dhir (2019) Biodiesel production using Terminalia bellerica using eggshell-based green catalyst: An optimization study with response surface methodology, Energy Reports 5;1580-1588 (Elsevier, SCIE Impact factor-3.830) DOI: 10.1016/j.egy.2019.10.022
- Geetesh Goga, Bhupendra Singh Chauhan, Sunil Kumar Mahla, Haeng Muk Cho (2019) Performance and emission characteristics of diesel engine fuelled with rice bran biodiesel and n-butanol, Energy Reports 5:78-83 (Elsevier-SCIE Impact Factor-3.830) DOI: 10.1016/j.egy.2018.12.002
- Sunil Kumar Mahla, Kulwinder Singh Parmar, Jujhar Singh, Amit Dhir, Sarbjot Singh Sandhu, Bhupendra Singh Chauhan (2019) Trend and time series analysis by ARIMA model to predict the emissions and performance characteristics of biogas fuelled compression ignition engine, Energy Sources, Part A: Recovery, Utilization, and Environmental Effects, (Published Online) (Taylor & Francis, Impact Factor-

0.894) DOI: 10.1080/15567036.2019.1670286

- Geetesh Goga, Bhupendra Singh Chauhan, Sunil Kumar Mahla, Amit Dhir, Heang Muk Cho (2019) Combined impact of varying biogas mass flow rate and rice bran methyl esters blended with diesel on a dual fuel engine, *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*, (Published Online) (Taylor & Francis, Impact Factor-0.894) DOI:10.1080/15567036.2019.1623948
- Pali Rosha, Saroj Kumar Mohapatra, Sunil Kumar Mahla, Amit Dhir, Bhupendra Singh Chauhan, Heang Muk Cho (2019) Effect of compression ratio on combustion, performance, and emission characteristics of compression ignition engine fuelled with palm (B20) biodiesel blend, *Energy* 178;676-684 (Elsevier, Impact factor-5.537) DOI:10.1016/j.energy.2019.04.185
- Pali Rosha, Saroj Kumar Mohapatra, Sunil Kumar Mahla, Amit Dhir (2019) Catalytic reforming of synthetic biogas for hydrogen enrichment over Ni supported on ZnO-CeO<sub>2</sub> mixed catalyst, *Biomass and Bioenergy* 125:70-78 (Elsevier, Impact Factor-3.537) DOI:10.1016/j.biombioe.2019.04.013
- Rattanvir Singh, Amit Dhir, Saroj Kumar Mohapatra, Sunil Kumar Mahla (2019) Dry reforming of methane using various catalysts in the process: Review, *Biomass Conversion & Bio-refinery* (Published Online) (Springer, Impact factor-2.326) DOI:10.1007/s13399-019-00417-1
- Pali Rosha, Saroj Kumar Mohapatra, Sunil Kumar Mahla, Amit Dhir (2019) Hydrogen enrichment of biogas via dry and auto thermal-dry reforming with pure nickel (Ni) nanoparticle, *Energy* 172:733-739 (Elsevier, Impact factor-5.537) DOI:10.1016/j.energy.2019.02.006
- Jatinder Singla, Sunil Kumar Mahla, Neeru Singla and Geetesh Goga (2019) Investigations on Performance and Emission Characteristics of Diesel Engine Fuelled with Biogas and ethanol-Biodiesel-Diesel Blend, *International Journal on Emerging Technologies* 10(3):141-147 (Scopus Indexed Journal)
- Jatinder Singla, Sunil Kumar Mahla, Geetesh Goga and Neeru Singla (2019) Emissions Characteristics of Biogas-Diesel Fuel Blends in Compression Ignition Engine, *International Journal on Emerging Technologies* 10(2):422-426 (Scopus Indexed Journal)

#### **Dr. Amit Handa Assistant Professor (ME)**

- Amit Handa & Vikas Chawla, (2020) "Investigation of mechanical properties and hot corrosion behavior of friction welded AISI 304 and AISI 1021 steels", *Sadhana-Academy Proceedings*, <https://doi.org/10.1007/s12046-020-01369-3>. (Springer, SCIE, IF 0.769)
- Santosh Kumar, Manoj Kumar & Amit Handa, (2019) "High temperature oxidation and erosion-corrosion behavior of wire arc sprayed Ni-Cr coating on boiler steel", *Material Research Express*, Vol. 6 (12), 125533. doi.org/10.1088/2053-1591/ab5fae. (IOP, SCIE, IF 1.449)
- Sanjay Sharma, Amit Handa, Sahib Sartaj Singh & Deepak Verma, (2019) "Synthesis of novel hybrid nano composites of AZ31Mg-Graphene-MWCNT by multi-pass friction stir processing and evaluation of mechanical properties", *Material Research Express*, Vol. 6 (12), 126531. doi.org/10.1088/2053-1591/ab54da. (IOP, SCIE, IF 1.449)
- Sanjay Sharma, Amit Handa, Sahib Sartaj Singh & Deepak Verma, (2019) "Influence of tool rotation speeds on mechanical and morphological properties of friction stir processed nano hybrid composite of MWCNT-Graphene-AZ31 magnesium", *Journal of Magnesium and Alloys*, Vol. 7 (3), pp. 487-500. (Elsevier,

SCIE, IF 4.523)

- Vikas Chawla, Buta Singh Sidhu, Amita Rani & Amit Handa, (2019) "High-temperature corrosion behavior of some post-plasma-spraying-gas-nitrided metallic coatings on Fe-based superalloys", *Materials and Corrosion*, Vol. 70 (12), pp. 2157-2178. (Wiley, SCIE, IF 1.458)
- Santosh Kumar, Manoj Kumar & Amit Handa, (2019) "Comparative study of high temperature oxidation behavior and mechanical properties of wire arc sprayed Ni – Cr and Ni – Al coatings", *Engineering Failure Analysis*, Vol. 106, 104173. (Elsevier, SCIE, IF 2.203)

#### **Department of Applied Sciences**

##### **Dr. Kulwinder Singh, Asst. Prof.**

- Sarbjit Singh, Kulwinder Singh Parmar, Jatinder Kumar, Sidhu Jitendra Singh Makkhan (2020). Development of new hybrid model of discrete wavelet decomposition and autoregressive integrated moving average (ARIMA) models in application to one month forecast the casualties cases of COVID-19. *Chaos, Solitons & Fractals*, 135. (Elsevier) (Impact Factor 3.064)
- Hossien Riahi-Madvar, Majid Dehghani, Kulwinder Singh Parmar, Narjes Nabipour, Shahaboddin Shamshirband (2020). Improvements in the Explicit Estimation of Pollutant Dispersion Coefficient in Rivers by Subset Selection of Maximum Dissimilarity Hybridized With ANFIS-Firefly Algorithm (FFA). *IEEE Access (IEEE)* (In Press) (Impact Factor 4.098)
- Sidhu Jitendra Singh Makkhan, Kulwinder Singh Parmar, Sachin Kaushal & Kirti Soni (2020). Correlation and time-series analysis of black carbon in the coal mine regions of India: a case study. *Modeling Earth Systems and Environment* (Springer) (In Press)
- Kulwinder Singh Parmar, Sidhu Jitendra Singh Makkhan, Sachin Kaushal (2019). Neuro-fuzzy-wavelet hybrid approach to estimate the future trends of river water quality. *Neural Computing and Applications* 31(12) (Springer) (Impact Factor 4.664).
- Priya Sachin Kaushal, Kulwinder Parmar (2019). Wave propagation in generalized thermodiffusion elastic medium with Impedence boundary condition. *Iranian Journal of Mathematical Sciences and Informatics* (Accepted in Press) (Emerging Sources Citation Index, Web of Science).
- Sunil Kumar Mahla, Kulwinder Singh Parmar, Jujhar Singh, Amit Dhir, Sarbjot Singh Sandhu, Bhupendra Singh Chauhan (2019). Trend and time series analysis by ARIMA model to predict the emissions and performance characteristics of biogas fueled compression ignition engine. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects*. (Accepted in Press) (Taylor & Francis) (Impact Factor 0.896)
- M. Rana, A. Malik, A. Kumar, KS Parmar, O. Kisi (2019). Pan evaporation modeling by three different neuro-fuzzy intelligent systems using climatic inputs. *Arabian Journal of Geosciences* (Accepted in Press) (Springer) (Impact Factor 1.309)

#### **Department of Civil Engineering**

##### **Dr. Rinku Walia, Asst. Prof.**

- Post-treatment of effluent from UASB reactor by surface aerator in the journal *International Journal of Environmental Science and Technology* ISSN 1735-1472 springer publication April 2019
- Cascade aeration: a promising post treatment of effluent from UASB reactor *Eco. Env. & Cons.* 26 (1) : 2020; pp. (199-205) EM International ISSN 0971-765X

## Activities Organized by the Faculty

### Training Programmes

Name of Department	Title of course	Dates	Name of organizer
Department of Food Science Technology	One day Training for Trainer for Basic catering of FSSAI in collaboration with FSATO and FoSTaC,	12.03 2019	Dr. Barinderjit Singh Food Safety Standard Authority of India DFST & FSSAIC, FSATO
	Two days training on HPLC & GC Instrument	15.04.2019 - 16.04.2019	Dr. Barinderjit Singh , AGLIET
Department of Civil Engineering	Applications of Geospatial Technologies in Architecture and Civil Engineering	16.12.2019 - 20.12.2019	Ar. Md Fuzail and Dr. Mukta Sharma Jointly By Civil and Architecture Department of Main campus and Campus-II
IKGPTU, Hoshiarpur Campus	Engineering Survey Camp for the B.Tech 3rd year students of Civil Engineering Department	24.07.2019 - 29.07. 2019	Department of Civil Engineering, IKGPTU Hoshiarpur

### Symposia

Name of Department	Title of course	Dates	Name of organizer
Department of Food Science Technology	One day Symposium on "Food Safety Requirements for Food Industry"	01.11. 2018	Dr. Barinderjit Singh DFST, IKGPTU

### FDP's

Name of Department	Title of course	Dates	Name of organizer
Department of Physical Sciences	Faculty Development Programme "Recent Advancements in the Nanostructured Materials"	13.01.2020-17.01. 2020	Department of Physical Sciences, IKGPTU Main Campus, Kapurthala and Department of Applied Sciences, NITTR Chandigarh
Department of Electronics & Communication Engineering	Modern Tools and Techniques for Teachers and Researchers	18.11.2019-22.11.2019	Dr Satvir Singh Department of ECE
Department of Electronics & Communication Engineering	Internet of Things (IoT)	02.12.2019-06.12.2019	Dr Rakesh Goyal Department of ECE
Department of Civil Engineering	Applications of Geospatial Technologies in Architecture and Civil Engineering	16.12.2019-20.12.2019	Ar. Md Fuzail and Dr. Mukta Sharma Jointly By Civil and Architecture Department of Main campus and Campus-II
Department of Electrical Engineering	Recent Advancements in Power and Energy Systems	09.12.2019-13.12.2019	Prof. (Dr) Y S Brar Dr Naveen Kumar Sharma
Department of Mechanical Engineering	Surface Engineering and Materials Characterization	09.12.2019-13.12.2019	Department of Mechanical Engineering

### Workshop

Name of Department	Title of course	Dates	Name of organizer
Department of Management	Capital Market Awareness Program under BSE	15.11.2019	Dr. Kapil Gupta
Department of Management	Traffic Rules	17.09. 2019	Dr. Rajpreet Kaur
Department of Management	Drug De-Addiction	18.10.2019	Dr. Rajpreet Kaur
Department of Management	Seminar on Financial Crimes due to Digital Transactions	31.08.2018	Dr. Harmeem Soch
Department of Computer Science Engineering	Two-day workshop on Data Science using Python	09.03.2018-10.03.2018	Department of CSE
Department of Computer Science Engineering	Two-day workshop on Linux Administration	10.06.2019-11.06.2019	Department of CSE
Department of Computer Science Engineering	Three-day workshop on MATLAB tools	3rd-5th September, 2019	Department of CSE
Department of Computer Science Engineering	Two-day workshop on Aneka Cloud Computing Tool	14.11.2019-15.11.2019	Department of CSE
Department of Computer Science Engineering	Crowdsource by Google	23.01.2020	Anshu Bhasin, Dept. of CSE
Department of Computer Science Engineering	ML with tesor flow- 2-day workshop	24.09. 2018	Anshu Bhasin, Dept. of CSE
Department of Mathematical Sciences	Teacher Enrichment Workshop on Computational Methods for Solving Differential Equation	25.12..2019-31.12.2019	Department of Mathematical Sciences
Department of Journalism & Mass Communication	One-day workshop on News Writing Skills for Print Media expert by Mr. Rajeev Bhaskar.	01.11.2019	Mr. Rajeev Bhaskar.
IKGPTU, Hoshiarpur Campus	workshop on topic "Advance Engine Technologies to meet future emissions norms (BS6)"	26.09.2019	Department of Mechanical Engineering
IKGPTU, Hoshiarpur Campus	One day workshop on "CAD/ CAM Technologies"	19.09.2019	Department of Mechanical Engineering
IKGPTU, Hoshiarpur Campus	Organized Undergraduate Presentation Skills Contest (UPSC-2019) under aegis of SOMME and IIT Ropar	21.10.2019	Department of Mechanical Engineering
IKGPTU, Hoshiarpur Campus	A workshop on "CLOUD COMPUTING" for the students of Computer Science Engineering was organised for enhancing their knowledge.	20.09.2019	Department of CSE
IKGPTU, Hoshiarpur Campus	NSS committee organized Women self defence training workshop on	27.09.2019	Department of Mechanical Engineering

Name of Department	Title of course	Dates	Name of organizer
IKGPTU, Hoshiarpur Campus	Organized series of Entrepreneurship Awareness Camps (EACs) in collaboration with The Indus Entrepreneurs (TiE) to promote entrepreneurship in students	04.09. 2019	Department of Mechanical Engineering

### Seminar's/Webinar's

Name of Department	Title of course	Dates	Name of organizer
Department of Management	Webinar on Investors Awareness Program	08.03.2020	Dr. Kapil Gupta
Department of Management	Seminar on Current and Future Challenges: Global Financial Crisis	25.02.2019	Dr. Harmeen Soch
Department of Journalism & Mass Communication	One-day seminar on "How to stay Fit and Healthy" Ms. Priyanka a renowned counsellor from Health Visit team, Jalandhar.	30.09.2019	Ms. Priyanka a renowned counsellor from Health Visit team, Jalandhar.
IKGPTU, Hoshiarpur Campus	Seminar on "Latest Technologies for B.Tech final year students	08.03.2019	Dr.Vikas Chawla, IKGPTU Hoshiarpur

### Expert Talks

Name of Department	Title of course	Dates	Name of organizer
Department of Computer Science Engineering	Expert talk on Recent Technologies	04.09. 2019	Department of CSE
Department of Computer Science Engineering	Expert talk on Cloud Computing	30.04.2019	Department of CSE
Department of Journalism & Mass Communication	Expert talk on the topic "Perspectives of Electronic Media" by Mr. Munish Devgan, TV Producer, Aaj Tak	30.07.2019	Dr. Ranbir Singh Department of JMC
Department of Physical Sciences	Expert talk on on Material Studio software by Dr.Ritwik Kavathekar Scientist, Dassault systems, Bangalore	27.02.2020	Dr.Hitesh Sharma Department of Physical Sciences
Department of Physical Sciences	Expert lecture by Dr. Inderpreet Kaur, Senior Scientist from CSIO, Chandigarh on Nano-Physics	2018	Dr. Amit Sarin Department of Physical Sciences
Department of Physical Sciences	Expert Talk on "Study of exotic nuclei and their applications to nuclear astrophysics" by Dr. Shubhchintak, Texas University, USA.	2018	Dr. Varinderjit Singh Department of Physical Sciences
IKGPTU, Hoshiarpur Campus	An expert talk on Interview skills and confidence	05.03.2019	Department of Mechanical Engineering
IKGPTU, Hoshiarpur Campus	An expert lecture on Latest Trends and Technologies	06.03.2019	Department of CSE

## AICTE Sponsored Universal Human Values FDPs

### Three Days Residential Courses

Date of Workshop/FDP	Venue	District/City	State	No. of Participants Attended	
18.01.19	20.02.19	IIT Mandi	Mandi	Himachal Pradesh	35
24.05.19	26.05.19	UIIT, HPU Shimla	Shimla	Himachal Pradesh	46
19.09.19	21.09.19	Khalsa College of Engineering & Technology, Amritsar (Punjab)	Amritsar	Punjab	46
19.09.19	21.09.19	MMDU, Mullana	Ambala	Haryana	51
21.10.19	23.10.19	Delhi Technological University	Delhi	Delhi	46
15.11.19	17.11.19	SLIET, Longowal	Sangrur	Punjab	53
21.11.19	23.11.19	Eternal University, Baru Sahib	Sirmour	Himachal Pradesh	61
22.02.20	24.02.20	ISF Moga	Moga	Punjab	55
28.02.20	01.03.20	MMDU, Mullana	Amabala	Haryana	62
05.03.20	07.03.20	SMVDU, Katra	Jammu	Jammu	63

### Seven Days' Residential Courses

Date of Workshop/FDP	Venue	District/City	State	No. of Participants Attended	
24.05.19	30.05.19	MDU Rohtak	Rohtak	Haryana	56
04.06.19	10.06.19	Panjab University, Chandigarh	Chandigarh	Chandigarh	71
05.06.19	11.06.19	UIET, Kurukshetra University	Kurukshetra	Haryana	63
14.06.19	20.06.19	IKG PTU Main Campus, Kapurthala	Kapurthala	Punjab	52
22.06.19	28.06.19	NIT Hamirpur	Hamirpur	Himachal Pradesh	60
25.06.19	01.07.19	IKG PTU Main Campus, Kapurthala	Kapurthala	Punjab	57
25.06.19	01.07.19	DCRUST, Murthal	Sonipat	Haryana	65
30.06.19	06.07.19	IIT Mandi	Mandi	Himachal Pradesh	67
04.07.19	10.07.19	IIT Ropar	Ropar	Punjab	61
02.07.19	08.07.19	IKG PTU Main Campus, Kapurthala	Kapurthala	Punjab	92

Date of Workshop/FDP	Venue	District/City	State	No. of Participants Attended	
17.12.19	23.12.19	MMDU, Mullana	Ambala	Haryana	52
25.12.19	31.12.19	IIT Mandi	Mandi	Himachal Pradesh	26
25.12.19	31.12.19	IKG PTU Main Campus, Kapurthala	Kapurthala	Punjab	53
03.01.20	09.01.20	IKG PTU Main Campus, Kapurthala	Kapurthala	Punjab	82
04.01.20	10.01.20	SLIET, Longowal	Sangrur	Punjab	53
05.01.20	11.01.20	DCRUST, Murthal	Sonapat	Haryana	55
17.01.20	23.01.20	Panjab University, Chandigarh	Chandigarh	Chandigarh	55

### Five Days' Online Workshop on "Incorporating Universal Human Values in Higher Education"

Date of Workshop/FDP	Region	Host Universities	No. of Participants Attended	
19.04.20	23.04.20	NRO and NWRO	UTU-Dehradun and HPTU-Hamirpur	310
26.04.20	30.04.20	CRO	RGPV-Bhopal, CSVTU-Bhilai and GTU-Ahmedabad	315
03.05.20	07.05.20	NWRO	IKGPTU- Kapurthala and RTU-Kota	306
13.05.20	17.05.20	WRO	DBATU-Lonere, MU- Mumbai (Maharashtra)	298
26.05.20	30.05.20	NRO and NWRO	AKTU-Lucknow, IKG PTU- Kapurthala and RTU- Kota	125

### Remarkable Reforms in Various Departments

Branch	Module	Details
University	E-leave Management System for University Staff	<ul style="list-style-type: none"> <li>Online Leave and submission to Reporting officers.</li> <li>Approval/forwarding to Competent authority for approval.</li> <li>Auto generation of salary Statement.</li> </ul>
University	E-file System for University affiliated institutes.	<ul style="list-style-type: none"> <li>Dak online of Institute.</li> <li>University Department can receive/forward / close/reply of the Dak and attach the File with reply.</li> <li>Tracking record of file by Institutes/ University.</li> <li>It save time and traffic of persons related to Institutes.</li> </ul>
Academics	Preparation of Study Materials and Question Bank	<ul style="list-style-type: none"> <li>Allotment of subject(s) to Faculty by Institutes</li> <li>Uploading of Syllabus by Faculty Members (Unit, Chapter and Topic wise)</li> <li>Uploading of Study materials against each topic in pdf and Video link format by Faculty Members.</li> <li>Uploading of Questions (MCQs and subjective type as per Study Scheme) against each topic by Faculty Members.</li> </ul>
Academics	Availability of Study Materials in Students login	<ul style="list-style-type: none"> <li>The study Materials provided in Students login.</li> <li>Student can read study Materials uploaded by Faculty Members of other Institutes.</li> <li>Feedback by students (like and Unlike)</li> </ul>
Examination (Confidential)	Setting of Online Paper Setting	<ul style="list-style-type: none"> <li>Creation of login for BOSs, COE and all Paper setter from University/ Out of University System</li> <li>Uploading of Panel for Paper setting by Respective BOS.</li> <li>Appointment of Paper Setter by COE.</li> <li>Acceptance of appointments, acknowledgement, personnel information and terms and conditions by paper setters.</li> <li>Creation of Question Paper by Paper setter</li> </ul>
Examination (Conduct)	Online Examination Module	<p>Online Conduct of Examination through Institutes:</p> <p><b>A. Security Measures in Online Test</b></p> <ul style="list-style-type: none"> <li>All Question Papers and their respective options are encrypted mode</li> <li>System capture screenshot of the system to check the invalid activity by user</li> <li>Audio Recording option to check noise or other illegal activity around the user</li> <li>IP Binding with Test and track the IP Address of User.</li> <li>Student Photograph and identity proof before start of test to verify that the user who started the test remain same throughout the test.</li> <li>3 times warning for tab shift and closer of test automatically.</li> </ul> <p><b>B. Salient proctoring features in the login of invigilator like:</b></p> <ul style="list-style-type: none"> <li>Real-time screenshot check to proctor the user by invigilator.</li> <li>Test pause option if found any invalid activity by user.</li> </ul>

		<ul style="list-style-type: none"> <li>• Time extension option to invigilator in case of power failure or any other failure</li> <li>• Restart the test option in case of user finish the test mistakenly.</li> <li>• Complete Log of task performed by user.</li> </ul>
<b>Examination (Conduct)</b>	Conduct of Examination (Online Filling of Examination form and Fee directly by Students)	<ul style="list-style-type: none"> <li>• Filling of Examination from via login of Students.</li> <li>• Online submission of Examination/ reevaluation fee directly by Students.</li> <li>• Online clearance of No-Dues of students by Institutes.</li> <li>• Issuances of Admit cards in the login of Students.</li> <li>• Conduct of practical examination online from home using digital platforms to avoid physical contacts due to Corona.</li> <li>• Uploading of signed Awards list through login id of Faculty member(s) to avoid physical contacts due to Corona.</li> </ul>
<b>Examination (Result)</b>	Declaration of Results	<ul style="list-style-type: none"> <li>• Department of Examination declared the results of 8700 students who completed training in their last semester</li> </ul>
<b>Examination/ SFC</b>	Online Documents Delivery System	<ul style="list-style-type: none"> <li>• Student(s) can apply online from any location.</li> <li>• SFC to Check the documents and forwarded to Examination Department.</li> <li>• Examination Department to verify the documents.</li> <li>• The document electronically signed and send to stakeholder</li> <li>• Approximately 10,000 pages per day were used to print the queries, but now with the new software, queries are sent through the electronic document transmission. This also has the added advantage of being eco-friendly.</li> <li>• With this software, no postage is required and this has also saved our courier charges.</li> <li>• MOU signed with WES for electronic Transmission of Documents and 7500 documents processed.</li> <li>• Approximately 10000 documents process online during lockdown.</li> </ul>

## PLANNING & EXTERNAL PROGRAMS

<p><b>MoU Signed between IKGPTU with Foreign Universities</b></p> <p><b>a. Nottingham Trent University, UK</b> Progression agreement for M.Sc. and MBA programmes 15.07.2019 to 14.07.2022</p> <p><b>b. Northern Illinois University, Dekalb, Illinois, USA</b> MOU 12.06.2019 to 11.06.2022</p> <p><b>c. University of the West of England, Bristol, UK</b> Letter of Recognition(LOR) in Bachelor Business Administration (BBA). 26.09.2019 to 25.09.2021</p> <p><b>d. Asia Pacific University of Technology &amp; Innovation (APU) Malaysia</b> MoU 11.06.2019 to 10.06.2024</p> <p><b>e. Woosong University, South Korea</b> MOU 22.10.2019 to 21.10.2024</p> <p><b>f. University of Nottingham, UK</b> MOU 30.09.2019 to 29.09.2024</p>	<p><b>The following students had been sent to the NTU, UK under the student exchange Programme for short course (Design thinking).</b></p> <p>Prabhdeep Saini Harjot Singh Rajni Bala Gagandeep Singh Pawandeep Kaur</p> <p><b>Establishment of National Test Centre of National Testing Agency at IKGPTU</b> <b>Name of IKGPTU listed on the website Indian Council for Cultural Relations (ICCR).</b> <b>IQAC- Workshop Conducted in the month of July 2019.</b></p>
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## AMRITSAR CAMPUS

### Seminar's/Webinar's

Name of Department	Title of course	Dates	Name of organizer
IKGPTU, Amritsar campus	Energy Conservation, Renewable Energy, Efficient use of Energy Resources and Environment	23.01.2020	IKGPTU Amritsar Campus

### Workshop

Name of Department	Title of course	Dates	Name of organizer
IKGPTU, Amritsar campus	Entrepreneurship Awareness Camp (EAC) in association with IKGPTU Kapurthala and TiE Chandigarh	27.08.2019	IKGPTU Amritsar Campus

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**PUBLIC RELATIONS OFFICE, I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY JALANDHAR, KAPURTHALA**

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## पीटीयू ने डॉक्टरों की सुरक्षा के लिए बनाया फेस शील्ड

राहत | फॉसिड-19 से लोगों को बचाने में नर्सों के महत्वपूर्ण योगदान को ध्यान में रखते हुए पीटीयू ने डॉक्टरों की सुरक्षा के लिए फेस शील्ड बनाया है।



डॉ. अजय कुमार शर्मा ने पीटीयू के डॉक्टरों की सुरक्षा के लिए फेस शील्ड का शुभारंभ किया।

डॉ. अजय कुमार शर्मा ने पीटीयू के डॉक्टरों की सुरक्षा के लिए फेस शील्ड का शुभारंभ किया।

## पीटीयू के डिस्टेंस एजुकेशन कोर्स को यूजीसी की मान्यता

गुजरात राज्य सरकार, कांस्टेबल: अहमद नगरपालिका विकास ट्रस्ट के द्वारा पीटीयू के डिस्टेंस एजुकेशन कोर्स को यूजीसी की मान्यता दी गई है।



डॉ. अजय कुमार शर्मा ने यूजीसी की मान्यता के शुभारंभ के अवसर पर कहा कि यह एक बड़ा उपलब्धि है।

## IKGPTU Student Selected for Study at Canadian University

गुजरात राजस्थान तकनीक विश्वविद्यालय (IKGPTU) के छात्रों को कनाडा के एक विश्वविद्यालय में अध्ययन के लिए चुना गया है।



डॉ. अजय कुमार शर्मा ने छात्रों को बधाई दी।

## Involvement of Industry Experts is must for the Development of faculty: Prof. Ajay Kumar Sharma

गुजरात राजस्थान तकनीक विश्वविद्यालय के प्रमुख प्रोफेसर डॉ. अजय कुमार शर्मा ने कहा कि उद्योग विशेषज्ञों का सहभागिता शिक्षकों के विकास के लिए आवश्यक है।



## आई.के.जी.पी.टी.यू. में 52वां अकादमिक कार्डसिल की बैठक सम्पन्न, युनिवर्सिटी के 24वें स्थापना दिवस पर कृतज्ञापन में विद्या सम्बन्ध

शिक्षाविद साल की शुरुआत अकादमिक कार्य कुशलता को बढ़ावा देने से करें: डॉ. अजय शर्मा



डॉ. अजय शर्मा ने शिक्षकों को प्रोत्साहित किया कि वे अपने छात्रों को बेहतर शिक्षा दें।

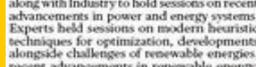
## I.K. GUJRAL Punjab Technical University's student has been selected to study further at Canadian University

गुजरात राजस्थान तकनीक विश्वविद्यालय के छात्रों को कनाडा के एक विश्वविद्यालय में अध्ययन के लिए चुना गया है।



## INVOLVEMENT OF Industry Experts is must for the Development of faculty: Prof. Ajay Kumar Sharma

गुजरात राजस्थान तकनीक विश्वविद्यालय के प्रमुख प्रोफेसर डॉ. अजय कुमार शर्मा ने कहा कि उद्योग विशेषज्ञों का सहभागिता शिक्षकों के विकास के लिए आवश्यक है।



## कोविड-19 जंग में आई.के.जी.पी.टी.यू. का मुख्यमंत्री राहत कोष में 22.65 लाख से अधिक का योगदान

गुजरात राजस्थान तकनीक विश्वविद्यालय के छात्रों और शिक्षकों ने कोविड-19 से निपटारे में 22.65 लाख से अधिक का योगदान दिया है।



## आई.के.जी.पी.टी.यू. में इंटर जोनल यूथ फैस्टिवल आज से

20 नवंबर तक चलने वाला यूथ फैस्टिवल, युनिवर्सिटी के मुझे कालेज लेने का अवसर देगा।



## 45 विद्यार्थी नौकरी के लिए चयनित

पीटीयू के मुख्य कैंपस में दो दिवसीय रोजगार मेले में 350 विद्यार्थी हुए शामिल



डॉ. अजय शर्मा ने छात्रों को प्रोत्साहित किया कि वे अपने कौशल को बेहतर बनाएं।

## Govt honour for 383 on Parkash Utsav

गुजरात राजस्थान तकनीक विश्वविद्यालय के 383 शिक्षकों को सरकारी पुरस्कार से सम्मानित किया गया है।



## आई.के.जी.पी.टी.यू. शुरू करेगा एफ.डी.पी. पर वार्षिक पी.जी. डिप्लोमा कोर्स: डॉ. अजय शर्मा

गुजरात राजस्थान तकनीक विश्वविद्यालय शुरू करेगा एफ.डी.पी. पर वार्षिक पी.जी. डिप्लोमा कोर्स।



## गुजरात जी का प्रभाव न केवल देश में, बल्कि पूरे विश्व में था: सतनाम माणक

आई.के.जी.पी.टी.यू. के प्रभाव को केवल देश में ही नहीं, बल्कि पूरे विश्व में महसूस किया जा रहा है।



## Govt honour for 383 on Parkash Utsav

गुजरात राजस्थान तकनीक विश्वविद्यालय के 383 शिक्षकों को सरकारी पुरस्कार से सम्मानित किया गया है।



## युवाओं को बेहतर रोजगार के अवसर पैदा करने के उद्देश्य से आई.के.जी.पी.टी.यू. ने की पहल

युनिवर्सिटी ने ब्यूटी एंड वेलनेस सेक्टर स्किल काउंसिल के साथ एक करार पर किया हस्ताक्षर



## गुजरात जी का प्रभाव न केवल देश में, बल्कि पूरे विश्व में था: सतनाम माणक

आई.के.जी.पी.टी.यू. के प्रभाव को केवल देश में ही नहीं, बल्कि पूरे विश्व में महसूस किया जा रहा है।



# CAMPUS MIRROR



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