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INFORMATION BROCHURE

SESSION 2020-21

For Admission to **B.Tech**

(C.S.E, Mech. & Civil Engineering) and **BCA**

at

I.K.GUJRAL PUNJAB TECHNICAL UNIVERSITY
HOSHIARPUR CAMPUS

Inside:

PT. JAGAT RAM GOVT. POLYTECHNIC COLLEGE,
JALANDHAR ROAD, HOSHIARPUR



I.K. GUJRAL PUNJAB TECHNICAL UNIVERSITY (A State Govt. University)

From VC's Desk



I feel truly privileged to have joined the IKG PTU University family at a time when scenario of technical education is changing fast. In the recent years, the University has to its credit got prestigious national as well as international recognitions. In the long list of achievements, the recent attainment of 96th rank in National Institutional Ranking Framework (NIRF) is the latest feather in the University's cap. The achievement as a whole is the culmination of the consistent and tireless dedications of faculty, students and staff of the University spreading over 22 years.

IKG PTU Campus Hoshiarpur is situated in the heart of city offering Engineering and BCA courses. There are lot of activities happenings in this campus which deserve to be highlighted and shared with the society. I felt that this bi-annual Newsletter would provide a forum to acknowledge the achievements. I take this opportunity to appeal to all stakeholders including students, alumni, faculty, non-teaching staff, recruiters, parents and the general public to forward their suggestions and views in enabling the Campus to fulfil its mandate through research, innovation and capacity building of human resource capable of making meaningful contributions to the process of nation building.

I congratulate editorial team for their initiative and wish them success!

With best wishes,

Prof. (Dr) Ajay Sharma

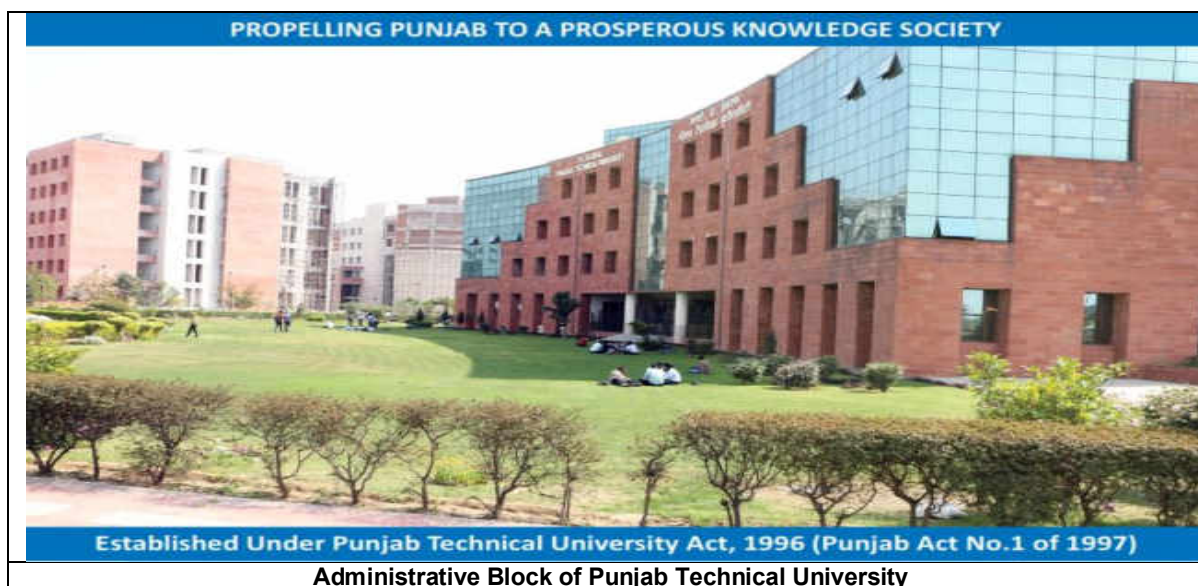
UNIVERSITY'S INTERNATIONAL ACADEMIC COLLABORATIONS



From Director's Desk

They Say “Creativity is essence of life and it should reflect in whatever we do. My sincere blessings to all the students, faculty and staff of IKG PTU Hoshiarpur Campus for their excellent endeavours in academics and extracurricular activities. I extend my heartiest felicitations to the editorial board, students and staff for having launched our first newsletter. This newsletter would impart a platform to have glimpse of academic and cultural affairs of the institution. I firmly hope that the institute would continue its endeavours to prune our budding technocrats and managers through its vision to develop dynamic professionals to lead the 21st century industrial and economical growth at the global level. I wish the very best of luck for the future efforts.

Prof. (Dr) Vikas Chawla



1. Brief about Punjab Technical University (I.K.G PTU)

I.K.G. PTU was established in the year 1997 under The Punjab Technical University Act, 1996 (Punjab Act No. 1 of 1997) to provide for the establishment and incorporation of a University for the advancement of technical education and development thereof in the State of Punjab and for matters connected therewith. In pursuance of this Act, the University started its journey with 09 engineering colleges and few management colleges affiliated to it. At present University have 121 AICTE and 65 UGC institutes affiliated with it.

We at I.K.G.Punjab Technical University are propelled by the vision and wisdom of our leaders and are continuously striving to discharge our duties for the overall improvement of quality of education and to make sure that the courses we offer remain relevant to our society and useful to our students in the globalized work environment.

Though Knowledge and skills are the key factors in increasing the employability and competitive edge of students in the emerging global environment, an environment of economic growth and opportunity is necessary to promote the demand for such trained and professional manpower and the University participating actively in the process of technological growth and development in shaping human resources of the state of Punjab for economic development of the nation.

Features of the University

1. Periodic restructuring and updating of the courses to match international standards in consultation with the help of industrialists / R&D / Academia.
2. School of Excellence with industries partnership.
3. Education with value systems / moral development / overall personality development / social relevance.
4. Emphasis on R&D support to medium and small size industry.
5. Providing opportunities for higher education for rural youth, women and weaker's sections and physically handicapped.
6. Promoting multiskilled development with emphasis on communication skills.
7. Promoting higher education through distance education programme to economically weak section and working youth at very low cost. Presently the university has about 1, 20,000 students in distance education mode and 1,20,000 students on regular roll.
8. Giving exposure of modern technology and management to students through knowledge reservoir lecturer series by eminent Industrialists / Academicians / Scientists.

More details available on website : - www.ptu.ac.in

I.K.Gujral Punjab Technical University, Hoshiarpur Campus***About Us:-***

IKGPTU, Hoshiarpur Campus formerly known as “Punjab Institute of Technology, Hoshiarpur” was established in the year 2013 under the aegis of I.K.Gujral Punjab Technical University, Kapurthala. A land of 22.7 acre was allocated on lease for the establishment of this Institute in the premises of Pt. J.R.Govt. Polytechnic College, Hoshiarpur. This institution is planned with the vision to spread quality education in the region which is vastly covered by the Kandi area. This campus is committed to the cause of excellence in higher education in the field of Engineering, Technology and Management.

The IKGPTU, Hoshiarpur Campus will provide the opportunity to minorities and lower income students who otherwise has the talent but could not afford the expensive education. It will make them familiar with the needs of the modern society and teach them the technical advancements in the field of Engineering and Technology, to make them succeed in the professional environment.

Why IKGPTU Campus Hoshiarpur

- 1) Only State Govt. Technical University Campus in the heart of city.
- 2) Qualified PhD faculty members.
- 3) No capitation fees. Fees strictly as Punjab Govt. No extra hidden charges.
- 4) Well equipped Library and Labs.
- 5) Lush Green Campus spread over 22.7 acres.
- 6) No Fees from eligible SC students under Post Matric Scholarship Scheme.
- 7) Scholarships for Financially Weaker Students, Parent Less/Father Less students, Minority Students as well.
- 8) University Scholarship Scheme for meritorious students.
- 9) Separate Hostel for boys and girls.
- 10) Regular Industrial Visit, Indoor & outdoor activities.
- 11) Joint Campus Placement drives.
- 12) Concessional Bus Pass facility of Punjab Govt. from Residence to Campus.
- 13) Fully Wi-Fi campus.

ADMISSIONS

The admissions will be done for 1st year (after 10+2) for B.Tech in Computer Sc. Engineering, and Mechanical Engineering and in 2yr for Civil Engineering (after Diploma Engg) along with Non-AICTE course BCA (after 10+2) for the session 2020-21 with an intake of 60-60 seats and 3 seats over and above the intake in each stream for Tuition Fee Waiver Scheme, through online centralized counseling conducted by IKGPTU or Direct Admission as applicable from time to time.

Pre- Registration has started visit web site

<http://campuses.ptu.ac.in>

or

visit campus web site at

<http://hoshiarpur.ptu.ac.in>

Admission Dates

01-08-2020 to 31-08-2020

COURSES:-

<u>Name</u>	<u>Intake</u>
1. B.Tech C.S.E (after 10+2) 4yrs.	60 + 3 (Tuition Fee Waiver)
2. B.Tech Civil Engineering (after Diploma) 3yrs	60 + 3 (Tuition Fee Waiver)
3. B.Tech Mech. Engineering (after 10+2) 4yrs.	60 + 3 (Tuition Fee Waiver)
4. B.Tech Mech. Engineering (after Diploma) 3yrs	30
5. BCA after 10+2) 3yrs.	60 + 3 (Tuition Fee Waiver)

ELIGIBILITY CRITERIA

For B.Tech :- 10+2 Non Medical.

Admission shall be made purely on the inter-se merit in qualifying marks through counselling.

For B.Tech. (Lateral Entry) as per Punjab Government notification No. 13/60/2008-1TE2/200 Dated: 18-03-2015.

The minimum qualification for admission to 2nd year (3rd semester) of B. Tech. courses shall be as follows:

(i) All those candidates who have passed Diploma examination from an AICTE approved institution and have obtained at least 45% marks (40% in case of Candidates belonging to reserved category) in appropriate branch of Engineering / Technology shall be eligible to apply.

OR

(ii) All those candidates who have passed B. Sc. Degree from a recognized University as defined by UGC, with at least 45% marks (40% in case of Candidates belonging to reserved category) and passed XII standard with mathematics as a subject shall be eligible to apply

and

Students who have passed B. Sc. Degree from a recognized University as defined by UGC, shall clear the subject of Engineering Graphics / Engineering Drawing and Engineering Mechanics of the first year engineering program along with second year subjects.

Admission shall be made purely on the inter-se merit in qualifying marks through counselling.

For BCA: 10+2 in any stream.

Admission shall be made purely on the inter-se merit in qualifying marks through counselling.

SUBMISSION OF CERTIFICATES

- (a) The original certificates must be produced at the time of admission in the College or to be submitted when called upon to do so by the University.
- (b) Certificates in the format provided must be Self Attested.
- (c) In case of any discontinuity in studies, an Undertaking (called the Gap Certificate) to the effect that the candidate was not involved in any offence or in any illegal activity and that no criminal case is pending against the candidate in any court, should be furnished by the candidate.

INSTRUCTIONS FOR COUNSELLING

COUNSELING SCHEDULE

Admission will be done through Centralized Online Counseling w.e.f. 01-08-2020 to 31-08-2020 conducted by I.K.Gujral Punjab Technical University, Kapurthala in the State of Punjab. Counseling Schedule will be notified on the website of IKGPTU (www.ptu.ac.in), and will also be advertised in the leading news papers.

CERTIFICATES/DOCUMENTS REQUIRED FOR COUNSELLING

The candidates will require to produce the following certificates in original at the time of admission at the allotted college along with prescribed fee for semester:

- Seat Allotment Letter.
- Residence Certificate.
- Matriculation Certificate containing date of birth.
- Detailed Marks Card of the qualifying examination.
- Character Certificate from the Principal of the Institution last attended.
- Reserve Category / Sub-category Certificate from the Competent Authority, if applicable.
- Calculation of aggregate percentage marks secured during Diploma/ B.Sc., to be self attested by the candidates.
- Medical Fitness Certificate as per format.
- Gap Certificate if applicable.
- Student's Bank A/c copy.
- Copy of Adhar Card (Student, Mother & Father).
- Six pass port size Photos.
- Income Declaration certificate (Income Certificate) for SC/ST students under PMSS whose Family Annual Income is less than 2.5 lacs for availing 100% relaxation in course fees. Govt. Employees to attach proof of income from respective Departments.

RESERVATION POLICY

- 85% seats are reserved for the candidates from within the state of Punjab and 15% are open to the candidates from outside the State. As per the University Reservation Policy, the percentage of reservation for each of the categories is as under:-

(i) Scheduled Castes/Scheduled Tribes	25%
(ii) Backward Classes.	5%
(iii) Border Areas/Backward Areas (2% each)	4%
(iv) Sportspersons	2%
(v) Children/Grand Children of Freedom Fighters.	1%
(vi) Disabled Persons:	3%
(a) Blind	1%
(b) Deaf & Dumb	1%
(c) Other Handicapped	1%

(If suitable candidates are available in anyone of these sub-categories, the seats so available will be filled up by the candidates from the other sub categories of disabled candidates and if they are not available in any sub-category then seats shall be filled up from general category candidates).

- (vii) Children/widows of defence personnel killed or disabled to the extent of 50% or more in action, wards of gallantry awardees, children of serving defence personnel/ex-servicemen (**2%**).

The priority to this category is given as under:

- (a) Killed in action
 - (b) Disabled in action & Boarded out of service.
 - (c) Died while in service & death attributable to military service.
 - (d) Disabled in service & Boarded out of service with disability attributable to military service
 - (e) Gallantry award / other award winners both serving / retired.
 - (f) Serving Defence Personnel / Ex-servicemen.
- (viii) Children/widows of Para-military forces personnel, Punjab Police, PAP and Punjab Home Guards killed or disabled in action to the extent of 50% or more; and children of paramilitary forces personnel/ex-paramilitary forces personnel, wards of Punjab Policemen decorated with Gallantry Medals (**2%**).
- (ix) November 1984 riots-affected displaced persons, children of the Army deserters Killed/100% physically disabled, children of the families of persons killed as a result of terrorist violence or by security forces acting in aid of civil authorities and the children of innocent civilians who have sustained 100% disability in terrorist violence or during operation by Security forces acting in aid of civil authorities (**2%**).
- (x) The reservation of T-Sunami affected persons shall be available for the children / grand children of original ex-serviceman settler of Campbell Bay Island or Students suffering from Cancer / AIDS/ Thalassemia as per Punjab Govt. Memo. No.13/2/05-1TE2/1987, Dated : 02/07/2013 (**1%**)
- (xii) Single Girl Child (1%)
- (xiii) One (1) Seat is reserved for Kashmiri Migrants. The admissions and disciplines of seat under this category will be decided by Director, Technical Education & Industrial Training, Punjab, Chandigarh. Candidates desirous of seeking admission as Kashmiri Migrants may contact the office of Director, Technical Education & Industrial Training, Plot No. 1, Sector - 36-A, Chandigarh

FEE STRUCTURE:**B.Tech:-**

S.No	Content	1st Sem. (in Rs)	2nd/ 4th Sem. (In Rs)	3rd/ 5th Sem. (In Rs)	6 th Sem (In Rs)	7th Sem (In Rs)	8th Sem. (In Rs)
1	Tuition Fees	30,000/-	30,000/-	30,000/-	30,000/-	30,000/-	30,000/-
2	Development Fund	4300/-	4300/-	4300/-	4300/-	4300/-	4300/-
3	Student Related Fee	2700/-	2700/-	2700/-	2700/-	2700/-	2700/-
4	Securities(Refundable)	8000/-					
5	Other Fee	1600/-					
6	University Related Fee	1150/-		550/-		550/-	
	Total Fee	47750/-	37,000/-	37550/-	37,000/-	37550/-	37,000/-

BCA Course

S.No.	Content	1st Semester	2nd/4th Semester	3rd /5th Semester	6th Semester
1.	Tuition Fee	15,500.00	15,500.00	15,550.00	15,500.00
2.	Admission Fee	2,000.00	—	—	—
3.	University Related Fee	1,150.00	—	550.00	—
4.	Exam Fee	1,000.00	1,000.00	1,000.00	700.00
5.	Other Fee	10,700.00	—	10,700.00	—
6.	University Related Fee	1,150.00	—	550.00	—
	Total Fee	30,350.00	16,500.00	27,750.00	16,200.00

The above fees does not include Hostel Related Fees & Mess Charges, Sports facilities, Blazer etc.

The above fee is as per Notification No. 13/30/2003-1TE2/1240 dated 01/04/2003.

No fees would be charged from eligible SC candidates under Post Matric Scholarship Scheme of Punjab Govt.

Securities (Refundable)	Includes: College, Library Security, Hostel, Mess
Other Fee	Includes: Souvenir, Institutional Membership, Students Amenities / Development, Identity Card & Library
University Related Fee (To be remitted to the University)	(University related fee includes: University Registration fee, Eligibility /Enrolment fee, University Continuation Fee, Youth Welfare Fee, Cultural & allied activities charges, University Sports facilities Development Fee, University Sports Fee etc.)

TUITION FEE WAIVER SCHEME (FOR B.TECH. & B.PHARMACY COURSE ONLY)

All Institutions affiliated to I. K. Gujral Punjab Technical University shall follow 'Tuition Fee Waiver Scheme' as prescribed by AICTE and notified by Government of Punjab vide its Notification No. 13/60/08-1TE2/1797 dated 23rd May, 2011, 13/60/08-1TE2/2007 dated 31.05.2012 and 13/60/08-1TE2/2092 dated 18.7.2013.

RULES FOR ADJUSTMENT / REFUND OF FEES

As per Notification No. 13/105/2010-1TE2/314 Dated: 28-01-2011 and Notification No.: 13/105/ 2011-1TE2/325 dated 28-01-2011:-

- a) In case a student changes his/her college/University during centralized counselling conducted by IKGPTU his/her fee shall be refunded by the previous Institution after deduction of Rs. 1000/-only and the original documents will be returned immediately.
- b) In case a student surrenders his/her seat within 7 days of the end of the online counselling, he/she must submit application to the college. IKGPTU shall only forward such cases to the concerned colleges/Universities and colleges must refund his/her full fee after deduction of Rs. 1000/-only.
- c) In keeping with the direction of Ministry of Human Resource Development Department, Govt. of India all Institutions and Universities shall in public interest, maintain a waiting list of students/candidates. In the event of a student/ candidate withdrawing before the starting of the course, the wait listed candidates should be given admissions against the vacant seat. The entire fees collected from the student, after a deduction of the processing fee of not more than Rs. 1000/- (Rupees One Thousand only) shall be refunded and returned by the Institution/University to the student/candidate withdrawing from the programme. It would not be permissible for institutions and universities to retain the school/institutes leaving certificates in original. Should a student leave after joining the course and if the seat consequently falling vacant gets filled by another candidate by the last date of admission, the institution must return the fees collected with proportionate deductions of monthly fee and proportionate hostel rent, where applicable.

ANTI-RAGGING

The AICTE has issued anti-ragging guidelines vide F.No. 37-3/Legal/AICTE/2009

Sub:- Prevention and prohibition of Ragging in Technical Institutions, Universities including Deemed to be Universities imparting Technical Education.

F.No. 37-3/Legal/AICTE/2009- In exercise of the powers conferred under Section 23 read with Section 10(b), (g), (p) and (q) of AICTE Act 1987, the All India Council for Technical Education, hereby makes the following Regulations:-

1. Short title and commencement

These Regulations may be called the All India Council for Technical Education (prevention and Prohibition of Ragging in Technical Institutions, Universities including Deemed to be Universities imparting technical education) Regulations 2009.

They shall come into force on the date of the notification.

2. Objectives

In view of the directions of the Hon'ble Supreme Court in SLP No. 24295 of 2006 dated 16/5/07 and in Civil Appeal number 887 of 2009, dated 8/5/2009 to prohibit, prevent and eliminate the source of ragging including any conduct by any student whether by words spoken or written or by an act which has the effect of teasing, treating or handling with rudeness a fresher or any other student, or including in rowdy or undisciplined activities by any student or students which causes or is likely to cause annoyance, hardship or psychological harm or to raise fear or apprehension thereof in any fresher or any other student or asking any student to do any act which such student will not in the ordinary course do and which has the effect of causing or generating a sense of shame, or torment or embarrassment so as to adversely affect the physique or psyche of such fresher or any other student, with or without an intent to derive a sadistic pleasure, in all higher education institutions on the country, and thereby, to provide for the healthy development, physically and psychologically, of all students, the All India Council for Technical Education, (AICTE) brings forth these Regulations. The details could be found out at <http://www.aicte-india.org/anti.htm>

OVERVIEW OF DEPARTMENTS

News from the Department of Mechanical Engineering

Mechanical Engineering (ME) Department

Faculty / Staff

S. No.	Programme	Duration
1	B.Tech. Mechanical Engineering	04 years
2	B.Tech. Automobile Engineering	03 years

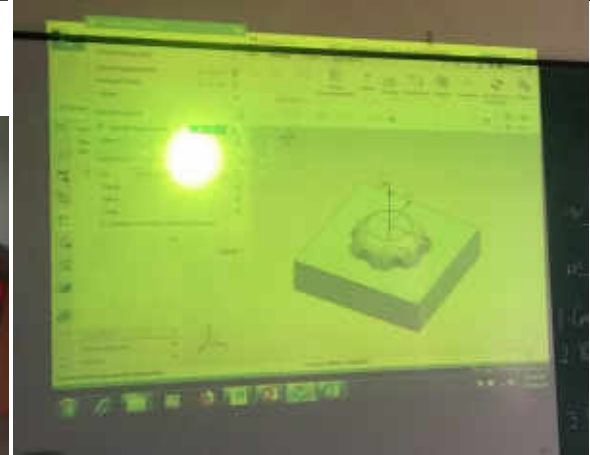
Sl. No.	Name of Faculty	Designation	Experience	Specialization
01	Dr. Gurpreet Kaur	Asstt. Professor	10 Years	Thermal Engg., IC Engines & Biofuels
02	Dr. Harpreet Singh	Asstt. Professor	10 Years	Thermal Engg., IC Engines & Biofuels
03	Dr. Anand Kaur	Asstt. Professor	10 Years	Vehicle Engg., Design Engg.
04	Dr. Gurpreet Singh	Asstt. Professor	10 Years	Machine Engg., Industrial Engg.
05	Dr. Gurpreet Singh	Asstt. Professor	17 Years	CAO/CAM & Robotics

- ❖ The Department of Mechanical Engineering organized one day workshop on 26th September, 2019 on topic "Advance Engine Technologies to meet future emissions norms (BS6)". The aim and objective of the workshop was to make the students aware about latest engine technologies for improving engine performance and reducing harmful toxic exhaust emissions from combustion engines. All the students of Mechanical Engineering participated enthusiastically in the workshop and laboratory demonstration of open ECU based engine test rig.





- ❖ The Department of Mechanical Engineering organized one day One day workshop on "CAD/ CAM Technologies" on 19-9-2019 by Department of Mechanical Engineering, IKG PTU Campus, Hoshiarpur in collaboration with GNA industries. The resource person was Er. Neeraj Mahey. He discussed in detail about the theoretical and practical aspects related to the computer aided design and manufacturing of the systems as per the requirements of the industry. He also shared valuable experience and motivated the students to undergo their industrial training in these areas of emerging technologies.



- ❖ In the department, new CNC machine lab was established in HiTech Automations, Pune supplied new CNC Lathe & Milling Machine trainer for the CNC machine lab of the department of Mechanical Engineering. This lab equipment would enable the students to have hand on practical experience in the design & manufacturing of the products and help them secure a competitive edge in their industrial career.



- ❖ IKG PTU Campus Hoshiarpur organized Undergraduate Presentation Skills Contest (UPSC-2019) under aegis of SOMME and IIT Ropar. Students from IIT Ropar, NIT Jalandhar, GNE Ludhiana, BBSBEC, ACET Amritsar, IKG PTU Campus Hoshiarpur and Amritsar participated in the contest. The winners of this event marched towards the next round of the event.



News from the Department of Computer Science & Engineering

Computer Science & Engineering (CSE) Department

Faculty / Staff

Courses Offered

S. No.	Programme	Duration
1	B.Tech. (Computer Science & Engg.)	04 years
2	BCA	03 years

Name of Faculty	Designation	Experience	Specialisation
Dr. Brijesh Bakshi (Department Coordinator)	Assistant Professor	10 Years	Data Mining, Machine Learning, Image Processing
Dr. Kulwinder Singh	Assistant Professor	12 years	Time Series, Mathematical Modelling
Dr. Sonu Dole Gang	Assistant Professor	17 Yrs	Control Systems & Data Mining

❖ Workshop on Cloud Computing for the B.Tech students of Computer Science Engineering Department in September 2019 by SachTech Solution Pvt. Ltd.

- On 20th September 2019, a workshop on “CLOUD COMPUTING” for the students of Computer Science Engineering was organised for enhancing their knowledge. One day workshop was organised at IK Gujral Punjab Technical University, Hoshiarpur campus. Various students from CSE department attended the workshop.
- The Technical Workshop dealt with managing and processing of data, especially obtained through original field research.
- Experts provided the practical implementation on cloud and its various services, thereafter conducted the test and offered scholarship to the students for their upcoming industrial training.



❖ Seminar on latest Technologies

Department of CSE organised a seminar on “**Latest Technologies (October, 2019)**” for B.Tech final year students. Experts interacted with the students on Kotlin, Php, Android, Java and their advanced versions. This seminar proved helpful to the students for their industry training and overall development.

News from the Department of Civil Engineering

Civil Engineering (CE) Department

Faculty / Staff

Sources Offered

S. No.	Programme	Duration
1	B.Tech (Civil Engineering / CEE)	03 years



Name of Faculty	Designation	Experience	Specialization
Dr. Jyoti Wahi (Department Coordinator)	Asst. Professor	11 Years	Development Engg.

❖ Survey Camp

Engineering Survey Camp for the B.Tech 3rd year students of Civil Engineering Department in June 2019. Surveying is the most important part before the planning and execution of any construction work and also it is necessary in the making of maps.

In June 2019, a Survey Camp for the 3rd year students of Civil Engineering was organised as it is the important part of their curriculum. One week survey camp (24th July, 2019 to 29th July, 2019) was planned at Chohal Dam (16 km away from the college location). A total of 15 students attended the survey camp and these students were divided into four groups.

Following Activities were performed:

- **Calculation of Reduced Levels using Auto level** – Firstly, stations were chosen to make an Open traverse and then a benchmark was selected to find the Reduced Level of stations using Height of Instrument method.
- **Making of map of whole area using Plane Table Surveying** – Plane table was centred, levelled and oriented using plumb bob, level tube and compass respectively and then the nearby objects like Poles, Trees, Building, Railing etc. were marked using Alidade and their distances were measured using measuring tape and autolevel and everything was plotted on the sheets.
- **Measurement of angles using Theodolites** – Horizontal and vertical angles between the respective stations and other accessible points were found out by using Theodolite.
- **Drawing of Contour Lines** – Reduced levels of all the nearby objects were calculated using autolevel and staff and then by using direct method by radial lines contour lines were marked.



News from the NSS Unit

❖ Defence Day

NSS committee organized Women self defence training workshop on 27 Sept 2019. The girl students of the campus actively participated in the event.



❖ Induction Program

IK Gujral Punjab Technical University Hoshiarpur Campus organised one week students Induction Program. In this program many activities such as seminar on Drug de addiction, Tour of Kartarpur (Jang-e-Azadi Memorial), Tour of Science City Kapurthala, Expert talk by Lt. Gen. J S Dhillon on the

role of Engineering in Armed Forces and Social aspects, Tree plantation and Poster making competition were organised.















Training & Placement Cell

❖ Entrepreneurship Awareness Camps (EACs)

IKG Punjab Technical University organized series of Entrepreneurship Awareness Camps (EACs) in collaboration with The Indus Entrepreneurs (TiE) to promote entrepreneurship in students. Under Phase-I of the series, an EAC was organised at the campus on Sept 04, 2019. The resource persons for the camp was Mr. Davinder Partap Singh, the Executive Director at TiE Chandigarh and Mr. Harit Mohan, Founder & CEO of Signicent LLP in India and Signicent LLC in Delaware, USA.

Mr Davinder Partap Singh shared his core commitments at TiE Chandigarh, to help entrepreneurs get the right education, mentorship, networking and funding opportunities to help their business grow and

scale. He briefed the students that TiE Chandigarh is one of the 61 chapters across the globe, helping students realize their dreams.

Mr Harit Mohan, an IIT Madras post-grad, informed that research and technology had always been close to his heart. He had also done course on entrepreneurship- launching an Innovative business from University of Maryland College Park. He motivated the students by sharing his success story.



❖ Rs. 1000 Carnival (A Fun Entrepreneurship Activity)

MHRD Innovation Cell celebrated innovation day to mark the birth anniversary of Dr. A P J Abdul Kalam falling on 15th October-2019. As the part of the innovation day campaign (Sept 23, to Oct 15), Training and Placement Cell of IKG PTU, Hoshiarpur campus, organized fun Entrepreneurship activity named "Rs. 1000 Carnival" for the students on 11th October-2019 in the college premises.

Under this event, the students were required to form a team of maximum five members among themselves. They were required to collect Rs. 1000 as total budget for the team. In total, 17 stalls were setup by the participating students. Stalls ranged from Game Stalls, Sweet Stall, Juice Stall, Food Stall, Sandy Point, Selfie Point, Computer Gaming Stall, Household Products Magic of Coins, Shakes and Cold Coffee, Dream Ice-cream, Game of Dots, Hasiyeen Khediyeen, Verka, Parliament Dhaba, etc.

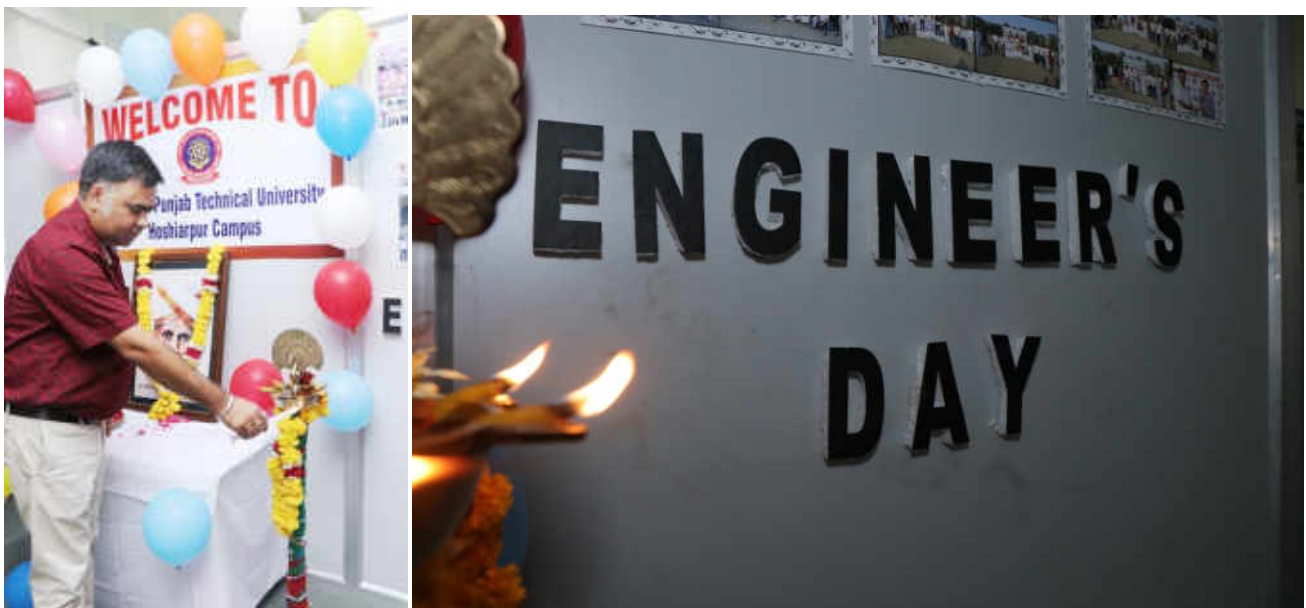




Techno Cultural Activities

❖ Engineer's Day

Engineer's day was celebrated on dated 16 September 2019 to celebrate the birth anniversary of Shri Mokshagundam Visvesvaraya falling on 15th September. A series of events of the students were planned for the day to motivate & inculcate the habits of competition & teamwork etc. among the students. The various activities included Poster making competition, Junk Yard, Face Painting and Rangoli Making. Moreover, students showed their interests and skills in computers by participating in Power Point Presentations and Programming Contests. The students of various departments participated with full enthusiasm and zeal in various events. The results of various activities were as under:











❖ PATH SHRI SUKHMANI SAHIB

In order to commemorate the celebration of 550th birth anniversary of Shri Guru Nanak Dev Ji, Shri Sukhmani Sahib Path was being organized at I. K. Gujral Punjab Technical University Campus Hoshiarpur on 18th October 2019.









Teacher's Day

- ❖ Teacher's Day is a special day dedicated to all teachers, celebrated every year to honor the teachers and appreciate their special contributions towards education. In India Teachers Day is celebrated every year on 5th September to commemorate the birth anniversary of Dr. Sarvepalli Radhakrishnan. IKG Punjab Technical University Hoshiarpur Campus celebrated Teacher's day on 5th September, 2019 with great fun and enthusiasm. Hence Teachers Day is observed to celebrate the contributions of a teacher to the society and nation. The day is observed with much joy by the students, who organize several events to entertain their teachers. Students gave gifts to the teachers & seek their blessings.



❖ Farewell Party

On 27th April, 2019, students organised farewell party “**Hasta la Vista**” at I.K. Gujral Punjab Technical University Hoshiarpur Campus for final semester students. All the seniors and juniors had a lot of fun together. The seniors received a warm welcome by the juniors as they entered wearing elegant attire. The programme began with the juniors performances. The juniors enthusiastically performed farewell songs

for the seniors; they sang the good bye songs which again created an ambiance full with emotions. The juniors were beautifully dressed in traditional costumes. The juniors created an ambiance of enjoyment and music for the seniors to enjoy their last memories in the college. Later the programme was followed with the award ceremony and title distribution.









Awards & Achievements

❖ Student Achievements

- Highway Industries Limited selected Ashish Kumar, Mechanical Engineering student of the campus during state level engineering job fair. Package of 3.15 LPA was offered to him.
- ICICI Bank selected Supinder Pal Singh, Civil Engineering student of the campus during job fair held at CT Institute, Jalandhar. Package of 2.40 LPA was offered to him.
- Fore Solution Pvt. Ltd. selected Manish Kumar, Mechanical Engineering student of the campus for Internship as Engineer – Training for six months stipend based training from Jan- June 2020 during job fair held at IKG PTU Kapurthala. Stipend of 10,000 per month was offered to him.

❖ Faculty Achievements

- Dr. Tarun Goyal, Assistant Professor in the Department of Mechanical Engineering attended the AICTE sponsored 1-week National level Faculty Development Programme on Modern tools and techniques for Teachers and Researchers at IKGPTU, Kapurthala from 18.11.2019-22.11.2019.
- Jujhar Singh, Lakhvir Singh, Tarun Goyal "Design of Micro-Controller based Dual Axis Solar Tracker for Mobile Laboratory", International Journal on Interactive design and manufacturing, UNDER REVIEW. SCI2.
- Tarun Goyal, T.S. Sidhu, R.S. Walia, "Characterization of cold sprayed copper coatings on Brass", International Journal of Materials Engineering Innovation, UNDER REVIEW. SCI2.

- Tarun Goyal, T.S. Sidhu, R.S. Walia, “Cold sprayed copper coatings on ASTM B36 alloy: Characterization and corrosion studies in simulated marine and industrial environment”, International Journal of Materials Engineering Innovation, UNDER REVIEW. SCI2.
- Tarun Goyal, R.S. Walia, T.S. Sidhu, “Investigation on multiple parametric optimization of cold sprayed coatings process”, Journal of Surface Science & Technology, UNDER REVIEW. SCI1.
- Tarun Goyal, R.S. Walia, T.S. Sidhu, “Investigation on technique for multiple parameter optimization of cold sprayed coatings process”, International Journal of Advanced Manufacturing Technology, UNDER REVIEW. SCI2 (2.601).
- Rohit Rampal, Tarun Goyal, “Comparing the SiC-iron ,Al₂O₃-iron powder combination using microwave sintering in terms of surface finish”, Journal of Mechanical Engineering Science and Technology”, UNDER REVIEW.
- Materials Science and Metallurgy, Dr. Tarun Goyal and Dr. R.S. Walia, IK Publication House, New Delhi. IN PRESS.
- 2. Engineering Materials and Metallurgy, Dr. Tarun Goyal and Dr. R.S. Walia, IK Publication House, New Delhi. IN PRESS.
- Sunil Kumar Mahla, Assistant Professor in the Department of Mechanical Engineering attended or organized One day workshop organized on “Advance engine technologies to meet future emission norms (BS6)” at IKG PTU Campus, Hoshiarpur on 26th September, 2019.
- 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
- Pali Rosha, Saroj K Mohapatra, Sunil Kumar Mahla, Amit Dhir, B.S. Chauhan, H.M. 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-CeO₂ 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
- 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 (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
- Himadri Rajput, Rahil Changotra, Vikas Kumar Sangal, Sunil Kumar Mahla, Amit Dhir (2019) A facile synthesis of Cs loaded TiO₂ nanotube photo electrode for the removal of 4-chloroguaicol, Chemosphere 218:687-695 (Elsevier, Impact factor-5.108) DOI:10.1016/j.chemosphere.2018.11.157
- Sunil Kumar Mahla*, Amit Dhir (2019) Performance and emission characteristics of CNG-fuelled compression ignition engine with Ricinus communis methyl ester as pilot fuel, Environmental Science and Pollution Research 26(1):775-785 (Springer, Impact Factor-2.914) DOI: 10.1007/s11356-018-3681-8
- “Influence of biogas mass flow rate and rice bran based biodiesel with diesel on a dual fuel engine”, Sunil Kumar Mahla, Geetesh Goga, Bhupendra Singh Chauhan, Amit Dhir, Haeng Muk Cho, Yogesh Kalia (Application No. 201911041108A, dated 11/10/2019, date of publication--The Indian Patent Journal No. 44/2019 dated 1/11/2019).
- Ph.D. Thesis Guided Geetesh Goga (2019) Performance and emissions characteristics of a diesel engine fuelled with biogas and oxygenated fuels (Co-Guide: Dr. B.S. Chauhan).
- Dr. Amit Handa, Assistant Professor in the Department of Mechanical Engineering Paper presentation/published- Sanjay sharma, Amit Handa, Sahib Sartaj SinghSingh and Deepak Verma (2019). Synthesis of a novel hybrid nanocomposite of AZ31 Mg-Graphene-MWCNT by multi-pass friction stir processing and evaluation of mechanical properties, Material Research Express (Accepted) (IOP, Impact factor-1.44)
- Sanjay sharma, Amit Handa, Sahib Sartaj SinghSingh and 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 7, 487-500(Published Online) (Elsevier, Impact factor-4.532)
- Santosh Kumar, Manoj Kumar, Amit Handa (2019). Comparative study of high temperature oxidation behaviour and mechanical properties of wire arc sprayed NiCr and NiAl coatings. Engineering Failure Analysis 106, doi.org/10.1016/j.engfailanal.2019.104173(Elsevier, Impact factor-2.203)
- Vikas Chawla, Buta S Sidhu, Amita Rani & Amit Handa (2019), High-temperature corrosion behaviour of some post-plasma-spraying-gas-nitrided metallic coatings on a Fe-based superalloy. Materials and corrosion, DOI: 10.1002/maco.201910971 (Wiley, Impact Factor-1.458)
- Dr. Rinku Walia, Assistant Professor in the Department of Civil Engineering attended the AICTE sponsored 1-week National level Faculty Development Programme on Modern tools and techniques for Teachers and Researchers at IKGPTU, Kapurthala from 18.11.2019-22.11.2019.

"Technology, unlike science is a group activity. It is not based on individual intelligence, but on the interacting intelligence of many"

Dr. A.P.J Abdul Kalam



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