



MECHANICA

2018 - 19

DEPARTMENT OF
MECHANICAL
ENGINEERING

**Technical Magazine of
Mechanical Engineering
Society**

**BRCM College of Engineering & Technology,
BAHAL - 127028, DIST. - BHIWANI, HARYANA**



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ACME

SCE
SCHOOL OF COLLEGE EDUCATION
GATEWAY TO KNOWLEDGE



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MECHANICAL ENGINEERING SOCIETY

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MECHANICAL ENGINEERING SOCIETY (MES)

AIMS & OBJECTIVES

Main objective of MES is to involve participation of students in various academic and cultural activities of the department. Through the activities of MES there will be enhanced interaction of students with faculty members. The students will be exposed to personality and skill development through its activities. The MES will organize following activities:

- ❖ Introduction/Welcome functions of fresher students and farewell of outgoing students.
- ❖ Farewell of outgoing faculty members.
- ❖ Invited lectures of outside and inside experts.
- ❖ Group discussion and Debate competition.
- ❖ Cultural/Picnic/Sports activities.
- ❖ Publication of departmental magazine “MECHANICA”.

OFFICE BEARERS OF MES

- | | |
|------------------------------|---|
| 1. Patron | Principal (Ex officio) |
| 2. President | Head of Deptt. (Ex officio) |
| 3. Faculty Advisor | Faculty member to be appointed by HOD |
| 4. Secretary | III Yr B.Tech. student to be nominated by HOD |
| 5. Jt. Secretary | III Yr B.Tech. student to be nominated by HOD |
| 6. Treasurer | III Yr B.Tech. student to be nominated by HOD |
| 7. Executive members of MES: | |
| i. B.Tech. I Yr | 01 student |
| ii. B.Tech. II Yr | 01 student |
| iii. B.Tech. III Yr | 01 student |
| iv. B.Tech. IV Yr | 01 student |
| v. M.Tech. I Yr | 01 student |
| vi. M.Tech. II Yr | 01 student |
| vii. Non teaching staff | 01 member |

SOURCES OF FUNDING FOR ACTIVITIES OF MES

- ❖ Financial support from Management
- ❖ Membership subscription (per annum):
 - I. Faculty members Rs. 200.00
 - II. Technical staff Rs. 100.00
 - III. All students Rs. 100.00
- ❖ Collection of Sponsorship / Donations / Advertisements through students efforts

M.TECH DISSERTATION (ABSTRACT) 2017-2019

Himanshu

Tungsten Inert Gas welding is otherwise called Gas Tungsten Arc Welding (GTAW), is a development circular segment welding procedure become a prevalent decision when an abnormal state of weld quality or impressive exactness welding is required. Be that as it may, the serious issues of TIG welding procedure are its moderate welding velocity and restricted to bring down thickness material in single pass. In this work, autogenously TIG welding has been performed on 5 mm thick AISI 1040 gentle steel plate without utilizing any filler material. Wide scope of welding current and sweep speed has been tried for getting a full entrance welding. Initiated motion has likewise been utilized to improve the weld profundity. In the wake of performing welding by keeping up various hole between the plates to be welded, weld globule geometry and rigidity of the weld has been explored. It is seen that, by keeping up a fitting whole full entrance welding of plate is conceivable which gives quality practically like base

material.

Tungsten Inert Gas welding is also known as Gas Tungsten Arc Welding (GTAW), is an advance arc welding process become a popular choice when a high level of weld quality or considerable precision welding is required. However, the major problems of TIG welding process are its slow welding speed and limited to lower thickness material in single pass. In this work, autogenous TIG welding has been performed on 5 mm thick AISI 1040 mild steel plate without using any filler material. Wide range of welding current and scan speed has been tested for obtaining a full penetration welding. Activated flux has also been used to improve the weld depth. After performing welding by maintaining different gap between the plates to be welded, weld bead geometry and tensile strength of the weld has been investigated. It is observed that, by maintaining an appropriate gap full penetration welding of plate is possible which gives strength almost similar to base material.

EXPERIMENTAL STUDY ON RHEOLOGICAL BEHAVIOUR OF COAL ASH SLURRY.

SUNIL

Coal ash slurry pipeline transportation is getting popularity in last decade because of low energy consumption mode, low maintenance cost and eco-friendly nature. But the main difficulties on which the investigators encountered are that the high pressure drop and large capacity pump for long distance pipeline flow. Coarser particle size BA slurry have settling characteristics which results in high pressure drop and also the sedimentation bed needs more power for flow in pipeline. Currently it is believe that adding some selective chemicals may change the rheological properties of the slurry and hence flow behaviour of

slurry in pipelines. Due to the above notions, this particular study is aimed on experimentally investigating the rheological properties of Bottom ash slurries with the addition of chemical at solid concentration ranging from 30 to 50% by weight. Two chemicals namely Cetyl Trimethyl Ammonium Bromide (CTAB) as a cationic surfactant and Sodium Salicylate (NaSal) as a counter ion at mixing proportions ranging from 0.1 to 1% by weight of total slurry is used. It has been shown in results that for solid concentration of 30% and 40% by mass all the samples behave as non-Newtonian and follows a Herschel-Bulkley model with shear thickening behaviours. From this investigation it can be concluded that the BA Slurry rheology is highly dependent on chemical additives at the chosen additive proportions and slurry concentration. It is also observed from the experimental result that the rheological properties of BA slurry is very much effected by shear rate and particle size range of BA. Combined effect of various ranges of BA solid concentration, shear rate and dosages of chemical additives investigates and gives encouraging results.

OPTIMIZATION OF PARAMETERS IN SOLAR AIR HEATER MOUNTED WITH DIFFERENT SHAPED RIBS BY PREFERENCE SELECTION INDEX METHOD

NAVEEN

In the present study, the optimal set of design parameters for a solar air heater with roughness elements has been predicted while using a preference selection index method. The numerical investigations have been performed to find the heat transfer and friction factor characteristics inside the ribbed solar air heater using computational fluid dynamics (CFD). Different types of rib geometry namely CASE-A: right angle triangle rib with

increasing height in flow direction, CASE-B: right angle triangle rib with decreasing height in flow direction, CASE-C: equilateral triangle and CASE-D: square rib have been considered under investigation. The effects of the three design parameters such as Reynolds number (4000, 8000, 12000, and 16000), rib pitch to height ratio (3, 6, 9, and 12), and rib geometry (CASE-A, CASE-B, CASE-C and CASE-D) are investigated. From CFD simulations, the information about thermal enhancement factor, friction enhancement factor, and performance index has been extracted which is further used for optimization purpose. The computational results revealed that the rib geometry enhances the thermal performance but at the same time the friction power penalty also increases which depress the overall performance of the system.

In view of this the preference selection index (PSI) approach based methodology has been applied using various performance criteria, i.e., thermal enhancement factor, friction enhancement factor, and performance index in order to determine the optimal design of the parameters which deliver maximum thermal performance with minimal increase in friction factor inside the collector duct. The optimal performance has been reported by A-1 having flow and geometric configuration as Reynolds number equal to 4000; rib spacing of 3; and CASE-A rib geometry (right angle triangle with increasing height in flow direction).

Microstrutral and Mechanical Behavior of Magnesium Base Composite Synthesized via FSP

Gopal Mishra

Friction Stir Processing (FSP) is a newly developed method used these days for the fabrication of different metal matrix composites. Present work, is an demonstration of magnesium base metal matrix composite prepared by FSP. An array of holes of diameter 2mm and depth of 4 mm were prepared in a 7 mm thick AZ61 magnesium alloy plates completely filled with TiC particles. One ,two and Three passes of FSP was carried with a threaded cylindrical tool using a tool rotational speed of 800 and 1200 rpm, traverse speed of 60 and 100 mm/min. Micro structural and micro hardness properties have been studied. It has been observed that TiC particles were perfectly distributed in the base metal with no defect formation.

TEACHERS' DAY CELEBRATION

Mechanical Engineering Society, in association with other departmental societies celebrated Teachers' Day, "GURU NAMAY: A tribute to Teachers", on 5th September 2018 in the Mechanical block. The chief guest Dr. S.K. Sinha (Director, BRCM Education Society), shared his thoughts with students about this very day. Afterwards, Principal Dr. Arbinda Sharma addressed the gathering and shared the importance of teacher in a student's life. Event was made memorable with the various cultural activities performed by students, and the healthy tasks performed by the faculty members. Personality matching titles were given to the faculty members by the students. The complete event was boosted by the music and cheers, faculty members shared funny experiences and memorable moments of their life.



EXPERT LECTURE ON NC&CNC BY NSIC

Computer numerically controlled (CNC) machine is central to precise and automated manufacturing. Vertical machining centres are a vital part of a CNC machine. Realizing the need of the hour, Mechanical Engineering Department in association with NSIC, New Delhi organized a Two days workshop on “CNC Lathe and VMC Programming” during March 12-13, 2019. The expert from NSIC has shared the concept of some commonly used jobs such as machining centres, boring, drilling, grinding, polishing, bending, folding, straightening, flattening, and punching. The workshop was highly interactive with doubt clearing session. The workshop will certainly be a stepping stone for ME students to get a chance in Indian machine tools industry.



EXPERT LECTURE BY DR JAIVEER LECTURES

Department of Mechanical Engineering organized an expert lecture **By Dr. Jaiveer** for the students of Mechanical Engineering. This invited lecture was delivered by Dr. S. K. Mishra (Principal GDC Memorial College, Bahal) on 23-03-2019. In his lecture Dr. Mishra emphasized on the importance of moral values in youths. Dr. Jaiveer also highlighted the importance of self-confidence, hard work and positive thinking in one's life. Dr. Jaiveer in his lecture mentioned that self confidence, patience and consistency are the most important ingredients to cook the recipe "victory". He interacted with the students and helped them figure out their queries. All in attendance were benefited by motivational words of Dr. Jaiveer.



Vishwakarma Day Celebration

Vishwakarma Day also known as Vishwakarma Jayanti or Vishwakarma Pooja is a day of celebration for Vishwakarma, a Hindu god, the divine architect and one of the fourteen precious things born of the Samudra manthan. He is considered as swayambhu and creator of the world. As a mark of reverence, the day of worship is not only marked by the engineering and architectural community but also by artisans, craftsmen, mechanics, smiths, welders, industrial workers, factory workers and others. It is customary for craftsmen to worship their tools in his name. Modern electronic servers are also worshipped for their smooth functioning.



The workshop in Mechanical Engineering Department was decorated with flowers and other decorative items. Unlike the previous years, Mechanical Engineering Department celebrated

Vishwakarma Day on 17th September, 2018 as a mark of reverence towards Vishwakarma, a Hindu deity. On the holy occasion of Vishwakarma Day whole staff of Mechanical Engineering Department along with students gathered in workshop, performed holy “Havan” and prayed for a better future, safe working conditions, and success in their respective fields. Instructors also prayed for the smooth functioning of various machines.



ACME 2018

ACME OCTOBER 2018

Mechanical Engineering Society organized its annual tech fest "ACME-2018" on 17th and 18th October, 2018. This was the 6th time MES organized "ACME" and celebrated its glory.

The fest was inaugurated on 17th November at 10:00 AM in Law seminar hall, in the auspicious presence of Dr. Arabinda Sharma, Principal BRCM-CET, Sh. Pawan Panghal, Registrar BRCM-CET, Sh. Kanwarpal Singh, Head of Mechanical Engineering Department, Sh. Parveen Berwal, Head of Civil Engineering Department, Faculty members and students of BRCM-CET. The ceremony was inaugurated by lamp lighting remembering Goddess Saraswati and an introductory speech by Principal, Dr. Arabinda Sharma. And he motivated the students and shared his experience.

HOD Mechanical Engineering Department Sh. Kanwarpal Singh and Rajat Lamba, Secretary MES, addressed the audience and expressed their warm wishes to the students for upcoming events in ACME. Then the annual technical magazine 'Mechanica 2018-2019' was also released. After the inaugural ceremony, the events PPT and aptitude test were organized.

After inaugural ceremony various technical and fun events like logo Quiz, Machine operation, Treasure hunt and races were organized on the very first day, where students showed their technical and cultural skills. MES achieved milestone with over 120 participants in aptitude test and over 250 participants in ACME-2018.

The second day started with GD and PI and was followed by other events like Math Quiz, Galli Cricket, and Logo Quiz.

On 18th October in the second session closing ceremony was held from 2:30 PM onwards and winners of various events were awarded with trophies, medals and Case Prize. The closing ceremony was concluded in presence of Dr. Arabinda Sharma Principal BRCM-CET, Sh. Kanwarpal Singh, Head of Mechanical Engineering Department, Heads of various Departments and faculty & staff member.

APTITUDE TEST/GD/TURN THE COAT

The event Aptitude test/ GD/ Turn the coat was organized in ACME 2018. The event was organized in two phases. First phase was a written Aptitude test organized on 16th November 2018, in which about 150 students from BRCM CET, GDC Memorial College and BRCM Public School took part. Out of these students, 40 students made their way to the second phase of the event. The second phase was a Group Discussion Round, organized on 17th November 2018 in the seminar hall C-305. Out of the 40 qualifiers from Aptitude test, 10 students were selected for the final round of the event, Turn the Coat. This one was a debate based round, in which the participant had to speak in the favor and against of the given topic simultaneously. The top three students from this round were declared 1st, 2nd and 3rd position holders.

WINNERS:-

1st Position:- Krishan Yadav (Cse 4th year)

2nd Position:- Naveen Kumar (Cse 4th year)

3rd Position:- Navneet Bulla (Me 3rd year)

EVENT COORDINATORS:-

Jay kishan sharma (Me 4th year), Kishan kumar (Me 3rd year) ,

Ujjwal kumar (Me 3rd year) ,

Deepak Mor (Me 3rd year) , Savil (Me 3rd year)



LOGO QUIZ

The event “Logo Quiz” was organized on 17th November 2018 from 12:00 PM onwards in seminar hall (B-108). There were a total of 25 teams, each consisting of two players. The teams had to guess the logos of various known brands and organizations. The event was conducted in three rounds. There were eliminations in the first two rounds. In the final round, there were only 10 teams, and out of them, following were declared the winners:-

WINNERS: -

1st position:- Shubham & Vikram (Eee 3rd year)

2nd position:- Vaibhav (Ce 4th year) & Rahul Jaglan (Ce 3rd year)

Event Coordinators: -

Siddharth Kr Verma (Me3rdyear) , Javed Ansari (Me3rdyear)



POWER POINT PRESENTATION

A Technical PowerPoint Presentation event was organized on 16th november at 10:30 AM in the Seminar Hall. It was judged by Mr. Amit (ME Department) Mrs.Anita Dalal and Mr. Nitesh Jain(ME Department). The event TPP was held for the holistic development of students. Participants presented various topics, based on theme “”.

The top three positions were grabbed by following students respectively:-

1st position :- Shristy (cse 2nd year)

2nd position :- Javed Ali Ansari (Me 3rd year)

3rd position :- Amit Tanwar(Me 3rd year)

Event Coordinator- Jay Kishan Sharma (Me 4th year) ,Guru parsad (Me 3rd year), Navneet (Me 3rd year), Vishal Thakur (Me 3rd year)



TOOL RECOGNISATION

“ TOOL RECOGNISATION ” was organized on 17TH November 2018 at 11:00 AM in the Machine Shop. Participants were recognise the tool.The teams were then invited for the questioning round.

The following teams grabbed top 3 positions:

Winners:

1st position :- Ujjwal (Me 3rd year) & Ajay (Me 2nd year)

Event Coordinators: Siddharth Kr Verma (Me 3rd year) , Amit Tanwar (Me3rdyear) , Rohit Rathee (Me 3rd year)



MATH QUIZ

A “MATH QUIZ” event was organized on 17TH Nov 2018 at 2:00 PM onwards in the Seminar Hall B-108. About 25 teams, each consisting of 2 students took part in this event. The event was wrapped up in the only single rounds. No negative marking in this quiz. All the questions are very easy. Top3 teams were selected:

1st position :- Gagan & Sunil (Me 4th year)

2nd position :- Rajiv & Radhe (Eee 2nd year)

3rd position :- Sanjeev & Pardeep (Me 4th year)

Event coordinator: Dheeraj Kr Jha (Me 3rd year) , Pradeep (Me 3rd year) , Rohit Rathee (Me 3rd year) , Deepak Mor (Me 3rd year).



TALENT HUNT

Talent Hunt event was organized in seminar hall on 17th November 2018 at 2:30 PM. The event started before at the end of the Annual Technical Fest ACME-2K18. In this event around 10 students showed their skills in various cultural activities like dancing, singing and skit performances. The event was judged by the Mr. kawarpal (HOD ME Department), Mr. Sunil baloda (A.P. ME), Mr. Pramod Saharan (A.P., CE).

Winners :

1st position :- Naveen (Cse 4th year)

2nd position :- Rahul (Cse 1st year)

3rd position :- Mahboob Alam (Me 4th year)

Event Coordinators : Siddharth Kr Verma (Me 3rd year) , Javed Ali Ansari (Me 3rd year) , Rohit Rathee (Me 3rd year) , Deepak Mor (Me 3rd year)



PAPER DANCE

An event “PAPER DANCE” was organized on 16TH November 2018 at 3:30PM onwards in the Central Lawn. A total of 30 students (15 teams) took part in this event. The teams were supposed to Dance together with his/her partner without touching the earth. The whole event was coordinated under the guidance of Mr. Sunil Baloda (A.P. ME Department) and Mr. Nitesh jain (A.P., ME Department). Mr. Amit phogla (A.P. ME Department).

WINNERS:-

1st position :- Kunal (Eee 3rd year) & Sanjiv Kr Mandal (Me 3rd year)

EVENTS COORDINATORS –

Dheeraj kr Jha (Me 3rd year) , Pradeep Kr (Me 3rd year) , Deepak Mor (Me3rdyear)



SPOON RACE

WINNERS

1st position (Girls):- Rashi Lamba (Cse 3rd year)

1st position (Boys):- Navdeep (Iib)

EVENTS COORDINATORS –

Ravi (Me 4th year) , Dheeraj kr Jha (Me 3rd year) , Deepak Mor (Me 3rd year) , Sanjiv Kr Mandal (Me3rd year)



HIT THE WICKET

WINNERS:-

1st position (Boys) :- Kartik (Me 4th year)

1st position (Girls):- Sonu (cse 2nd year)

EVENTS COORDINATORS –

Jay Kishan Sharma (Me 4th year) , Dheeraj Kr Jha (Me 3rd year) , Amit Tanwar (Me 3rd year)



TUG OF WAR

WINNERS:-

1st position:- Priyanka (& team Law Cllg)

1st position:- Praveen Poonia (& team BRCM CET)

EVENTS COORDINATORS -

Sanjiv Kr Mandal (Me3rdyear) , Dheeraj kr Jha (Me 3rd year) ,
Navneet Bulla (Me 3rd year)



3 LEG RACE

WINNERS:-

1st position (Girls):- Babita & Neha Mittal (Cse 3rd year)

EVENTS COORDINATORS –

Jay Kishan Sharma (Me 4th year) , Vishak Thakur (Me 3rd year) ,
Rohit Rathee (Me 3rd year)



BEG BORROW STEAL

WINNERS:-

1st position :- Naveen (& Team Cse 4th year)

EVENTS COORDINATORS –

Deepak Mor (Me 3rd year) , Pradeep (Me 3rd year)



GULLY CRICKET

WINNERS:-

1st position :- Kartik (& Team Me 4th year)

EVENTS COORDINATORS –

Jay Kishan Sharma (Me 4th year) , Dheeraj Kr Jha (Me 3rd year), Siddharth Kr Verma (Me 3rd year) , Guru Prasad (Me 3rd year)



MECHANICAL FIESTA-2k19

BRCM CET organized its annual tech fest "MECHANICAL FIESTA-2K19" on 3rd and 4th April 2018.

The fest was inaugurated on 3rd April at 01:25 PM in Autocad Lab, in the auspicious presence of Chief guest Dr. Arabinda Sharma, Principal BRCM-CET, Sh. Kanwarpal Singh, Head of Mechanical Engineering Department, Dr. Sudesh jakker HOD CSE Department Faculty members and students of BRCM-CET are present there., In these two days various technical and fun events like two days Autocad Workship, Logo Quiz, ppt ,Aptitude test,PUBG were organized on the First day& second day, where students showed their technical and cultural skills. Mechanical Fiesta achieved milestone with over 100 participants in aptitude test and over 250 participants in Mechanical fiesta-2K18.

The second day started with Aptitude test and ppt was followed by other events like PUBG.

AUTOCAD

The fest was started at Autocad Lab ,in the presence of Mr. Amit Kumar ,Head of Mechanical Engineering Department Sh. Kanwarpal Singh.This **Autocad Workshop** is Organized by Amit Tanwar, Navneet Bulla & Vishal Thakur. Autocad workshop is going on 3rd april (Timing 1:25PM-3:00PM) and Second Day 4th April (Timing 09:00 AM -1:00PM) . Total 80 Student were participated this event.



PPT

WINNERS:

1st position: Manish kumar (cse 2nd year).

2nd position: Parveen Kumar(ce 2nd year).

EVENT CO-ORDINATORS

Siddharth kumar verma,Javed ali Ansari.

JUDGE:

Mr.Amit kumar,Dr Sandeep Chauhan.



APTITUDE TEST

The event Aptitude test was organized in MECHANICA FIESTA 2K19. Aptitude test organized on 4th april 2019, in which about 70 students from BRCM CET,. Out. The top two students from this round were declared 1st and 2nd position holders.

WINNERS:

1st position: Shubham kumar(EEE 3rd year).

2nd position: Pulok (cse 3rd year) , suryanshu (cse 1st year).

EVENT CO-ORDINATORS:

Dheeraj Kumar jha,Ujjwal singh,Amit Tanwar.



PUBG

WINNERS:

1st position: Abhishek(cse 2nd year) & Nishant Tomar(cse 2nd year).



DEPARTMENTAL VISIT

HERO MOTO COP INDUSTRIAL VISIT

A visit to Hero moto cop was organized on 24th November, 2018. Around 55 students of ME department visited the hero moto cop . Faculty coordinators Sh. Amit Kumar (A.P., ME Department) and Sh. Kanwarpal Singh (HOD, ME Department) accompanied the students to the site.

Various startups across India have showcased their work and startup plan. Students has shown a lot of enthusiasm and grabbed most of this visit. Some students took part in few competitions there and were rewarded with appreciation certificates.

In the end, Sh. Amit Kumar and Sh. Kanwarpal Singh motivated the students to get more and more exposure to the current trends in industry and to get going with the startup idea of Indian government.



Faculty Mechanical Engineering Department

Name	Designation	Qualification
Mr. Kanwarpal Singh	Asstt prof	B.Tech(ME), M.Tech(M&A), (Ph D Submitted)
Dr.Sandeep Chauhan	Asstt prof	B.Tech(ME),M.Tech(MT&A),Ph.D
Mr. Sunil	Asstt prof	B.Tech(ME),M.tech(Thermal Engg.(Ph.D Pursuing)
Mr Vishwas Yadav	Asstt prof	B.Tech(ME),M.Tech(I&P),(Ph.D Pursuing)
Mr. Amit Kumar	HOD Mechanical & Asstt prof	B.Tech(ME),M.Tech(ME), (Ph.D Pursuing)
Mr.Nitesh Jain	Asstt prof	B.Tech(ME),M.Tech (M&A), (Ph.D Pursuing)
Mr.Mandeep	Asstt prof	Diploma (ME),B.Tech (ME),M.Tech
Mr. Ravinder	Asstt prof	B.Tech(ME),M.Tech (M&A)

Supporting Staff Mechanical Engineering Department

Name	Designation	Qualification
Mr. Arvind Godara	Instructor (Sr. Scale)	Diploma (ME)
Mr. Pardeep Kumar	Instructor (Machine Shop)	ITI (Turner), CTI, BA
Mr. Ladhu Ram	Technician (Welding)	ITI (Welder)
Mr. Sanjay Kumar	Carpenter (Workshop)	ITI

Faculty Publications/ Conferences (Int. National and National)/Seminar and Workshops attended

Kanwarpal singh

- “An Analysis of Sintering Mechanism”, Proceedings of National Conference on Recent developments in Mechanical Engineering , 19-20 February, 2010, pp 272-275, BRCM-CET, Bahal, Haryana.
- “Powder Metallurgy (PM) of Aluminum Alloy”, Proceedings of National Conference on Recent developments in Mechanical Engineering , 19-20 February, 2010, pp 208-211, BRCM-CET, Bahal, Haryana.
- “Cogeneration of Energy”, Proceedings of National Conference on Industrial Electronics, Drives and Embedded Systems, March 7-8, 2009, BRCM CET Bahal, Haryana.
- “Sintering Technology: An Analytical Overview”, Proceedings of NCTI, October 11-12, 2008, pp 418-423, BRCM CET Bahal, Haryana.
- “An Analysis of Surface Roughness and Machinability of Al-Fe-Si Alloys”, Proceeding of National Conference TAME-2012, October 19-20, 2012, YMCAUST, Faridabad (Haryana).
- “Numerical simulation of finer particles at higher concentration for pipeline flow” Proceedings of National Conference on Recent Trends and Innovation Civil Engineering held at BRCM CET, Bahal during 15th-16th November, 2013.
- “CFD Modeling For Slurry Pipeline Flow: A Literature Review” Proceeding of National Conference on Recent Trends and Innovation Civil Engineering held at BRCM CET, Bahal during 15th-16th November, 2013.
- “Effect of process parameters on hear affected zone using gas metal arc welding” Proceeding of National Conference on Recent Trends and materials engineering held at BRCM CET, Bahal during 4th-5th October, 2013.
- “Optimization of parameters in welding of MS plates” Proceeding of National Conference on Recent Trends and materials engineering held at BRCM CET, Bahal during 4th-5th October, 2013.

- “Optimization of parameters in powder metallurgy of Al-based alloys” Proceeding of National Conference on Recent Trends and materials engineering held at BRCM CET, Bahal during 4th-5th October, 2013.
- “CFD modeling of slurry transportation in pipeline for Concentration Distribution using different models “communicated for national conference on recent advances in mechanical and civil engineering (RAMCE-2014), Ghaziabad during 4th-5th April, 2014.
- “Simulation of Thermal Power Plants”, Proceedings of International Conference on Innovative Technologies, p-662, June 18-19, 2009, PDM Bahadurgarh (Haryana).
- “Modern World Class Manufacturing Scenario”, Proceedings of International Conference on Innovative Technologies, p-681, June 18-19, 2009, PDM Bahadurgarh (Haryana).
- “Development of Robot Technology” Proceedings of International Conference on Innovative Technologies, p-660, June 18-19, 2009, PDM Bahadurgarh (Haryana).
- “Simulated Study of Feasibility and Design of 10 KWp STV” Proceedings of 2nd International Conference on ESTEEM-2013, March 3-4, 2013, PPIMT Hisar (Haryana).
- QIP short term course on “Challenges in Measurements of Single and Two Phase Flow – Recent Trends” held during June 24-28, 2013, organized by MIED at IITR, Roorkee (U.K.).
- Attended two days National Seminar on “Applications of Graph Theory A Novel Technique for Research” at YMCA-UST.
- Participated in Workshop MF-2015, 11-12 September, 2015 held at BRCM-CET, Bahal.
- “CFD Modelling and experimental investigation of bi-modal slurry flow in horizontal pipelines and bends” in IUP journal of Mechanical Engineering.
- Computational modeling for fine particle flow in horizontal slurry pipelines” in International Journal Research and Reviews : Journal of Physics
- A paper entitled on “ Performance analysis of centrifugal pump used in slurry pipe line transportation by CFD modeling in ANSYS 15” IJERMCA, Vol. 7(2), pp. 437-442, ISSN 2319-7471
- A paper entitled “Nano technology and nano materials: In advance developing approach in Indian industries” IJARESN, Vol. 6(4), pp. 1-6, ISSN 2455-6211.

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Sunil

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National Conference on Advances in Mechanical Engineering (NCAME-2011), 20th - 21st May 2011, UIET, Panjab University, Chandigarh, pp. 19-22.

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- Applications of Nano-materials and Nanotechnology in Construction Industry- A Review, Proceedings of National Conference on Recent Trends and Innovation in Civil Engineering, November 15-16, 2013, BRCM-CET, Bahal, Haryana, pp. 48-52.
- Career prospects for Mechanical engineers, Technical journal of Mechanical Engineering Society (MES), June, 2013, p. 5, BRCM CET, Bahal (Haryana)
- Attended one week QIP sponsored Short Term Course on "Recent Advances in Utilization of Hydrogen in Internal Combustion Engines" organized by Centre for Energy Studies, Indian Institute of Technology Delhi from July 7-11, 2014.
- Attended two week ISTE Workshop sponsored by MHRD on "Control Systems" organized by IIT Kharagpur from Dec. 02 – Dec. 12, 2014.
- Participated in Workshop on, 'MF-2015, 11-12 September, 2015 held at BRCM-CET, Bahal

Amit Kumar

- Evaluation of Convective Heat Transfer Coefficient for Sensible Heating of Sugarcane Juice by Copper Immersion Rod, Proceedings of National Conference NEIET-2012, April 28, 2012, BITS, Bhiwani (Haryana).
- Thermal Performance of Copper and Brass Immersion Rods for the Evaporation of Sugarcane Juice, S-JPSET: ISSN: 2229-7111, 2012, Vol. 4, Issue 1.
- An overview of optimization techniques used in solar drying, Asian Journal of Science and Applied Technology (AJSAT) Vol1.No.1 2013 pp 5-11.
- An overview of heating process used in Jaggery making, Proceeding of National Conference RTME-2013, October 4-5, 2013, pp.76-81, BRCM CET, Bahal (Haryana).
- Effect and Comparison of Open Sun and Indoor Forced Convection on Heat Transfer Coefficients for Drying of Vermicelli, Proceeding of National

Conference RTME-2013, October 4-5, 2013, pp.136-144, BRCM CET, Bahal (Haryana).

- Career prospects for Mechanical engineers, Technical journal of Mechanical Engineering Society (MES), June, 2013, p. 5, BRCM CET, Bahal (Haryana)
- I attended one week TEQIP sponsored short term course on "Fundamentals of Tribology" organized by Department of Mechanical Engineering, National Institute of Technology Hamirpur, (H.P.) from May 26-30, 2014.
- I attended one week TEQIP sponsored short term course on "Recent Advances in Utilization of Hydrogen in Internal Combustion Engines" organized by Centre for Energy Studies, Indian Institute of Technology Delhi from July 7-11, 2014
- Participated in Workshop MF-2015, 11-12 September, 2015 held at BRCM-CET, Bahal.
- Published a paper entitled "Design and implementation of hydraulic press system using MATLAB", in the International Journal of Engineering Sciences and Research Technology (IJESRT), Vol. 7(8), pp. 13-17, 2018, ISSN: 2277-9655. DOI: 10.5281/zenodo.1336656.
- Successfully completed 8 week (August- September 2018) NPTEL course as well as 1 week FDP entitled Introduction to Composite and exam was held on 7th October 2018 organised by IIT Kanpur.

Vishwas Yadav

- Presented a paper entitled ,” Applying Total Productive Maintenance in Auto-Sector: A case study with Sandhar Gurgaon, Proceeding of national conference on Recent Trends in Mechanical Engineering ,October 4-5,2013, BRCM-CET, Bahal, Haryana, PP.409-415.
- Presented a paper entitled, “Effects of Total Productive Maintenance : A case study with Sandhar Automotive Gurgaon, Proceeding of national conference on Emerging Trends in Mechanical Engineering(NCTEM-2014), Organized by Gate Way Institute of engineering and Technology, Sonapat.
- Presented a paper entitled,” Anaysis of Magneto Rheological fluid, Proceeding of national conference on Emerging Trends in Mechanical Engineering

(NCTEM-2014), Organized by Gate Way Institute of engineering and Technology, Sonapat.

- Presented a paper entitled ,” Different techniques used for drying agriculture products in current scenario, Proceeding of national conference on Emerging Trends in Mechanical Engineering(NCTEM-2014), Organized by Gate Way Institute of engineering and Technology, Sonapat.
- Participated in Seminar on, Design Technology Interface, on 28th August, 2012 held at NIT Kurukshetra and sponsored by national institute of design, Ahmedabad.

Attended two week ISTE Workshop sponsored by MHRD on “Control Systems” organized by IIT Kharagpur from Dec. 02 – Dec. 12, 2014.

- Participated in Workshop on DERC, 2-3 March, 2015 held at BRCM-CET, Bahal
- Participated in Workshop on MF-2015, 11-12 September, 2015 held at BRCM-CET, Bahal
- Published a paper entitled “ Management of supply chain management in agro food sector”, A case study, in the International Journal of Manufacturing Technology Management, Vol. 3, issue 5, pp. 240-251, ISSN 1741-038X
- Successfully completed 8 week (August- September 2018) NPTEL course entitled Mechanics of Machining and exam was held on 7th October 2018 organised by IIT Guwahati.

Nitesh Jain

- Convective heat transfer coefficient for indoor forced convection drying of vermicelli, IOSR Journal of Engineering June. 2012, Vol. 2(6) pp: 1282-1290.
- Effect and Comparison of Open Sun and Indoor Forced Convection on Heat Transfer Coefficients for Drying of Vermicelli, Proceedings of National Conference RTME-2013, October 4-5, 2013, pp.136-144, BRCM CET, Bahal (Haryana).
- Participated in Workshop MF-2015, 11-12 September, 2015 held at BRCM-CET, Bahal.

- Successfully completed 8 week (August- September 2018) NPTEL course as well as 1 week FDP entitled Introduction to Research and exam was held on 7th October 2018 organised by IIT Chennai.

Ankit Panghal

- Ankit Panghal, Gulshan Sachdeva “Analysis of ejector refrigeration system of fixed ejector geometry “International Conference on “Sustainable Development through Research in Engineering and Management (“SDREM 2016”), at YMCA University of Science and Technology on 26-27 Dec.2016.
- Ankit Panghal, “Experimental investigation of passive cooling in buildings with insulation and thermal energy storage system” 2nd International Conference on Research Trends in Engineering, Applied Science and Management (ICRTESM-2017), National Institute of Technical Teachers Training & Research (NITTTR), Ministry of MHRD, Govt. of India,Sec-26, Chandigarh.
- Ankit Panghal, Gulshan Sachdeva “Analysis of ejector refrigeration system of fixed ejector geometry” National Conference on Recent Advances in Mechanical Engineering. June 02-03, 2017, at NIT Kurukshetra.

Sandeep chauhan

- Sandeep Chauhan, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2016), **“Analysis of Powder Metallurgy Process Parameters for Mechanical Properties of Sintered Fe-Cr-Mo Alloy Steel”**, Materials and Manufacturing Processes, Taylor and Francis, Vol. 32, Issue 5, pp. 537-541, **Impact factor = 2.669**, Print ISSN: 1042-6914 Online ISSN: 1532-2475 <http://dx.doi.org/10.1080/10426914.2016.1221083>. (SCI).
- Sandeep Chauhan, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2017), **“Studies on induction hardening of powder-metallurgy-processed Fe–Cr/Mo alloys”**, International Journal of Minerals, Metallurgy and Materials,

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- Sandeep Chauhan, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2018), **“Influence of Sintering Temperature and Cooling Rate on Microstructure and Mechanical Properties of Pre-Alloyed Fe-Cr-Mo Powder Metallurgy Steel”**, Transaction of Indian Institute of Metals, Springe Publication, Vol. 71, Issue 1, pp. 219-224, **Impact factor = 0.91**, DOI 10.1007/s12666-017-1157-z (**SCI**).
 - Sandeep Chauhan, V. Dr. Ujjwal Prakash, Dr. P.C. Tewari and Dr. Dinesh Khanduja (2016). Paper entitled, **“Processing of Cr-Mo Alloy Steel via PM Route”**, Elsevier- Materials Today Proceedings, <http://dx.doi.org/10.1016/j.matpr.2016.09.001>, ISSN: 2214-7853 (**SCOPUS**).
 - Sandeep, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2014). Paper entitled, **“Ranking of Sintered Material for High Loaded Automobile Application by Applying Entropy-TOPSIS Method”**, Elsevier- Materials Today Proceedings. <http://dx.doi.org/10.1016/j.matpr.2015.07.306>, ISSN: 2214-7853 (**SCOPUS**).
 - Sandeep Chauhan, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2014), paper entitled **“Analysis of Powder Metallurgy Process Parameters for Relative Density of Low Carbon Alloy Steel using Design of Experiments Tool”**, published in Applied Mechanics and Materials Journal, Trans Tac Publications, 592-594, 72-76, [DOI:10.4028/www.scientific.net/AMM.592-594.72](http://dx.doi.org/10.1016/j.matpr.2015.07.306), ISSN: 1662-7482 (**INSPEC**).
 - Sandeep Chauhan and Dr. P.C. Tewari (2013), paper entitled **“Effect on Mechanical and Metallurgical Properties by adding Alloying Elements in Iron by using Powder Metallurgy Technique: A Critical Literature Review”** International Conference on Advances in Mechanical and Computer Engineering on January 18-19, 2013 organized by Ganpati Institute of Technology and Management, Bilaspur, Yamuna Nagar, Haryana, India.
 - Sandeep, P.C. Tewari and Dinesh Khanduja (2013), paper entitled **“Framework for Induction Hardening Parameters Optimization of Sintered Iron Alloy by using Intelligent Techniques”**, 4th International Conference on

Emerging Trends in Engineering and Technology (IETET-2013) and Technically co-sponsored by ACEEE, IDES, USA on October 25-27, 2013 organized by Geeta Institute of Management & Technology Kanipla, Kurukshetra, India.

- Sandeep, P.C. Tewari and Dinesh Khanduja (2013), paper entitled **“Conceptual Analysis of Heat Treatment Aspects for Low Carbon Alloy Steel by Using Powder Metallurgy Technique”** The proceedings of the International Conference on Emerging Material Technology (ICEMT 2013) on April 8-10, 2013 organized by Gyan Ganga Institute of Engineering and Technology, Jabalpur, Madhya Pradesh, India.
- Sandeep, P.C. Tewari and Dinesh Khanduja (2013), paper entitled **“Hardness and Case Depth Optimization Strategy for Induction Hardening Process in Powder Metallurgy by using TOPSIS”** National Conference on Recent Trends in Materials Engineering (RTME-2013) on October 4-5, 2013 at BRCM CET, Bahal, Bhiwani, Haryana, India.
- Sandeep, P. C. Tewari, Dinesh Khanduja (2014), paper entitled **“Optimization of Powder Metallurgy Process Parameters for Relative Density of Aluminium using Design of Experiments Tool”**, National Conference on Advance and Research Technology, March 8- 9, 2014, Yamuna Group of Institution, Yamuna Nagar, Haryana, India.
- Sandeep, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2014), paper entitled **“Analysis of Powder Metallurgy Process Parameters for Relative Density of Copper using Design of Experiments Tool”**, 4thNational Conference on Recent Advances in Manufacturing on June 26-28, 2014, National Institute of Technology, Surat, Gujrat, India.
- Sandeep Chauhan, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2015), oral presentation on **“Study of Powder Metallurgy Process Parameters for Mechanical Properties of Sintered Fe-Cr-Mo Alloy Steel”**, National Conference on Advanced Materials and Processing (CAMP-2015) on December 2-4, 2015 organized by Malaviya National Institute of Technology, Jaipur, Rajasthan, India.
- Sandeep Chauhan, Zahir Hasan, P.C. Tewari (2015), oral presentation on **“Study on Induction Hardening of Sintered Low Carbon Alloy Steel”**, IVth

International Conference on Production & Industrial Engineering on December 19-21, 2016 organized by Dr. B R Ambedkar National Institute of Technology Jalandhar-144011, Punjab, India.

- Sandeep Chauhan, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2016), Poster presentation on “**Processing of Cr-Mo Alloy Steel via PM Route and their Characterization**”, International Conference on Advances in Refractory and Reactive Metals and Alloys (ARRMA-2016) held on January 27-29, 2016 organized by Materials Group, Bhabha Atomic Research Centre, Trombay, Mumbai-400085, India.
- Sandeep Chauhan, Ujjwal Prakash, P.C. Tewari and Dinesh Khanduja (2017). Poster Presentation on “**Analysis of Induction Hardening of Fe-Cr/Mo Alloy Processed via PM Route**”, International Conference on Emerging Trends in Materials and Manufacturing Engineering, IMME17 held on March 10-12, 2017, National Institute of Technology, Tiruchirappalli, Tamil Naidu, India
- Attended National Level Workshop on “**Computer Aided Technology(CA-X)**” held on 4 to 6 March, 2011 at BRCM CET Bahal, Bhiwani, Haryana, India.
- Attended Seminar on “**Advance in Material Processing and Production Technology**” held on 24-25 Feb., 2012 at GGITS Jabalpur Madhya Pradesh, India.
- Attended National Workshop on “**Modeling and Simulation using Simulink with Engineering Application**” held on 13th Oct., 2012 at BRCM CET Bahal, Bhiwani, Haryana, India.
- Attended Global Conference on “**Emerging Trends in Mechanical Engineering**” held on 22nd Feb., 2013 in Siddhivinayak Group of Institution Yamuna Nagar, Haryana, India.
- Attended International Workshop on “**Advances in Composites in Auto Industries**”, the proceedings of the International Conference on Emerging Material Technology ICEMT 2013, April 8-10, 2013, Jabalpur, Madhya Pradesh, India.
- Attended Two Days Workshop on “**Entrepreneurship**”, held on April 19 to 20, 2013 at National Institute of Technology Kurukshetra, Haryana, India.

- Attended STC on “**Design of Experiments: An Optimization Tool (DOEOT-2013)**” held on Dec. 27 to 29, 2013 at National Institute of Technology, Rourkela-769008, Odisha, India.
- Attended one week Short Term Course on “**Advanced Engineering Optimization Through Intelligent Techniques (AEOTIT-2014)**”, held on September 22-26, 2014 at Sardar Vallabhbhai National Institute of Technology (SVNIT), Ichchanath, Surat, Gujarat, India.
- Attended Two Days Workshop on “**Developments in Energy Resources and Conservation**”, held on March, 2-3, 2015 at BRCM CET, Bahal, Bhiwani, Haryana, India.
- Attended one week Short Term Course on “**Advanced Materials and Characterization**” held on **June 08 - 12, 2015** at National Institute of Technology, Kurukshetra, Haryana, India.
- Attended four days Short Term Course on “**Powder Metallurgy Short Course (PMSC-15)**” held on September, 24-27, 2015 at College of Engineering, Pune, Maharashtra, India.
- Attended Two days’ Workshop on “**Research Methodology and Manuscript Writing**”, held on **April 9 to 10, 2016** at National Institute of Technology Kurukshetra, Haryana, India.
- Attended one week Short Term Course on “**Materials and Processes for High Temperature Applications**” held on June, 6th to 10th, 2016 at Indian Institute of Technology, Roorkee, Uttarakhand, India.
- Attended one week Short Term Course on “**Advances in Manufacturing (AIM 2016)**” held on October 17-22, 2016 at National Institute of Technology, Kurukshetra, Haryana, India.
- Attended one week short term course through GIAN on “**Microstructural Engineering and Properties of Advanced Ceramics**” held on November 15 to 21, 2016 at Indian Institute of Technology, Roorkee, Uttarakhand, India.
- Attended Two days’ short term course on “**Renewable Energy: Technologies & Transitions**”, held on March 22-23, 2017 at National Institute of Technology Kurukshetra, Haryana, India.

- Successfully completed 8 week (August- September 2018) NPTEL course as well as 1 week FDP entitled Introduction to Research and exam was held on 7th October 2018 organised by IIT Chennai.
- Successfully completed 8 week (August- September 2018) NPTEL course as well as 1 week FDP entitled Introduction to Composite and exam was held on 7th October 2018 organised by IIT Kanpur.

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<p>College Roll No.: -15-me-3103 D.O.B.: -05-12-1997 Name:-Amit khichar P.A.: -Hisar E-mail ID:-amitkhicharo@gmail.com. Life at BRCM-CET:-Good I'll always remember:-HOD, Sunil Baloda P.J.:-</p>	 <p>College Roll No.: -16-me-3139 Name:-Ravi D.O.B.: -04-03-1998 P.A.: -Sirsa,haryana E-mail ID:-ravisingh31998@gmail.com Life at BRCM-CET:-Good I'll always remember:-HOD, Nitesh Jain P.J.:-</p> 
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<p>College Roll No.: -15-me-3107 Name:-Ashish Dubey D.O.B.: -11-11-1998 P.A.: -surat gujarat E-mail ID:- dubey195@gmail.com Life at BRCM-CET:-good I'll always remember:-friends. P.J.: -</p> 	<p>College Roll No.: -15-me3123 Name:-Rohit D.O.B.: -21-05-1997 P.A.: -timber trader, behal E-mail ID:-rohitzangra888thebond@gmail.com Life at BRCM-CET:-Better I'll always remember:-K.P(HOD) P.J.: -</p> 
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