



IIW – PDPU Student Chapter

October 21-September 22



| Sr No | Date | Name of Activity | | No. of Participants |
|-------|-----------------------------------|---|-----------------------|---------------------|
| 1. | 21 st November 2021 | Offline Interaction with InoxCVA Officials | Seminar | 30 |
| 2. | 3 rd December 2021 | Quiz Competition on Welding Processes and Metallurgy | Quiz | 15 |
| 3. | 11 th December 2021 | The Welding Quiz for Aspirant Welding Engineers | Student Participation | |
| 4. | 13-17 th December 2021 | Skill Development Programme | Workshop | 39 |
| 5. | 17 th December 2021 | Women in Welding - Young Profession Seminar | Seminar | 35 |
| 6. | 20-24 th December 2021 | Skill Development Programme | Workshop | 52 |
| 7. | 24 th December 2021 | Young Profession Seminar | Seminar | 60 |
| 8. | 27-31 st December 2021 | Skill Development Programme | Workshop | 40 |
| 9. | 25 th January 2022 | Workshop on Welding Simulator | Workshop | 15 |
| 10. | 22 nd February 2022 | Hand on Training on Sand Casting (Offline) | Workshop | 18 |
| 11. | 26 th February 2022 | Young Engineers' Competition 2020-21 | Student Participation | |
| 12. | 4 th March 2022 | One day workshop on Additive Manufacturing with Welding (Offline) | Workshop | 63+3 |
| 13. | 8 th April 2022 | Industrial Visit to Kalptaru Power Transmission Ltd. And iACE | Industrial Visit | |
| 14. | 11 th April 2022 | Hand on Training Workshop on Non Destructive Testing by Hertz Testing and Training Centre, Vatva, Ahmedabad | Workshop | |
| 15. | 12 th April 2022 | Expert Talk by Dr. Amit Kumar & Mr. Abhishek | Seminar | |
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Offline Interaction with InoxCVA Officials

| | |
|---|---|
| Name of the event | Interaction |
| Title of the talk/Industry visit: | Offline Interaction with InoxCVA Officials |
| Name of the speaker & Affiliation/Company | Mr. Gautam Gohil, GM Operation, INOXCVA & EC Member IIW Baroda Branch Mr. V. V. Gandhi, AGM Production, INOXCVA |
| Date/ time: | 27 th November 2021 03:30 p.m |
| Venue | E101, FF, E Block, PDEU |
| Content of the topic (200 words) | An offline interaction with Mr. Gautam Gohil, GM Operation, INOXCVA & EC Member IIW Baroda Branch and Mr. V. V. Gandhi, AGM Production, INOXCVA was arranged by Dr. Vishvesh Badheka for students of B. Tech and M. Tech present at the campus. Mr. Gautam gave a brief introduction and shared with the students an informative video about INOXCVA. The session was then open for question and answers. Students queried about the technicalities at the field, recruitment prospects, and other such requirements. It was a very enlightening meeting where in students gained a lot of clarity and understanding. Official shared their collaborations with renowned organizations like ISRO, DAE etc, past associations with PDEU and plan for future engagements. Mr. V V Gandhi delivered a short but useful lecture from the HR perspective of the company. Both the speakers motivated the students for their bright future and wished them luck. The communication ended with a group photograph. |
| Number of participants | 30 |



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Group photograph (2-3)





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IIW – PDEU Students Chapter Presents on



Offline interaction with InnoxCVA officials

Date and Time :- 27th Nov 21 @ 3.30 PM
@ E 101

Mr Gautam Gohil, GM Operation,
INOXCVA & EC Member IIW Baroda Br.

Mr V . V . Gandhi, AGM Production
INOXCVA

Contact – Dr. Vishvesh Badheka (Moderator)
Chairman, IIW-PDEU Students Chapter,
Professor and Head,
Mechanical Engineering Department,
School of Technology,
Pandit Deendayal Energy University



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Quiz Competition on Welding Processes and Metallurgy

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|---|---|
| Name of the event | Quiz Competition on Welding Processes and Metallurgy |
| Title of the talk/Industry visit: | Welding Processes and Metallurgy |
| Name of the speaker & Affiliation/Company | IIW-PDPU Student Chapter |
| Date/ time: | 3 rd December 2021 10:00 a.m. |
| Venue | E103, FF, E Block, PDEU |
| Content of the topic (200 words) | <p>Quiz competitions are always interesting and informative, which provide excitement among the students. The main objective of this event was to make them aware of recent knowledge related to Welding Processes and Metallurgy. This was an offline interaction with the students of MTech as well as the Ph.D.Scholars organized by Dr. Vishvesh Badheka. Rules and regulations of the quiz were explained at the beginning. It was 30 minutes quiz containing 30 multiple-choice questions. The quiz covered the topics of Welding processes and metallurgy. This quiz was a part of MTech manufacturing students' curriculum as well. The quiz was very well planned and the questions were able to impart a deep understanding of the topic. It was a very informative and knowledge-enriching competition for the participants.</p> |
| Number of participants | 15 |
| Group photograph (2-3) | - |



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The Welding Quiz for Aspirant Welding Engineers

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| Name of the event | The Welding Quiz for Aspirant Welding Engineers |
| Title of the talk/Industry visit: | NA |
| Name of the speaker & Affiliation/Company | NA |
| Date/ time: | 11th December 2021 |
| Venue | IIW-Kolkata |
| Content of the topic (200 words) | Students of (MTMM21) PDEU-IIW students' chapters participated IIW-Kolkata The Welding Quiz for Aspirant Welding Engineers, held on 11th December 2021. Six teams participated at national level, PDEU team won the quiz competition |
| Number of participants | |
| Group photograph (2-3) |  |



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Women in Welding -Young Profession Seminar

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|---|---|
| Name of the event | Women in Welding -Young Profession Seminar |
| Title of the talk/Industry visit: | Hybrid Metal-Polymer Joining Using Different Welding Techniques Ultrasonic Additive Manufacturing Tool Designing for Friction Stir Welding Variants |
| Name of the speaker & Affiliation/Company | Falak Patel (18BME023) Bhumi Patel (18BME010) Namrata Thakkar (18BME063) |
| Date/ time: | 17th December 2021 3:00 to 6:00 p.m. |
| Venue | E001, GF, E Block, PDEU |
| Content of the topic (200 words) | <p>An offline interaction was organized by Dr. Vishvesh Badheka especially for female students of B. Tech and M. Tech present at the campus. All the speakers are students of PDEU as well as a member of IIW Student Chapter. The experts were the students of B.Tech. They are currently in their last year. All three speakers presented one topic each. Each speaker presented a manufacturing process. They also mentioned about the novelty in the field of their topic's work and research. Students queried about the technicalities of the Topics of presentation. They talked in detail about the topic and explained it using their expertise. The session was then open for questions and answers. This meeting also encouraged many female students to be part of the IIW PDEU students' chapter. It was a very enlightening meeting wherein students gained a lot of clarity and understanding.</p> |
| Number of participants | 35 |
| Group photograph (2-3) | - |



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IIW – PDEU Students Chapter
Women in Welding -Young Profession Seminar
(offline)

Hybrid Metal-Polymer Joining Using Different Welding Techniques
by Falak Patel (18BME023)

Ultrasonic Additive Manufacturing
by Bhumi Patel (18BME010)

Tool Designing for Friction Stir Welding Variants
by Namrata Thakkar (18BME063)

Date and Time: - 17th Dec 2021 @ 3:00 – 6:00 PM

Venue : E 001

Contact – Dr. Vishvesh Badheka (Moderator)
Chairman, IIW-PDEU Students Chapter,
Professor and Head,
Mechanical Engineering Department,
School of Technology,
Pandit Deendayal Energy University





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Young Profession Seminar

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| Name of the event | Young Profession Seminar |
| Title of the talk/Industry visit: | Cold Spray technique, Cold Metal Transfer for Additive Manufacturing, Friction & Friction Stir Welding in Electric and Hybrid Vehicles. |
| Name of the speaker & Affiliation/Company | Tapan Shukla (20MMM008) Pankit Shah (20MMD005) Purvank Shah (20MMM003) |
| Date/ time: | 24 th December 2021 3:00 to 6:00 p.m. |
| Venue | E001, GF, E Block, PDEU |
| Content of the topic (200 words) | An offline interaction was organized by Dr. Vishvesh Badheka for students of B. Tech and M. Tech present at the campus. All the speakers were students of PDEU as well as members of IIW. The experts were the students of M.Tech from Design domain. They are currently in their last year. All three speakers presented one topic each. Each speaker presented a manufacturing process. They also mentioned the novelty of their topic's work and research. Students queried about the technicalities of the Topics of presentation. They talked in detail about the topic and explained it expertly. The session was then open for questions and answers. This meeting also encouraged other students to be part of the IIW PDEU students' chapter. It was a very enlightening meeting where students gained a lot of clarity and understanding. |
| Number of participants | 60 |
| Group photograph (2-3) | - |



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IIW – PDEU Students Chapter Presents Young Profession Seminar (Offline)

Cold Spray technique by Tapan Shukla (20MMM008)

Cold Metal Transfer For Additive Manufacturing (20MMD005)

Friction & Friction Stir Welding In Electric And Hybrid Vehicles (20MMM003)

Date and Time: - 24th Dec 2021 @ 3:00 – 6:00 PM

Venue : E 001

Contact – Dr. Vishvesh Badheka (Moderator)
Chairman, IIW-PDEU Students Chapter,
Professor and Head,
Mechanical Engineering Department,
School of Technology,
Pandit Deendayal Energy University



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Workshop on Welding Simulator (Offline)

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| Name of the event | Workshop |
| Title of the talk/Industry visit: | Welding Simulator |
| Name of the speaker & Affiliation/Company | |
| Date/ time: | 25 th January 2022, 3 to 6pm |
| Venue | PDEU |
| Content of the topic (200 words) | <p>An offline workshop was organized by Dr. Vishvesh Badheka for students of B. Tech and M. Tech present at the campus. It was a knowledge gaining session followed by practical exposure with regards to Welding Simulator . They were able to gain insights of welding and hands on experience. The workshop was able to compensate the practical loss to the students due to the last few years. The interaction helped to encourage other students to be part of the IIW PDEU students' chapter.</p> |
| Number of participants | 15 |
| Group photograph (2-3) | - |



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Hand on Training on Sand Casting (Offline)

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| Name of the event | Hand on Training on Sand Casting (Offline) |
| Title of the talk/Industry visit: | Sand Casting |
| Name of the speaker & Affiliation/Company | |
| Date/ time: | 22 nd February 2022 |
| Venue | Mechanical Workshop, C Block, PDEU |
| Content of the topic (200 words) | <p>An offline hands on training was organized by Dr. Vishvesh Badheka for students of B. Tech and M. Tech present at the campus. It was able to provide a helpful practical exposure to the students on Sand Casting. They were able to gain knowledge and experience in the field by working with hand. The session was able to compensate the practical loss to the students due to the last few years. Time was given for questions and answers. The interaction helped to encourage other students to be part of the IIW PDEU students' chapter.</p> |
| Number of participants | 18 |
| Group photograph (2-3) | - |



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IIW – PDEU Students Chapter

Presents Hand on Training on Sand Casting (Offline)

Date and Time: - 22nd Feb 2022 @ 10.00 am– 4.00PM

Venue : Mechanical Workshop

Contact – Dr. Vishvesh Badheka
Chairman, IIW-PDEU Students Chapter,
Professor and Head,
Mechanical Engineering Department,
School of Technology,
Pandit Deendayal Energy University



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Young Engineers' Competition 2020-21

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| Name of the event | Young Engineers' Competition 2020-21 |
| Title of the talk/Industry visit: | NA |
| Name of the speaker & Affiliation/Company | NA |
| Date/ time: | 26th of February 2022 |
| Venue | IIW-India Cochin |
| Content of the topic (200 words) | <p>Rutvik Ghiya, Falak Patel, Nitesh Kumar Jha participated in Young Engineers' Competition 2020-21 organised by IIW-India Cochin Branch in association with IIW-India Foundation on 26th of February 2022, paper titled "Optimization of FSW Parameters for AA6061 and Ny-Ion-6 Dissimilar Joint" has been adjudged as the First Runner-up of Kemppi-Weld Network Award-2021. The Award money is worth Rs.25,000/. Award is sponsored by M/s. Weld Network, Cochin along with the Certificates will be handed over during the Inaugural Session of the National Welding Seminar 2021-22 to be held on Thursday, the 5th May 2022 at Symbiosis Skills & Professional University, Pune in physical mode.</p> |
| Number of participants | |
| Group photograph (2-3) | - |




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One day workshop on Additive Manufacturing with Welding (Offline)

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| Name of the event | One day workshop on Additive Manufacturing with Welding (Offline) |
| Title of the talk/Industry visit: | Additive Manufacturing with Welding |
| Name of the speaker & Affiliation/Company | |
| Date/ time: | 4 th March 2022 |
| Venue | C-103,FF, C Block, PDEU |
| Content of the topic (200 words) | An offline workshop was organized by Dr. Vishvesh Badheka for students of B. Tech and M. Tech present at the campus. It was a knowledge gaining session followed by practical exposure to the students in the field of Additive Manufacturing with Welding. Followed by visit to laser metal 3D printing facility. Purpose of this activity to push M. Tech admissions. They were able to gain insights of welding and hands on experience. The workshop was able to compensate the practical loss to the students due to the last few years. The interaction helped to encourage other students to be part of the IIW PDEU students' chapter. |
| Number of participants | 63 |
| Group photograph (2-3) |  |



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IIW – PDEU Students Chapter

Presents one day workshop
on
Additive Manufacturing with
Welding (Offline)




Date and Time : 4th March 2022 @ 11.00 am– 5.00PM

Venue : C 103 & Mechanical Workshop

Program Schedule : Technical session : 11am-1.30pm
Lab demonstrations : 2-5pm

Contact – Dr. Vishvesh Badheka
Chairman, IIW-PDEU Students Chapter,
Professor and Head,
Mechanical Engineering Department,
School of Technology,
Pandit Deendayal Energy University

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| | | |
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| Membership | >50 for 25 marks | |
| Expert Talks | >4 for 10 marks | 1 |
| Industry Visit | >1 for 10 marks | 1+1 or 1 |
| Quiz | >= 1 for 10 marks | 1 |
| Seminar | Each Half day = 5marks Each full day = 10 marks | 3 |
| Workshop | >=1 Workshop/ Hands of training =10 marks | 6+1=7 |
| Participation & Presentation in branch | >=1 for 10 marks | 2 |



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| National or Young Engineers Event | | |
| Paper Publication | ≥ 1 for 5 marks | |
| Quarterly Report | 1 marks each (x4) | |
| Annual Report | 2 marks | |
| Participation along with presentation to branch AGM | 4 marks | |