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|  | <b>Dr D Y Patil Pratishthan's<br/>Dr. D.Y. Patil Institute of Engineering, Management<br/>and Research, Akurdi, Pune</b> | DI No.:<br><b>ACAD/DI/56 A</b>              |
| <b>Academic Year:</b><br>2022-23  | <b>One Page Activity Report</b>  | <b>Revision : 00<br/>Dated : 20/11/2019</b> |
| <b>Term – I /II</b>   | <b>Logo Design Competition</b>   | <b>Date of Preparation :<br/>07/09/2022</b> |


### Activity Report

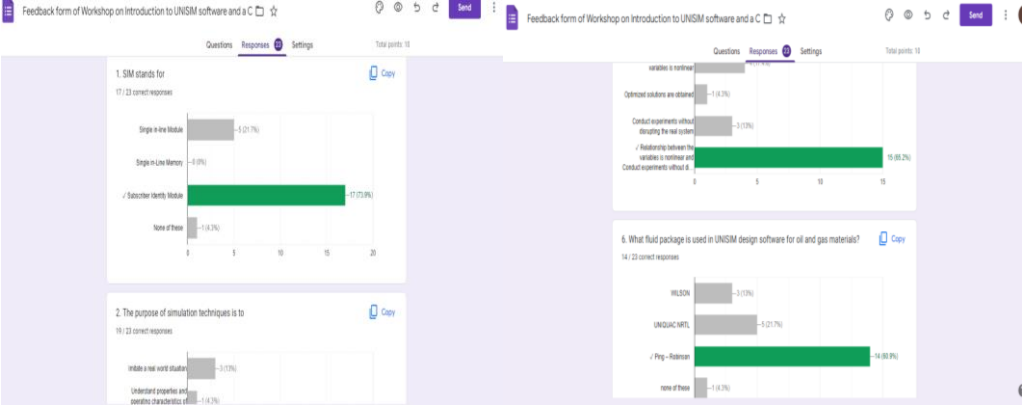
|                   |   |
|-------------------|---|
| <b>Activity</b>   | <b>Workshop on Introduction to UNISIM software and a case study (Dimethyl Ether Production)</b> |
| <b>Department</b> | <b>Chemical Engineering</b>   |

|                          |   |
|--------------------------|---|
| <b>Title</b>             | <b>Workshop on Introduction to UNISIM software and a case study (Dimethyl Ether Production)</b>   |
| <b>Date</b>              | 06/09/2022  |
| <b>Objectives</b>        | <ul style="list-style-type: none"> <li>To impart knowledge about the simulations software, designing of flow sheet.</li> </ul>  |
| <b>Brief Description</b> | In this Session, <b>Mr. Shubham Shinde</b> and <b>Mr. Pankaj Berade</b> (Alumni) introduced about UNISIM Software and a case study. They explained about Steps for chemical Process Design, Selection criteria for reactors and separators, Formation of Process Flow Diagram and P&ID by explaining Onion Model. They explained about software used for drawing flow sheet and for process modeling such as COMSOL, CFD, FLUENT. In a case study, they explained about production process of <b>Dimethyl Ether</b> and how the specific reactor have been chosen, usage of logical operator recycle and modeling of the same by using UNISIM software. |
| <b>Outcome</b>           | <ul style="list-style-type: none"> <li>Able to understand the importance of Onion model in chemical process design.</li> <li>Improves analytical abilities to think on a particular given topic</li> </ul>  |
| <b>CO/PO/PSO Mapping</b> | PO 1, 2, 3, 4, 5, 6, 8, 10, 11, 12  |
| <b>Student Benefited</b> | 42  |
| <b>Glimpses</b>          |   |

|   |  |   |
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**Feedback form of Workshop on introduction to UNISIM software and a C**

Questions    Responses    Settings    Total points: 10

1. SIM stands for

17/23 correct responses

|                             |            |
|-----------------------------|------------|
| Single in-line blocks       | 5 (21.7%)  |
| Single in-Line blocks       | 0 (0%)     |
| ✓ Selection identify blocks | 11 (50.0%) |
| None of these               | 1 (4.3%)   |

2. The purpose of simulation techniques is to

18/23 correct responses

|   |            |
|---|------------|
| Mimics a real world situation                         | 5 (27.8%)  |
| Understand properties and possible characteristics of | 13 (72.2%) |

3. Relationship between variables in realworld

Optical solutions are obtained

Conduct experiments without disrupting the real system


✓ Relationship between variables in realworld and Conduct experiments without di

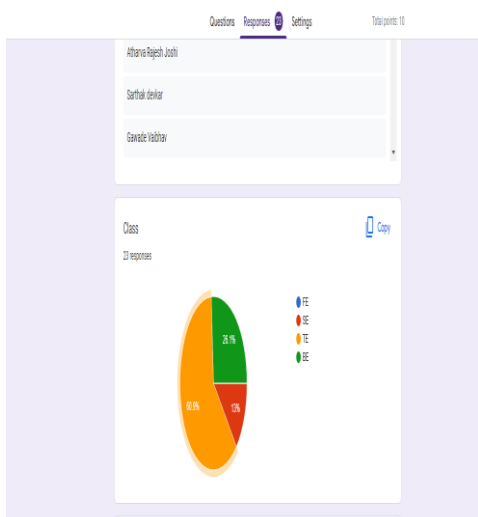
|  |            |
|--|------------|
| Optical solutions are obtained   | 1 (4.3%)   |
| Conduct experiments without disrupting the real system                           | 3 (13.0%)  |
| ✓ Relationship between variables in realworld and Conduct experiments without di | 15 (62.5%) |
| None of these  | 1 (4.3%)   |


6. What fluid package is used in UNISIM design software for oil and gas materials?

14/23 correct responses

|                   |            |
|-------------------|------------|
| WILSON            | 3 (21.4%)  |
| UNIQAC/RTL        | 5 (35.7%)  |
| ✓ Prop - Robinson | 10 (71.4%) |
| None of these     | 1 (7.1%)   |

|   |                                       |   |
|---|---------------------------------------|---|
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**Dr.D.Y. Patil Institute of Engineering Management and Research, Akurdi, Pune**  
**Design and Simulation Club of Chemical Engineering Department**


### CERTIFICATE OF PARTICIPATION


THIS IS TO CERTIFY THAT

## Sukanya Belhekar

Has Successfully Attended "Workshop on Introduction to UNISIM Software and A Case Study (Dimethyl Ether Production)" organised by Design and Simulation Club of DYPIEMR held on 6<sup>th</sup> September 2022.

  
**MRS. PRIYANKA THAKARE**  
FACULTY CO-ORDINATOR

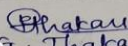
  
**Dr. SHAILESH GHODKE**  
HOD (CHEMICAL DEPARTMENT)


  
**Dr. Mrs. A.V. PATIL**  
PRINCIPAL

Feedback Link:

[https://docs.google.com/forms/d/e/1FAIpQLSeddaNOwszr57xAGGV7wWNBqZlKRq5zjKrG3VEPQ/viewform?usp=sf\\_link](https://docs.google.com/forms/d/e/1FAIpQLSeddaNOwszr57xAGGV7wWNBqZlKRq5zjKrG3VEPQ/viewform?usp=sf_link)

| SN  | Name of Beneficiary   | Department      | Signature         |
|-----|-----------------------|-----------------|-------------------|
| 1.  | Sukanya Belhekar      | Chemical (BE)   | Belhekar          |
| 2.  | Akanksha Prasad       | Chemical (BE)   | Akanksha          |
| 3.  | Sayali Kulkarni       | Chemical (TE)   | SK                |
| 4.  | Srushti Thora         | Chemical (TE)   | ST                |
| 5.  | Saloni Chamare        | Chemical (TE)   | Saloni            |
| 6.  | Chaitali S. Bhalerao  | Chemical (TE)   | Chaitali Bhalerao |
| 7.  | Soham Shinde          | Chemical (TE)   | Soham             |
| 8.  | Pratibha Patil        | Chemical (TE)   | Pratibha          |
| 9.  | Malay Patil           | Chemical (T.E)  | Malay Patil       |
| 10. | Avanti Tukre          | Chemical (S.E)  | Avanti            |
| 11. | Rupali Gore           | Chemical (SE)   | Rupali            |
| 12. | Manasi Joshi          | Chemical (SE)   | Manasi            |
| 13. | Dhruvjay V. Ghorpade  | Chemical (SE)   | Dhruvjay          |
| 14. | Abhishek D. Maudal    | Chemical (SE)   | Abhishek          |
| 15. | Amya Jattore          | Chemical (BE)   | Amya              |
| 16. | Aarman Alam           | Chemical (BE)   | Aarman            |
| 17. | Purshikesh Tuse       | Chemical (T.E.) | Purshikesh        |
| 18. | Shreyashi Bant        | Chemical (T.E)  | Shreyashi         |
| 19. | Aadish Surve          | Chemical (TE)   | Aadish            |
| 20. | Satyajed Patil        | Chemical (B.E)  | Satyajed          |
| 21. | Prathamesh Baldehiwar | Chemical (B.E)  | Prathamesh        |
| 22. | Hemant Patil          | Chemical (T.E)  | Hemant            |

  
**Mrs. Priyanka Thakare**  
Name and Signature of Coordinator  
**REDMI NOTE 10**  
Date: 06/09/22

  
Head of Department  
Date: 06/09/2022 14:11



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Dr. D.Y. Patil Institute of Engineering, Management  
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Logo Design Competition

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07/09/2022

| SN | Name of Beneficiary     | Department     | Signature |
|----|-------------------------|----------------|-----------|
| 25 | Tawkiir Shauif          | Chemical (TE)  |           |
| 24 | Jadhav Shubham Jalindar | chemical (S.E) |           |
| 25 | Khedkar Naikhan Shaji   | chemical (S.E) |           |
| 26 | Gawade Vaibhav          | chemical (S.E) |           |
| 27 | Shaikh Imran            | chemical (TE)  |           |
| 28 | Bhangule Umesh Shridhar | Chemical (TE)  |           |
| 29 | Shlok Mukund babar      | chemical (TE)  |           |
| 30 | Shri Digambar kumar     | chemical (S.E) |           |
| 31 | Kuldip Gargude          | chemical (S.E) |           |
| 32 | Tejas Desale            | Chemical (S.E) |           |
| 33 | Sanket Deshmukh         | chemical (S.E) |           |
| 34 | Dange Arshad            | Chemical (S.E) |           |
| 35 | Abhishhek Kumbhar       | Chemical (S.E) |           |
| 36 | Nilesh Chauhan          | Chemical (S.E) |           |
| 37 | Avinash Mishra          | chemical (S.E) |           |
| 38 | Aditya A. Lamture       | chemical (S.E) |           |
| 39 | Naymare Pooshan         | chemical (S.E) |           |
| 40 | Ashut Desai             | chemical (S.E) |           |
| 41 | Bhosale Amit            | chemical (TE)  |           |
| 42 | Mayur Vohra             | Chemical (S.E) |           |
| 43 | chetan Parne            | chemical (S.E) |           |

F. G. Thakare  
Name and Signature of Coordinator  
Date : 6/9/22

Head of Department  
Date :

Mrs. Priyanka Thakare  
Faculty Coordinator

Dr. Shailesh Ghodke  
Head of Department