**Innovation in teaching learning process**

**[1] Name of the Innovation activity: Video Presentation on Given Topic**

**[2] Course code and course name: 1MEOE304, Industrial Management and Operational Research**

**[3] Program and Class: Mechanical Engineering, T.Y B.Tech**

**[4] Name of Faculty: Mr. S.T. Ghutukade**

**[5] Introduction:**

Begin with a brief introduction to Operations Research (OR) and its significance in problem-solving. Highlight the complexity of OR concepts and the challenges students may face in understanding them through traditional teaching methods.

Videos allow to explain complex OR concepts using visual aids, animations, and real-life examples. This can help students grasp difficult topics more effectively compared to traditional text-based resources. Video content tends to be more engaging and entertaining for students compared to static text or lectures. This gives students the flexibility to navigate through the content at their own pace and focus on areas they find challenging.

 **[6] Motivation/Purpose of innovative technique**

* Enhanced Understanding of Operation Research concept and Numerical.
* Real-World Relevance
* Empowerment Through Presentation
* Interdisciplinary Learning Opportunities
* Promotion of Innovation and Creativity

**[7] Suitability of technique over course content**

Exam preparation videos serve as a valuable supplementary resource alongside textbooks, lecture notes, and practice problems. They provide an additional layer of support for students to reinforce their understanding of OR concepts and prepare more effectively for exams.

 **[8] Procedure Followed**

Students have to prepare notes of selected topic and prepare video presentation. They have to create Youtube Channel and upload their videos on the channel.

Other students can use the topic video for the preparation of examination.

**[9] Evaluation process followed**

Case studies are evaluated on the basis of student’s presentation skill, Content delivered by them.

**[10] Outcome**

1. Enhanced Engagement: new approach increased student interest and participation in OR topics.

2. Improved Understanding: students demonstrated deeper comprehension and application of OR concepts.

3. YouTube's comment section enables students to ask questions, share their thoughts, and provide feedback on the exam preparation videos.





Links of YouTube Channels of Student

|  |  |  |
| --- | --- | --- |
| Name of student  | Topic | YouTube channel Link |
| Aditya Satish Dalvi | Transportation problem - North-west corner rule | <https://youtu.be/1hDZgvY8QfQ> |
| Madhuri Mahadev Metkar  | Assignment Model  | <https://youtu.be/ov-gUJlG1-0> |
| Dhanraj Munj | Sequencing  | <https://youtu.be/0pBuB50suiY> |
| Shreya Satish Naik | Assignment Model | <https://youtu.be/SsoYLpW9gLQ> |
| Sangram Sanjay Patil  | Balanced Assignment problem  | <https://youtu.be/QYOwdpDz-QE> |
| Akanksha Dnyaneshwar Pawar  | Vogel's Approximation  | [https://drive.google.com](https://drive.google.com/) |
| Sana Kalimsab Shaikh | YouTube  | <https://youtu.be/8NnLLMftujw> |
| Nikita Kirankumar Shete  | Northwest corner rule , VAM  | <https://youtu.be/3zsqU0FNsJ0> |
| Tushar Arjun Baraskar  | Assignment module  | <https://drive.google.com/file/> |
| Pol Akshata Kishor  | Assignment model | <https://youtu.be/x1HdbCyuDnc> |
| Vishal Baban Pokale | Assignment Model | <https://youtu.be/hHraQILmfYw> |
| Neha Shrikant Chougule  | Assignment Problem  | <https://youtu.be/MfTW8qsXlpI> |
| Shivam Sangram Desai  | Assignment Model | <https://youtu.be/7ajeB-2pWYQ> |
| Neha Gorakhanath Gaikwad  | Assignment model | <https://youtu.be/X5zTY_6Kro4> |
| Samiksha Suraj Ganvir  | Assignment Problem  | <https://youtu.be/HqV_H3oR7ag> |
| Prathmesh Vikas Ghadage | Assignment Problem | <https://youtu.be/N-ptEGLqEnA> |
| Pratik Pradip Pattanshetti  | Assignment Model | <https://youtu.be/qk8yAK-47nE> |
| Pramod Rajendra Hatpaki  | Assignment Problem | <https://youtu.be/kAI5_5lQm0g> |
| Prasad Satish Herwade | Transportation Problem by Vogel's Method | <https://youtu.be/w1YtnF003ok> |
| Gayatri Satejkumar Jadhav  | Assignment Problem | <https://youtu.be/FhFlbMZ7M9c> |
| Sakshi Jadhav  | Transportation  | <https://youtu.be/Z_pS20nQRHA> |
| Suchitra Pravin Jadhav  | Assignment problem | <https://youtu.be/G2JYiYkdXnA> |
| Onkar Sidling Kabure | Assignment Problem | <https://youtu.be/fnA1wBsFfh4> |
| Megha Kundlik Kavade | Least cost method | <https://youtu.be/TcAKzn7VpG8> |
| Pranav Pandurang Kumthekar | Sequencing | <https://youtu.be/jOadQ3soTiQ> |
| Vaishnavi Vitthal Kumbhar  | Assignment problem | <https://youtu.be/bZ4pshTWTlA> |
| Aniket Sanjay Lokare | Assignment problem | <https://www.youtube.com/watch?v=m9SvFZxTBjU> |
| Nikhil Subhash Mahadik  | Assignment Problem  | <https://youtu.be/Cx5aXEzv7Q4> |
| Shradha Sunil Mali  | Transportation method  | <https://youtu.be/s334eyvL57c> |
| Akash Madhukar Mane | Job sequence with 3 machine | <https://youtu.be/XiveJSKO_TY> |
| Sayali Rajaram Mane | Sequencing | <https://youtu.be/8zqjxG7UHu0> |
| Pruthviraj Prashant Mohite | Types of Barrier  | [https://drive.google.com](https://drive.google.com/) |
| Vaishnavi Vijaysinh Mohite  | Row Minima Problem Solving  | <https://youtu.be/csMMqao0yD4> |
| Pratik Avinash More  | Row minima model  | <https://youtu.be/ctr0dRF-O_Q> |
| Rajesh Shivaji More  |  | <https://youtu.be/5XIEeGuyOJs> |
| Saloni More | Transportation model | <https://youtu.be/pTqmi_TGjhA> |
| Najiya Salim Mulla  | Assignment Problem  | <https://youtu.be/gj6elmwRS0k> |
| Khushnida Nadaf | Assignment problem | <https://youtu.be/VTUs9bFtBS4> |
| Sushant Babasaheb Narale  | Sequencing Problem | <https://youtu.be/EOZvIsz4jEU> |
| Samruddhi Manik Patil | Assignment problem | <https://youtu.be/UKpyt_QMC6I> |
| Shruti Ravindra Patil  | Assignment Problem of Minimisation  | <https://youtu.be/44CnSQvzFuk> |
| Suyesh Jayvant Patil | Decision Theory Problem | <https://youtu.be/acZU2KKgvpA> |
| Yash Sanjay Pawar  | VAM METHOD (TRANSPORTATION MODEL) | <https://youtu.be/PBpXBCFaEJM> |
| Rohan Rajendra Sutar | Decision Tree in IMOR | <https://youtu.be/B95BV4pViHI> |
| Amritesh Tiwari | Hungarian model | <https://youtu.be/EogW44RBJD0> |
| Sanika Yadav | Yes | <https://youtu.be/GuQdOYTuhc0> |
| Rajvardhan Suresh Ghorpade  | Assignment Problem -Hungarian Method  | <https://youtu.be/iGmsoyZmoDM> |
| Nikita Duryodhan Kachare  | Assignment Problem  | <https://youtu.be/cZ5210Nqi2Q> |
| Vaishnavi Suryakant Patane  |  | <https://youtu.be/iiKlHXEmDbI> |
| Prafull Sanjaykumar Chougule | Transportation Model | <https://youtu.be/B95BV4pViHI> |
| Proushthil Ajay Walvekar | Assignment Model | <https://youtu.be/5XIEeGuyOJs> |