# Shri Govindram Seksaria Institute of Technology & Science, Indore

## Department of Computer Engineering

### MINUTES OF MEETING OF DEPARTMENTAL PROGRAM ASSESSMENT AND QUALITY IMPROVEMENT COMMITTEE (DPAQIC)

**Date: 01/07/2025**

A meeting of the DPAQIC in Computer Engineering was held on Tuesday, 1st July 2025 at 3:30pm in hybrid mode.

Following were present:

| 1. | Dr. Anuradha Purohit, HoD, Department of Computer Engineering | Chairperson |
|---|---|---|
| 2. | Mr. V. R. Sathe, IT Consultant, Indore | Member, External Expert |
| 3. | Dr. Namita Mittal, Head, Department of Computer Engineering, MNIT, Jaipur(attended in online mode) | Member, External Expert |
| 4. | Dr. Maya Ingle, Ex- Professor, School of Computer Science, DAVV Indore (attended in online mode) | Member, External Expert |
| 5. | Prof. D.A. Mehta, Professor, Department of Computer Engineering | Member, Senior Professor from the department |
| 6. | Dr. Urjita Thakar, Professor, Department of Computer Engineering | Member, Senior Professor from the department |
| 7. | Dr. Vandan Tewari, Professor, Department of Computer Engineering | Invitee |
| 8. | Mr. Surendra Gupta, Associate Professor, Department of Computer Engineering | Invitee |
| 9. | Mr. Rajesh Dhakad, Associate Professor, Department of Computer Engineering | Invitee |
| 10. | Ms. Neha Mehra, Assistant Professor, Department of Computer Engineering | Invitee |

Following members could not attend the meeting: Dr. Arun Parakh, Member, Senior Professor from other department.

The meeting started with presentation of Vision and Mission of the institute and the department. Agenda of the meeting was discussed next. Deliberations are as follows:

**Item-1: Presenting Action Taken Report of Last DPAQIC Meeting held on 29th Jan 2025.**

The action taken on the recommendations made by the DPAQIC in the meeting held on 29th January 2025 were presented as follows and were well received.

1. Regarding running of both the semesters of B.Tech. in parallel: A committee was formed which after due discussion on all the technical aspects recommended that both the semesters may be run in parallel. Committee recommendations were also approved by Chairman, Academic Council on 1/07/2025.

2. Regarding recruitment of Faculty and staff, discussion with Dean Administration has been done. It was informed that a process to sanction new posts has been initiated. Note regarding sanction of some non-teaching posts for managing labs has been submitted to the Director.

## Item-2: To discuss the performance of department on various criteria in AQAR for NAAC.

- Results of NPTEL exams of semester B were presented. (Annexure-I point [A]). The members suggested that there should be a policy to pay fees (may be 50%) by the institute for students enrolling in NPTEL courses.
- Placement Data for students for the current year was presented (Annexure-I point [B]) member expressed satisfaction.
- Data of pass out students(of 2024-25)Batch was presented (Annexure-I point [C])
- Information about Research Paper Publications by the faculty and students of the department was presented (Annexure-III).
- Information about Expert Talks/Events Organized by the Department was presented (Annexure-II).
- Students Exit Survey Feedback & Analysis was presented. Based on the feedback of student following suggestions were given by the members:
  - Lab facilities need to be enhanced. Hardware and software infrastructure and internet facility should also be improved.
  - Visualization tools should be used wherever possible in labs.
  - Members suggested to purchase lower end systems and subscribe to higher end computing services on cloud if required.
  - Students should be made more aware about various competitive programming platforms and be encouraged to use such global platforms for coding.
  - It was suggested that all final year students should demonstrate their projects in an exhibition open to all students and teachers. The project may be evaluated by industry people/external experts. In this way students will get good input and junior students will also get motivated to carry out good projects.

## Item-3: To review the development of faculty and Lab Staff in last six months.

Data regarding Faculty Development Programmes attended (Annexure-IV) and research paper published by the faculty members, was presented; the same was appreciated by the members.It was also informed that three faculty members of the department have registered for Ph.D.

## Item-4: To discuss the issues related to academics and resources in the department.

Current requirement for faculty, lab staff and computing resources was presented.
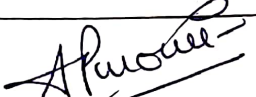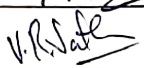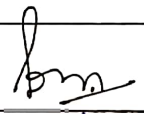
- Experts emphasized that the number of faculty in the department must be according to 15:1 SFR.
- Committee also shown serious concern over the deficit of resources. The members suggested that the additional computing resources should be purchased immediately. The student to computer ratio should be 1:1.
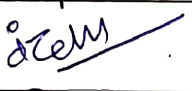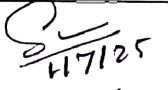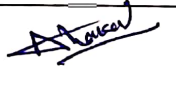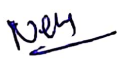- E-waste disposal policy must be in-place and old unusable computers be disposed off according to this policy.
- Committee suggested that skill-based courses may be introduced in the curriculum.
- Mini Projects should be assigned in various subjects. Such projects help in better learning and enhancing the skills of the students.

**Any other item with the permission of Chair**

No other item was discussed.

The meeting concluded with thanks to all the members.

**Signatures of Members:**

| 1. | Dr. Anuradha Purohit, HoD, Department of Computer Engineering | *(signature)* |
|----|----|----|
| 2. | Mr. V. R. Sathe, IT Consultant, Indore | *(signature)* |
| 3. | Dr. Namita Mittal, Head, Department of Computer Engineering, MNIT, Jaipur | Attended Online |
| 4. | Dr. Maya Ingle, Professor, School of Computer Science, DAVV Indore | Attended Online |
| 5. | Prof. D.A. Mehta, Professor, Department of Computer Engineering | *(signature)* |
| 6. | Dr. Urjita Thakar, Professor, Department of Computer Engineering | *(signature)* |
| 7. | Dr. Vandan Tewari, Professor, Department of Computer Engineering | *(signature)* |
| 8. | Mr. Surendra Gupta, Associate Professor, Department of Computer Engineering | *(signature)* 4|7|25 |
| 9. | Mr. Rajesh Dhakad, Associate Professor, Department of Computer Engineering | *(signature)* |
| 10. | Ms. Neha Mehra, Assistant Professor, Department of Computer Engineering | *(signature)* |

## [A] NPTEL Results of Semester 'B'
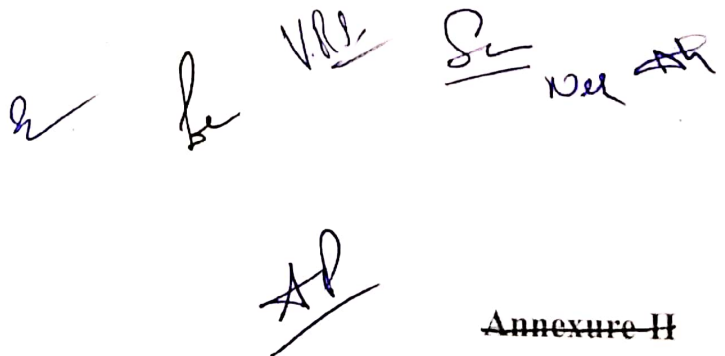
| S.No. | Subject Name | Subject Code | Number of Students Enrolled | Pass Status | TOP 1% | TOP 5% |
|-------|-------------|-------------|------------------------------|-------------|--------|--------|
| **IV YEAR SEM B** | | | | | | |
| 1 | Data Mining | CO44608 | 104 | 103 | 9 | 27 |
| 2 | Introduction to Soft Computing | CO44609 | 104 | 104 | 10 | 7 |
| **III YEAR SEM B** | | | | | | |
| 1 | Data Science and Engineering | CO34601 | 104 | 104 | 18 | 24 |

## [B] Placement Record

- Number of Students Eligible & Registered: 71
- Number of Students Placed%: 94%
- Highest CTC: 30.0 LPA
- Average CTC: 10.06 LPA
- Lowest CTC: 3.6 LPA

## [C] Passing Out Students 2024-25 Batch

- Number of Students Appeared in Exams-    102

- Number of Students Passed out-    96

## Expert Talks/Events Organized by the Department

| Name of the Capacity Development and Skill Enhancement programme | Year of implementation | Number of students enrolled | Name of the agencies/consultants involved with contact details, if any |
|---|---|---|---|
| Expert Lecture on "Generative AI" | 16th January 2025 | 150 | Dr. Satyendra Singh Chouhan, Asst. Prof., MNIT, Jaipur |
| Two Days Workshop on Entrepreneurial Design Thinking | 24th & 31st January 2025 | 83 | Dr. Neeraj Jain, Professor, SGSITS, Indore. Innovation Ambassador, MIC. |
| Alumni Lecture on Agile Mindset for IT Development | 25th January 2025 | 96 | Mr. Deepesh Singh, Developer, Coforge Ltd. Pune. Working as a Project Head Engineering. |
| Industrial visit to"-Rich Seeds Pvt. Ltd. Ujjain, Madhya Pradesh" | 17th February 2025 | 61 | Mr. Jagdish, HiRich Seeds, Ujjain |
| ExpertTalk on "Future Careers through Cyber Security, Skills & Mentorship " | 7th March 2025 | 65 | Mr. Sachin Walia (Alumni, SGSITS Batch 1993) |
| Workshop on "Basics of IPR and Patent Drafting" | 28th April 2025. | 30 | Mr. Suresh Paswan (Associate Professor, Pharmacy Department, SGSITS, Indore) |

## Research Paper Publications

- Journal Papers- 18
- International Conference Papers- 2

| S.No | Name of Faculty | Title of Paper | Published | Date |
|---|---|---|---|---|
| 1. | Dr. D. A. Mehta | " A Review of Machine Learning Based Approaches for Solar Irradiation Forecasting", | International Journal of Computer Trends & Technology | Nov. 2024 |
| 2. | Dr. D. A. Mehta | "Thermal Aware Process Scheduling for Multicore Processors," | Transaction on Engineering and Computer Science, | 6 December 2024 |
| 3. | Dr. D. A. Mehta | " Origin Aware Dynamic Load Balancer for performance Enhancement of NUMA Multiprocessor Systems," | International Journal of Engineering Trends & Technology | 2 Feb 2025 |
| 4. | Dr. D. A. Mehta | "Enhancement of Underwater Images Using Neural Style Transfer," | International Journal of Computer Trends & Technology | 4 April 2025 |
| 5. | Prof Surendra Gupta | A comprehensive survey on techniques for numerical similarity measurement | Expert Systems with Applications Journal | May 2025 |
| 6. | Dr Urjita Thakar | A comprehensive survey on techniques for numerical similarity measurement | Expert Systems with Applications Journal | May 2025 |
| 7. | Dr Urjita Thakar | Study of Meta-Learning Attempts to Select Algorithm for Hard Combinatorial Optimisation Problems | International Journal of Intelligent Engineering Informatics | 2025 |
| 8. | Dr Urjita Thakar | Feature Selection for Capacitated Vehicle Routing Problem Algorithm Selection | 2024 IEEE 4th International Conference on ICT in Business Industry & Government (ICTBIG) | Dec 2024 |
| 9. | Dr Urjita Thakar | An Automated time table report generation system for educational Institution | IJTE(ISTE) | June 2025 |
| 10. | Dr. Anuradha Purohit | Unveiling the Impact of Extreme Learning Machine in the Defence and Military Sector | Defence Science Journal | July 2024 |

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| 10. | Dr. Anuradha Purohit | Unveiling the Impact of Extreme Learning Machine in the Defence and Military Sector | Defence Science Journal | July 2024 |
| 11. | Dr. Anuradha Purohit | An Efficient Visual Tracking System Based on Extreme Learning Machine in the Defence and Military Sector | Defence Science Journal | September 2024 |
| 12. | Dr. Anuradha Purohit | TMT-Labeled Annotated Spectra Prediction using Deep Neural Network, | 2024 IEEE 16th International Conference on Computational Intelligence and Communication Networks (CICN) | Dec 2024 |
| 13. | Dr. Anuradha Purohit | Localization of try block and generation of catch block to handle exception using an improved LSTM | Cluster Computing journal, Springer | July 2024 |
| 14. | Dr. Anuradha Purohit | Multimodal Emotion Recognition Using BERT and ANN: A Hybrid Deep Learning Approach | International Journal of Scientific Research & Engineering Trends | Dec 2024 |
| 15. | Mr. Chandresh Tatawat | A NOVEL DEEP LEARNING-BASED CLASSIFICATION APPROACH FOR THE DETECTION OF HEART ARRHYTHMIAS FROM THE ELECTROCARDIOGRAPHY SIGNAL | Scalable Computing: Practice and Experience Journal | Jan 2025 |
| 16: | Mr. Chandresh Tatawat | PROACTIVE CYBER DEFENSE: A FAR-REACHING STUDY ON REAL-TIME INTRUSION DETECTION FRAMEWORKS USING MACHINE LEARNING | Journal of Tianjin University Science and Technology | Feb 2025 |
| 17. | Ms. Mamta Gupta | Blik Mate: A Smart Screen Control Application to Mitigate Digital Eye Strain in Children | International Journal on Science and Technology (IJSAT) | May 2025 |
| 18. | Ms. Teena Dubey | | | |
| 19. | Ms. Teena Dubey | Integrating Cloud-Based Power Factor Correction with ANFIS-Controlled UPQC for Power Quality Enhancement | International Journal of Scientific Research in Engineering and Management (IJSREM) | June 2025 |
| 20. | Ms. Teena Dubey | A Survey on Machine Learning Handling Imbalanced Dataset in Credit Card Fraud | International Journal of Scientific Research & Engineering Trends | Dec 2024 |

FDP/STTP/Workshops Attended by faculty members

| Name of Teacher who attended the programme | Title of the programme | Duration (from - to) (DD-MM-YYYY) |
|---|---|---|
| Dr.Urjita Thakar | FDP on Cloud Computing | 07-2024 to 10-2024 |
| Dr.Urjita Thakar | Expert talk on Gender Equality in digital Transformation | 20/05/2025 |
| Dr.Anuradha Purohit | One day Workshop on Technological Development for Sustainable Agriculture | 27/01/2025 |
| Mr.Surendra Gupta | FDP on Artificial Intelligence in Practice, (MMTTC), IISER Bhopal | 27/09/24 to 04/10/24 |
| Mr.Surendra Gupta | Course on PyTorch for AI | 01/06/25 to 15/06/25 |
| Mr.Surendra Gupta | Course on Infy springboard- Angular | 01/06/25 to 15/06/25 |
| Mr.Surendra Gupta | Python for Data Science, IBM | 01/06/25 to 15/06/25 |
| Ms.Neha Mehra | FDP on Mastering Generative AI: From Basics to Advanced Applications | 09-06-2025 to 13-06-2025 |
| Ms.Neha Mehra | FDP on Data Analytics with Python | 20-01-2025 to 11-04-2025 |
| Ms.Neha Mehra | FDP on Patent Filing, Technology Transfer, and Research Funding | 03-03-2025 to 07-03-2025 |
| Ms.Neha Mehra | Energy Literacy Training | 16-12-2024 |
| Ms.Neha Mehra | Workshop on Applications of Deep Learning and Generative AI in Computer Vision and NLP Tasks | 02-12-2024 to 06-12-2024 |
| Ms.Teena Dubey | FDP on Data Analytics with Python | 20-01-2025 to 11-04-2025 |
| Ms.Teena Dubey | NPTEL Course on Data Analytics with Python | 20-01-2025 to 11-04-2025 |
| Ms.Teena Dubey | FDP on Energy Literacy Training | 26-11-2024 |
| Ms.Teena Dubey | FDP on Moodle | 10-07-2024 to 17-07-2024 |
| Ms.Mamta Gupta | FDP on Moodle | 10-07-2024 to 17-07-2024 |
| Ms.Mamta Gupta | NPTEL Course on Data Analytics with Python | 20-01-2025 to 11-04-2025 |
| Ms.Mamta Gupta | FDP on Energy Literacy Training | 26-11-2024 |
| Mr.Chandresh Tatawat | FDP on Generative AI & Use Cases | 11-01-2025 to 02-02-2025 |
| Mr.Ranjeet Vishwakarma | FDP on Moodle Learning Management System | 10-07-2024 to 17-07-2024 |
| Ms.Himani Mishra | FDP on Moodle | 10-07-2024 to 17-07-2024 |