

SHRI G.S. INSTITUTE OF TECHNOLOGY & SCIENCE, INDORE

NOTE SHEET

File/Ref.No.: Page No.:

Department of Mechanical Engineering

Date: 10 Jan 2019

A DPAQIC is to be constituted for the undergraduate program. Following member are recommended for the same.

1. Dr. R.K. Porwal (Chairman)
2. Dr Ashesh Tiwari (External Expert, Professor IET DAVV)
3. Dr G.D. Thakar (Professor IPE Deptt)
4. Mr. Anand Kumrawat (Industry Expert)
5. Dr. S S Manepatil (Professor)
6. Dr. B.S. More (Associate Professor)

Please approve the above committee

Raj Kumar
HMED

Submitted to the Director

Approved as above
[Signature]

Shri G.S. Institute of Technology and Science, Indore

Department of Mechanical Engineering

Minutes of Meeting of DPAQIC

A meeting of DPAQIC of Mechanical Engineering department was held on 16 April 2019 at 11.30 AM. Following members attended the meeting:

- | | |
|-----------------------|---------------------------------------|
| 1. Dr. R.K. Porwal | (Chairman) |
| 2. Dr. Ashesh Tiwari | (External Expert, Professor IET DAVV) |
| 3. Dr. G.D. Thakar | (Professor IPE Deptt) |
| 4. Mr. Anand Kumrawat | (Industry Expert) |
| 5. Dr. S S Manepatil | (Professor) |
| 6. Dr. B.S. More | (Associate Professor) |

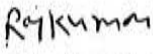
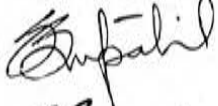

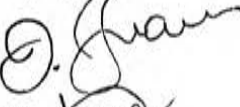

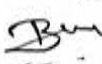
Following items were reviewed:

Item 1: After review of scheme, the committee recommended to introduce a subject on industrial engineering and production management in B.Tech. curriculum.

Item 2: The committee recommended to update the syllabi according to the requirement of GATE and other competitive examinations.

Item 3: The students can be advised to select elective subjects in final year from online MOOCs courses from NPTEL, SWAYAM etc.

Signatures of members:-

- | | |
|-----------------------|---|
| 1. Dr. R.K. Porwal |  |
| 2. Dr. S S Manepatil |  |
| 3. Dr. G. D. Thakar |  |
| 4. Dr. Ashesh Tiwari |  |
| 5. Mr. Anand Kumrawat |  |
| 6. Dr. B.S. More |  |

Submitted to Chairman, BOS

Shri G.S. Institute of Technology and Science, Indore

Department of Mechanical Engineering

Minutes of Meeting of DPAQIC

A meeting of DPAQIC of Mechanical Engineering department was held on 23 July 2020 at 12.00 PM. Following members attended the meeting:

- | | | | |
|---------------------|-------------------------|-----------------------|-------------------|
| 1. Dr. R.K. Porwal | (Chairman) | 2. Dr. S S Manepatil | (Member) |
| 3. Dr Ashesh Tiwari | (External Expert) | 4. Dr. B.S. More | (Member) |
| 5. Dr G.D. Thakar | (Member from I&P Deptt) | 6. Mr. Anand Kumrawat | (Industry Expert) |

Following items were reviewed:

Item 1: It was felt that some of the subjects from emerging area like Artificial Intelligence, Data Science, 3-D Printing and Robotics should be taught to the students to make them ready for taking challenge ahead.

The committee recommends to include above subjects in the scheme.

Signatures of members:-

- | | |
|-----------------------|---------------------|
| 1. Dr. R.K. Porwal | <i>Rajkumar</i> |
| 2. Dr. S S Manepatil | <i>S. Manepatil</i> |
| 3. Dr. G. D. Thakar | <i>GD</i> |
| 4. Dr. Ashesh Tiwari | <i>A. Tiwari</i> |
| 5. Mr. Anand Kumrawat | <i>Anand</i> |
| 6. Dr. B.S. More | <i>B.S. More</i> |

Submitted to Chairman, BOS

Shri G.S. Institute of Technology and Science, Indore

Department of Mechanical Engineering

Minutes of Meeting of DPAQIC

A meeting of DPAQIC of Mechanical Engineering department was held on 15 Jan 2021 at 03:30 PM. Following members attended the meeting:

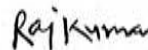
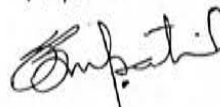

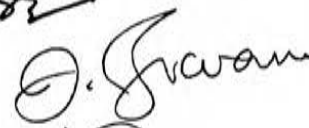

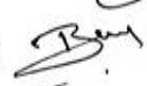
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|---------------------|------------------------|-----------------------|-------------------|
| 1. Dr. R.K. Porwal | (Chairman) | 2. Dr. S S Manepatil | (Member) |
| 3. Dr Ashesh Tiwari | (External Expert) | 4. Dr. B.S. More | (Member) |
| 5. Dr G.D. Thakar | (Member from I&P Dept) | 6. Mr. Anand Kumrawat | (Industry Expert) |

Following items were discussed:

Item 1: It is observed by the committee that the Power plant and energy management subject requires some prerequisite and recommended to move this subject in final year from third year and a new subject on steam and gas power system may be introduced in place of above.

Item 2: The committee recommended to update the syllabus of Design of Machine Elements course of B.Tech in Industrial and Production Engineering.

Signatures of members:-

- | | |
|-----------------------|---|
| 1. Dr. R.K. Porwal |  |
| 2. Dr. S S Manepatil |  |
| 3. Dr. G. D. Thakar |  |
| 4. Dr. Ashesh Tiwari |  |
| 5. Mr. Anand Kumrawat |  |
| 6. Dr. B.S. More |  |

Submitted to Chairman, BOS

Shri G.S. Institute of Technology and Science, Indore

Department of Mechanical Engineering

Minutes of Meeting of DPAQIC

A meeting of DPAQIC of Mechanical Engineering department was held on 12 Aug 2021 at 03:30 PM. Following members attended the meeting:

1. Dr. R.K. Porwal	Professor and Head	(Chairman)
2. Dr Ashesh Tiwari	Professor & Head IET DAVV Indore	(External Expert)
3. Mr. Anand Kumrawat	(Industry Expert)	
4. Dr. S S Manepatil	Professor	(Member)
5. Dr G.D. Thakar	Professor IPE Deptt	(Member Allied Deptt)
6. Dr. B.S. More	(Member)	

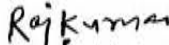

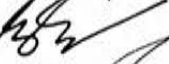
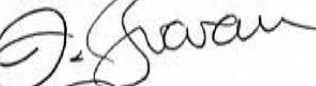

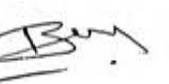
Following items were discussed:

Item 1: In the light of AICTE model curriculum, it was proposed to introduce subjects on Constitution of India, Environmental Science and knowledge of Indian knowledge tradition in B.Tech. Mechanical Engineering program.

Item 2: The committee recommended to modify the syllabi and course outcomes of following courses

- | | |
|--|---|
| 1. ME26008 Material Science, | 5. ME46xxx Robotics |
| 2. ME46051 Vibration and Noise Control | 6. ME46xxx Hydraulic pneumatic and fluidic control+ |
| 3. ME46218 Mechatronics and Automation | 7. ME46xxx Finite element methods |
| 4. ME46xxx Advance Machine Design | |

Signatures of members:-

- | | |
|-----------------------|---|
| 1. Dr. R.K. Porwal |  |
| 2. Dr. S S Manepatil |  |
| 3. Dr. G. D. Thakar |  |
| 4. Dr. Ashesh Tiwari |  |
| 5. Mr. Anand Kumrawat |  |
| 6. Dr. B.S. More |  |

Submitted to Chairman, BOS

**Shri G.S. Institute of Technology and Science Indore
Department of Mechanical Engineering**

MED/DPAQIC/2022

Date: 16th June 2022

**Minutes of Department Program Assessment & Quality Improvement
Committee (DPAQIC) Meeting**

Name of Program: B. Tech. Mechanical Engineering

A meeting of DPAQIC of B. Tech. Mechanical Engineering program was held on 16th June 2022 at 12:00 PM in the department Seminar Room. Following items were discussed-

Item 1: The committee members discussed vision & mission of department and PEO's and PSO's of the program and recommended the same. The mission and vision statements and PEO's and PSO's statements are enclosed.

Item 2: The committee also discussed competency level and associated performance indicator for all the program outcomes as suggested in Examination Reform Policy 2018 of AICTE and recommended the same for the department program.

Signature of Member

- | | | | |
|---|--------------------|--|--|
| 1 | Dr. R.K. Porwal | Chairman |  |
| 2 | Dr. Ashesh Tiwari | External expert,
IIT DAVV Indore |  |
| 3 | Mr. Pramod Joshi | Industry expert,
CEO, SV Industries,
Pithampur |  |
| 4 | Dr. A. Dapati | Professor, IPED |  |
| 5 | Dr. S.S. Manepati | Professor, MED |  |
| 6 | Dr. Shalini Tawari | Professor, MED |  |

Submitted to: Chairman BOS Mechanical Engineering

Copy to: Dean Academic

Shri G S Institute of Technology and Science
Department of Mechanical Engineering (MED)

Departmental Program Assessment and Quality Improvement Committee (DPAQIC)

Minutes of Meeting



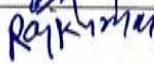
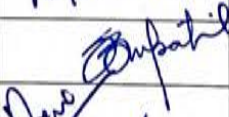

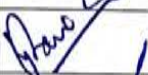


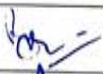

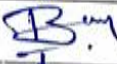

A DPAQIC was held on **15-December 2022 at 3:00PM** in mixed mode, online by appearing in person on google meet and offline by appearing in the conference room of the department of Mechanical Engineering. The aim was to formulate systematic approach and planning for the assessment of the following four programmes run by the department.

1. B.Tech. in Mechanical Engineering (BT)
2. M.Tech. with specialization in Mechanical Engineering Design (design)
3. M.Tech. with specialization in Thermal Engineering (thermal)
4. M.Tech. with specialization in CAD/CAM/CAE (CAD)

The recommendation of DPAQIC are as follows

1. Lifelong learning is essential in all subjects.
DPAQIC recommend to include this feature and their correlation in Course Outcomes (COs) of all subjects.
2. It is required to reframe the Course Outcomes (COs) in some subject and accordingly their mapping with Program Outcomes (POs) has to be done to make the COs measurable.
DPAQIC recommends to revise COs to make them measurable and suggest to propose them in the ensuing BoS.
3. Looking into release of National Education Policy (NEP) by GoI, department need to revise the syllabus of all the subjects. Starting with first year subject this year, it is needed to split engineering drawing into two parts;
 - a. theory with code and nomenclature as ME 10149 Engineering Graphics, and
 - b. practical with code and nomenclature as ME10153 Engineering Graphics Laboratory.
 DPAQIC suggest to prepare syllabi without much change in content and propose in ensuing BoS.
4. In the 8th semester of B.Tech. there are two electives. Each elective has a list of subjects. Students are given the opportunity to select one subject in each elective according to their interest.
DPAQIC approves inclusion of Rotodynamics as a subject in one of the electives for student choice. It is suggested to prepare its syllabus and proposed in ensuing Board of Studies (BoS).

Signature of the members:

Prof. Basant Agrawal Chairman and Head MED		Prof. S M Narulkar Member, Thermal	
Prof. R. K. Porwal Convenor		Prof. Rakesh Khare Member, Design	
Prof. Smita Manepatil Member, BT		Prof. G D Thakar Member, CAD	
Prof. M. L. Jain Member, CAD		Prof. A. Dalpati Member, BT	
Prof. Sudhir Tiwari Member, BT		Prof. Ashesh Tiwari, Expert Member, BT, Design, CAD	
Prof. B. R. Rawal Member, CAD		Prof. Govind Maheshwari Expert Member, Thermal	
Dr. Vinod Pare Member, Design		Mr. Pramod Joshi, Expert Member, BT, Design, CAD	
Dr. Bhupendra S. More Member, Thermal		Mr. K Kulkarni Expert Member, Thermal	
Dr. Manoj Chouksey Member, Design			

Shri G S Institute of Technology and Science
Department of Mechanical Engineering (MED)

Departmental Program Assessment and Quality Improvement Committee (DPAQIC)

Call for Meeting and Agenda

Date: 13 December 2022


With reference to Dean/715 dated 23 November 2022, a meeting of Department Program Assessment and Quality Improvement Committee (DPAQIC) is called on 15 December 2022 at 03:00 PM in the mixed mode; offline in department conference room and online through google meet. The aim is to formulate systematic approach and planning for the assessment of the following four programmes run by the department.

1. B.Tech. in Mechanical Engineering (BT)
2. M.Tech. with specialization in Mechanical Engineering Design (design)
3. M.Tech. with specialization in Thermal Engineering (thermal)
4. M.Tech. with specialization in CAD/CAM/CAE (CAD)



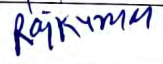


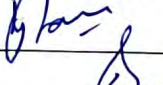

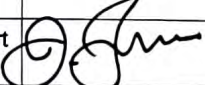




Agenda of the meeting are as follows:

1. Track the results of Program Outcomes (POs), Program Specific Outcomes (PSOs) and Program Educational Objectives (PEOs), and plan the steps required to achieve POs, PSOs and PEOs.
2. Interact with stakeholders to facilitate the achievement of POs, PSOs, and PEOs, maintain track record and current status.
3. Evaluating program effectiveness and proposing necessary changes.
4. Motivating the faculty and students to attend workshops, conferences, developing projects, working models, paper publications and participate in research activities.
5. Any other item with permission of chair.

All the members are requested to attend the meeting.


Dr Basant Agrawal
Chairman DPAQIC and Head MED

Signature of the members:

Prof. Basant Agrawal Chairman and Head MED		Prof. S. M. Narulkar Member, Thermal	
Prof. R. K. Porwal Convenor		Prof. Rakesh Khare Member, Design	
Prof. Smita Manepatil Member, BT		Prof. G. D. Thakar Member, CAD	
Prof. M. L. Jain Member, CAD		Prof. A. Dalpati Member, BT	
Prof. Sudhir Tiwari Member, BT		Prof. Ashesh Tiwari, Expert Member, BT, Design, CAD	
Prof. B. R. Rawal Member, CAD		Prof. Govind Maheshwari Expert Member, Thermal	
Dr. Vinod Pare Member, Design		Mr. Pramod Joshi, Expert Member, BT, Design, CAD	
Dr. Bhupendra S. More Member, Thermal		Mr. K. Kulkarni Expert Member, Thermal	
Dr. Manoj Chouksey Member, Design			

Mechanical Engineering Department

Date: 7 July 2023

Minutes of DPAQIC (UG)

A meeting of Department Program Assessment & Quality Improvement Committee (DPAQIC) of Mechanical Engineering Department was held on 07 July 2023 at 03:00 PM in department conference room. Following members attended the meeting-

- | | |
|----------------------|----------------------|
| 1. Dr. B.R. Rawal | 4. Dr. S S Manepatil |
| 2. Dr. Ashesh Tiwari | 5. Dr. Sudhir Tiwari |
| 3. Dr. A. Dalpati | |

Mr. Pramod Joshi (Industry Expert) could not attend the meeting.

Following items were discussed:

Item 1: Implementation of National Education Policy (NEP) 2020 in the B.Tech. program in Mechanical Engineering was discussed. The committee recommended to update the scheme and curriculum of the program as per requirement of NEP.

Item 2: The attainment of COs of few subjects was discussed. The committee recommended to improve the participative learning. They also suggested to effectively conduct remedial classes for slow learners.

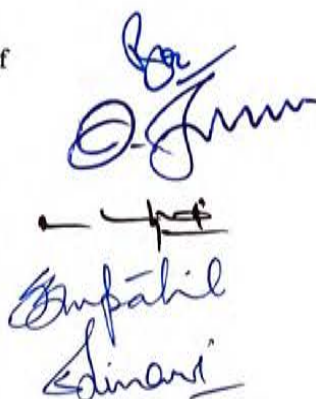
Item 3: The committee suggested to review COs of all subjects

Item 4: The committee recommended to offer MOOCs courses from Swayam/ NPTEL to students as per institute policy.

Item 5: The committee also recommended to incorporate contents which help students to develop skill and employability

Signature of Members-

- | | | |
|---|-------------------|----------------------------------|
| 1 | Dr. B.R. Rawal | Chairman & Head of Dept. |
| 2 | Dr. Ashesh Tiwari | External expert, IET DAVV Indore |
| 3 | Dr. A. Dalpati | Professor, IPED |
| 4 | Dr. S S Manepatil | Professor, MED |
| 5 | Dr. Sudhir Tiwari | Professor, MED |



Submitted to Chairman BOS Mechanical Engineering

Mechanical Engineering Department

Date: 7 July 2023

Minutes of DPAQIC (PG)

A meeting of Department Program Assessment & Quality Improvement Committee (DPAQIC) of Mechanical Engineering Department was held on 07 July 2023 at 03:00 PM in department conference room. Following members attended the meeting-

1. Dr. B.R. Rawal
2. Dr. Ashesh Tiwari
3. Dr. Rakesh Khare
4. Dr. Vinod Pare
5. Dr. Manoj Chouksey





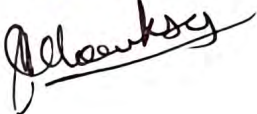
Mr. Pramod Joshi (Industry Expert) could not attend the meeting.

Following items were discussed:

Item 1: The committee discussed the nil admission during session 2022-23 in the M.Tech program. They recommended to incorporate the contents which help students to develop skills as per industry requirements. They recommended to add elective subjects from emerging areas like Artificial Intelligence and Machine learning.

Item 2: The attainment of COs and POs of students admitted during 2021-22 was discussed.

Signature of Members-

- | | | | |
|---|--------------------|---|--|
| 1 | Dr. B.R. Rawal | Chairman and Head,
Mechanical Engineering |  |
| 2 | Dr. Ashesh Tiwari | External expert Professor, IET
DAVV Indore |  |
| 3 | Dr. Rakesh Khare | Professor, CEAMD |  |
| 4 | Dr. Vinod Pare | Professor |  |
| 5 | Dr. Manoj Chouksey | Professor |  |

Submitted to Chairman BOS Mechanical Engineering