

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE GWALIOR

A Government Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV Bhopal



A Report of
In-House Workshop
on
“Addressing the Special Needs of Slow and Advanced Learners
Through Teaching-Learning”
17 February, 2022

Coordinators

Dr A K Wadhvani
Dr Shishir Dixit
Prof Kuldeep Kumar Swarnkar



DEPARTMENT OF ELECTRICAL ENGINEERING

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1. Schedule

- **Date of In-House workshop:** 17th February 2022
- **Time:** From 11.30am onwards
- **Link :** <https://meet.google.com/bms-iagg-rod>

2. Objective

- To propose solutions/measures for improving the status of learners, such that their learning goals are achieved as per Digital Teaching Action Plan of the Institute.

3. Salient points of discussion/deliberations

The workshop followed by panel discussion has been conducted in the department in which the faculty member shared their efforts along with outcomes on the following points: -

- Interactive doubt clearing classes.
- Needs of slow learners through question/answer model.
- Personalized attention through phone call/whats app/email etc as per the need.
- Guidance sessions related to examinations.
- Attending to any other special needs as per the response/feedback received.
- Fast learners & synchronous learners are motivated to help learners with difficulties

In addition to above the faculty member has also shared uses of modern tools, innovative methodology for teaching-learning process and learner eccentric specific approaches with relevant supporting data.

The report of one faculty member is attached in annexure-1.

- Interactive doubt clearing classes.
 - One slot is available for doubt clearing, more classes are arranged as per the need of the students.
- Needs of slow learners through question/answer model.
 - The identification of the learners according to: Mid Semester Examinations, Quizzes, Assignments, Attendance
 - Solution of Mid Semester Examinations, Quizzes, Assignments
- Personalized attention through phone call/whats app/email etc as per the need:
 - As per need of student (raised by E-Mail/whatsapp/phone etc)

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- Guidance sessions related to examinations
 - In Orientation programme
 - Class coordinators counselling sessions, time to time
 - Before the schedule of each exam
 - Old question papers, model answers
- Attending to any other special needs as per the response/feedback received
 - As and when needed by the students.
- Fast learners & synchronous learners are motivated to help learners with difficulties
 - Activity based assignment are given to the student group
 - Discussion on the competitive based conceptual questions
 - Guidance for research paper writing

4. Outcomes

- In the workshop and in panel discussion has shared their efforts and difficulties as well for which the solution has been discussed. In this way, faculty members have become familiar with new ideas, new initiatives and strategies to address the need of slow and advanced learners.



Prof. Kuldeep K. Swarnkar
Coordinator



Dr. Shishir Dixit
Coordinator



Dr A. K. Wadhvani
Coordinator

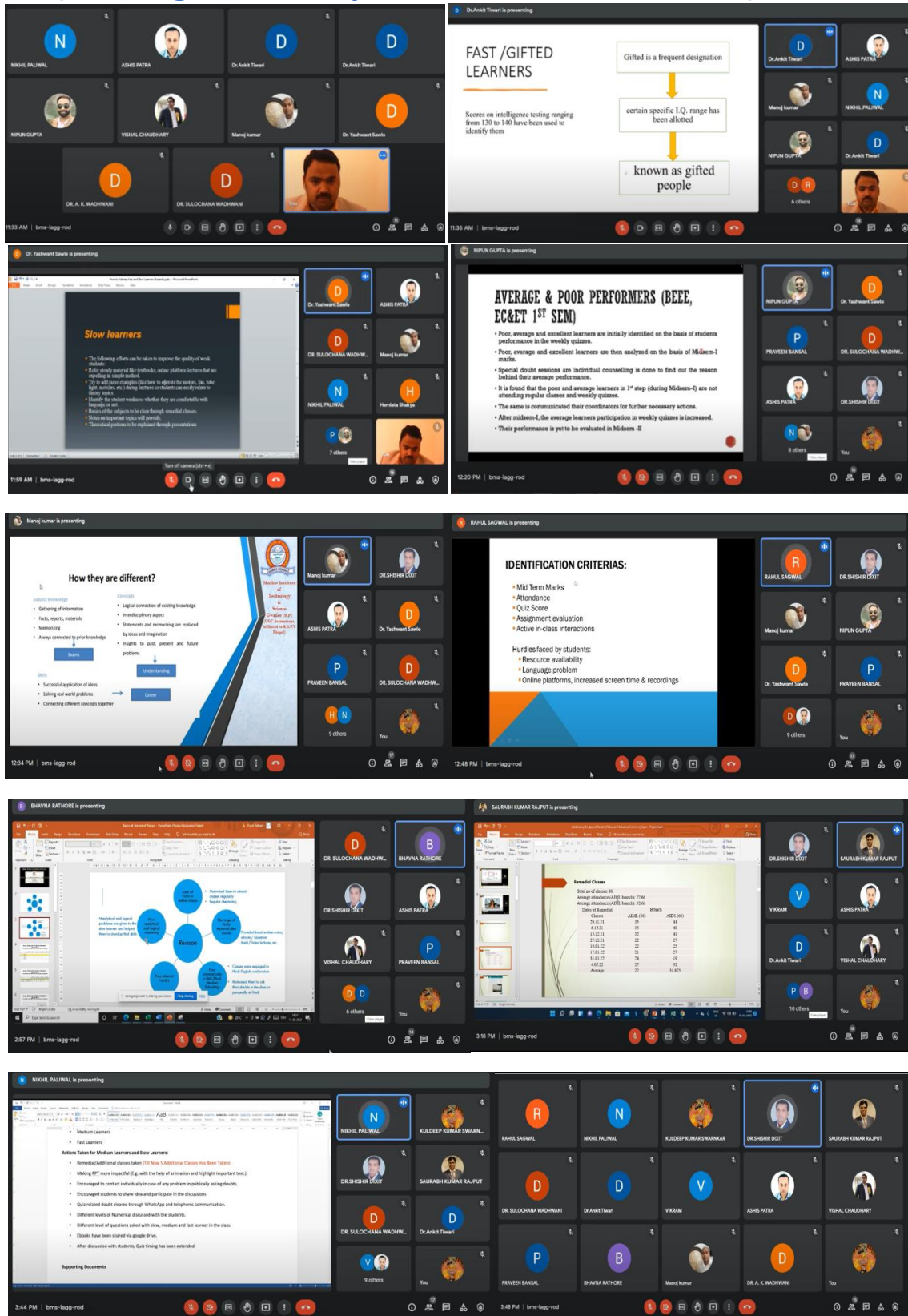


Dr. Sulochana Wadhvani
Prof. & Head, EE

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5. Photographs/screenshots (geotagged) & Attendance (with signatures if possible, else screenshot)



[Video Link](#)

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Annexure-I

Report

Report of online presentation given by **Prof. Saurabh Kumar Rajput** in In-house workshop “Addressing the Special Needs of Slow and Advanced learners through Teaching-Learning” organized by department dated 17.02.2022.

1. Interactive doubt clearing classes.

- Interactive classes are conducted using real time electrical engineering examples.
<https://www.youtube.com/watch?v=q6LHVvRtB3w&t=457s>
- During online classes, writing pads with colourful pens/ annotations are used to make classes more interactive. The recorded lectures and annotated notes are provided in following link-
<https://drive.google.com/drive/folders/liZnCPVHiBkBa1iEAUvMkCzVG8qWodbhT?usp=sharing>
- Doubt clearing classes are conducted as per provided Remedial class time table. The data summary of conducted remedial classes are as follows:

Total no of remedial classes conducted (from Non 2021 to Jan 2022): 08

Average attendance (AIML branch): 27/68

Average attendance (AIDS branch): 32/68

Dates of Remedial Classes	Branch	
	AIML (66)	AIDS (66)
29.11.2021	35	44
06.12.2021	33	40
13.12.2021	32	41
27.12.2021	22	27
10.01.2022	22	25
17.01.2022	21	27
31.01.2022	24	19
04.02.2022	27	32
Average	27	31.875

2. Needs of slow learners through question/answer model.

- Slow learners are identified as per the criteria provided by Dean (Academics).
- Extra/ Remedial classes are conducted for slow learners, for which the summarized data is as follows-

No of slow learner students	Dates of remedial classes conducted for slow learners
B.Tech/ AI&ML/ First Sem/ BEEE: 03	29.11.2021
	06.12.2021
	13.12.2021
	27.12.2021
B.Tech/ AI&DS/ First Sem/ BEEE: 02	10.01.2022
	17.01.2022
	31.01.2022
	04.02.2022

- In first year first semester, some late admission students are not able to perform well and they are counted as slow learners. Actually they are not slow learners but they need extra time to cover the syllabus. Time to time extra classes are conducted for these students also.

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- Hand written simple language notes in the form of question & answers are provided to slow learners. Sample notes are provided in google drive-
<https://drive.google.com/file/d/1jGUxV3gjbXZnu-Wit-xQQkioqNPYQ0VL/view?usp=sharing>
- 3. Personalized attention through phone call/whatsapp/email etc. as per the need.**
- Students are free to ask question through phone calls/ whatsapp/ email etc. Among all these platforms, Whatsapp is the first choice of students for discussions. Few snapshots of whatsapp discussion with students are given in google drive-
<https://drive.google.com/drive/folders/16Yu9PPjtWu3ZM9yhPfsSBC7yYQkCt8fM?usp=sharing>
- 4. Guidance sessions related to examinations.**
- Guidance related to examinations are covered during the followings-
 - Induction program.
 - One day before the commencement of Mid sem-1/ Mid sem-2/ Mid sem-3 exams.
 - Instructions are also provided on Moodle.
<http://moodle.mitsgwalior.in/course/view.php?id=487>
 - Previous year question papers are provided through google drive.
https://drive.google.com/drive/folders/1_nILCp9tf_94eXJYN6zcfNF6rNvmdSo?usp=sharing
 - Important question bank along with answers in simple language is also provided to the students. The sample is provided in google drive-
<https://drive.google.com/file/d/1jGUxV3gjbXZnu-Wit-xQQkioqNPYQ0VL/view?usp=sharing>
- 5. Attending to any other special needs as per the response/feedback received.**
- Feedback is collected by the students during Mid sem-1 & Mid sem-2 examinations. The suggestions given by the students are discussed by HoD and then an ATR is prepared by Prof. Rahul sagwal (sir). The required action is also implemented.
https://docs.google.com/document/d/1_Dv4ZgZz-NUwAW0jrr3Wt6vAlZXXK_egu/edit?usp=sharing&oid=112023514995290540585&rtpof=true&sd=true
 - Feedback is also collected after conduction of first 4/5 classes, so that necessary action can be taken at the start of the course.
https://drive.google.com/file/d/1xdCtpuwhFdv_y2iaOoY232NzgrUmY2d/view?usp=sharing
- 6. Fast learners & synchronous learners are motivated to help learners with difficulties.**
- Fast and synchronous learners are motivated through following activities-
 - **Presentation in groups:** Group must have fast & slow learners both, so that peer-to-peer learning can also be implemented.
https://drive.google.com/file/d/19Z_vZZe7b3_0IMk00cWATNMSRWmuzaMU/view?usp=sharing
 - **Submission of min projects in groups:** Group must have fast & slow learners both, so that peer-to-peer learning can also be implemented.
<https://drive.google.com/file/d/1Qwju85VnU20W6iUc7wm890bFOx03bjCa/view?usp=sharing>