MADHAV INSTITUTE OF TECHNOLOGY AND SCIENCE, GWALIOR

(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)

Department of Information Technology

Date: 14/02/2022

Report of In-house Workshop on "Addressing the special needs of slow and advanced learners through teaching- learning"

An In-house workshop on "Addressing the special needs of slow and advanced learners through teaching- learning" was conducted on 03/02/2022 (4:15 PM- 6:00 PM) at IBM lab. This workshop is coordinated by following faculty members and 15 faculty members were present during workshop:

1. Dr. Sanjiv Sharma
2. Dr. Saumil Maheshwari
3. Dr. Tej Singh
4. Prof. Namrata Agrawal

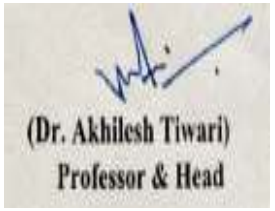
Objectives of workshop:

- To boost up the confidence of slow learner students and to realize their weakness.
- To enhance the skills in respect of learning process
- To remove the scare about study.
- To make the equal level of slow learner and advance learner.
- To motivate for an innovative and creative mindset.
- To organize the workshop/seminar/guidance program for slow learner.

Following outcomes were discussed during workshop.

1. Faculty members shared their opinion about key points of workshop and their experiences.
2. As per present scenario, Advance learner can be identified by monitoring their attendance and assessment during internal & external exams. Faculty members also suggested other method for the same such as projects performance evaluation, surprise test and viva so that critical thinking and skills of students can be observed.
3. Personal interaction with students and oral assessment of themcan be play crucial role to identifying slow and fast learner
4. On the basis of specific subject of curriculum, students can be classified as slow learner in one subject and fast learners in another subject.
5. If faculty provide proper guidance, motivation, counselling and moral support to the students, the number of slow learner can be reduced.
6. Remedial / additional classes are meant to encourage slow learners and provide scope for one to one discussion to solve their doubt so that confidence of slow learner can be enhanced.
7. Teaching & learning resources constraints are also affect the learning process of the students. Some slow learner students may also suffer the scarcity of the resources.

8. Bridge course/classes should be conducted at the starting of the session for those students who are from lateral entry, rural areas orHindi medium schools.
9. Motivate the advance learners for proving their possible support in teaching & learning of slow learner students.
10. Faculty members can incorporate following teaching aids for creating interest in their lecture for slow learner such as animated video, virtualization and simulation tools ,use of social media platform, visual teaching aids.
11. Faculty should provide separate complex assignment /problems/ activities to stimulate interest of advance learners.



Enclosure:

1. Brochure
2. Pre-work
3. Attendance of participants
4. Details of deliberation/ presentation during workshop
5. Feedback of workshop
6. Glimpses
7. Status of additional classes conducted for slow and medium learner
8. Additional Measures Proposed

Encl no.1

MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR - 474005
(A Govt. Aided UGC Autonomous & NAAC Accredited Institute Affiliated to RGPV, Bhopal)
DEPARTMENT OF INFORMATION TECHNOLOGY

Key Points:

1. Identification of Advanced Learner
2. Identification of Slow Learner
3. Special needs for Advanced Learner
4. Special needs for Slow Learner
5. Policy Guidelines for Advanced learners
6. Policy Guidelines for Slow Learners
7. Remedial Classes
8. Bridge Classes
9. Personal Counselling

Addressing the special needs of slow and advanced learners through teaching-learning

DATE: 03/02/2022

TIME: 4:15 PM

VENUE: IBM LAB

COORDINATORS :

DR. SANJIV SHARMA

DR. SAUMIL MAHESHWARI

DR. TEJ SINGH

PROF. NAMRATA AGRAWAL

MITS

Encl no. 2

Pre-work and Departmental status of 6 points proposed in digital plan of institute

Email Address	Name	How to identify slow and advance learner?	What is the significance of remedial and bridge classes in teaching & learning?	Please provide status of implementation of Interactive doubt clearing classes by you (please provide details):	Identifications of any needs of slow learners or advance learner through question/answer mode by you? (please provide details)	Personalized attention through phone call/whats app/email etc as per the need of slow learner received from you? (please provide details)	Guidance sessions related to examinations conducted by you (please provide details)	Any Fast learners & synchronous learners are motivated by you (please provide details)
dhananjay@mitsgwalior.in	Dr Dhananjay Bisen	On the basis of students attendance, Quiz and assignment attempted till now.	Remedial classes only for those students who have doubts in particular subject. The main significances are like teacher can clear subject doubt and also revise some topics of subject on student demand.	I have conducted classes for doubt clearing in which we have given examples (real world examples) for better understanding to topics.	We should take oral viva (one to one) to identify slow learners or advance learner.	most of the time, I have communicated with slow learner during class.	I conducted guidance session related to Mid semester examination and quiz.	During class, I have identified some students (fast learner) through putting some conceptual questions and that time I motivated them to improve skills on subject.
pawand@mitsgwalior.in	Dr. Pawan Dubey	Number of Attendees in the class(as is being carried out)	Remedial and bridge classes are useful for weaker students.	cleared doubts and motivated the students to push them to involve more in programming	If the attendance is less the 10 percent the weak learner, which apparently shows students might have lost interest in the class, slow learner else the student is fast learner.	Both means were employed.	in each remedial class (if required)	Yes
abhilashsonkerit@mitsgwalior.in	Abhilash Sonker	Performance of student in class.	To improve weak student.	-	Quizzes, presentation etc.	-	-	-
namrataagrawal@mitsgwalior.in	Namrata Agrawal	students who are inactive in classes and got less marks in midsem are slow leaners .Students who are active and regular in classes are advance learners.	It helps slow learners and irregular students in learning.	1 class in a week	Communication issues Internet problem	-	Yes, and provide information in class for quiz and assignment	-

saumil@mitsgwalior.in	Dr.Saumil Maheshwari	The slow learners will be those students who are not attending any online classes or attending less than 10% of classes, and not submitting assignments/quizzes or submitting/appearing for less than 10 % of assigned/conducted.	Personally help to students for difficult topic.	Once a week	They may fail in exams or will score only poor grades.	yes, through whatsapp	Before the exam and doubt clearing after the exam	May be Yes.
vikramraj@mitsgwalior.in	Dr. Vikram Rajpoot	Attendance and performance of Quiz & Assignment	Very significant in clearing the doubt of slow learner as well as other students.	Clearing students in remedial class by one to one communication.	NO	YES	YES	YES
abhishekdixit@mitsgwalior.in	Abhishek Dixit	The slow learners will be those students who are not attending any online classes or attending less than 10% of classes, and not submitting assignments/quizzes or submitting/appearing for less than 10 % of assigned/conducted. The fast digital learners will be those students who are attending almost all classes (2-3 per week per course), quizzes etc. and submitting assignments regularly.	Personally help to students for difficult topic. Some topics are explained with practical so that it make easy to understand.	Yes, conducted on weekly basis.	Short feedback times. Dont make students compete.	Whats app and meet	yes, before the exam and also discussion over weekly quizzes and assignments.	I think Yes.
vishwas1058@mitsgwalior.in	Vishwas Srivastava	By monitoring their class and quiz activity	It can be very useful for week students to understand the concept in revesion class	Yes, once a week.	Give more hands on assignments Use shorter tests.	Whatsapp and email	Yes, and provide information in class for quiz and assignment	Fast learners are good enough to deal with the situation/circumstances but slow learners are motivated on regular basis.
vikassejwar@mitsgwalior.in	Vikassejwar	based on Attendance, performance in class, Assignment submission on timely	improvement of slow learner students	remedial class	Attendance, performance in class, Assignment submission on timely	all	no	Yes
rajeevkumar@mitsgwalior.in	Rajeev Kumar Singh	Student who do not attend the class	To fill the gap in knowledge	Student can interact any time	No	No	No	No

dhananjay@mitsgwalior.in	Dr. Dhananjay Bisen	On the basis students attendance, quiz and assignment.	Using these classes we try to clear doubts of slow leaners.	Time to time we are taking weekly doubt clearing class in which approximate 10-15 students joined classes. in this classes, I had discussed only previous topics on the basis of student demand.	During class, I ask some basic question to students related to previously discussed topics. On this basis, I observed that more attention is required to slow learns in terms of students communication and their basic understanding in subject.	I conducted only remedial classes.	Yes	Yes, Junaid khan, Naman Panjre (0901IO211034) (IT-IoT branch) , I observed in class they are good in subject "Introduction to IoT", always discussed many topics related to IoT through call and what app. During discussion, I have motivated many time and gave guidance about "how you can get more knowledge of subject and its importance in companies.
bhagat@mitsgwalior.in	Dr bhagat Singh Raghuwanshi	I observed slow and advance learner on the basis of student attendance, quiz and assignment performance.	Cleaning Doubts of slow learners	We are taking weekly remedial class of slow learners.	I observed we should more focus on slow learners in case of subject knowledge.	I scheduled remedial class and doubts class time to time.	Yes	Yes I have motivated during the class.
nehabhardwaj@mitsgwalior.in	Neha Bhardwaj	Identify on the basis of their attendance, attentiveness, quizzes, assignments...	These classes are needed to fulfil the gap between slow and advance learner	taken meetings and try to motivate students so that they can speak up their issues of poor learning	Students reply: Communication issues Internet problem Hesitation Beyond understanding	Through Whatsapp	Yes, a meeting with IT -3rd semester was conducted to familiarize them with exam conduction. and also conveyed them not to repeat mistakes. Give some tips for calmly attempting the question paper	I have tried but results cannot be fast.
pkjohari@mitsgwalior.in	Punit Kumar Johari	Constantly those students whos are degrade their performance in Mid Semester examination and not properly submitted their assignment regularly.	Those students are perform not well in their continuous evaluation are comes under the category of remedial classes. Those students who has joined in late session (i.e. Lateral Entry students, late admission, N-batch(due to revaluation results), CGPA improvements students etc.) comes under the category of bridge classes.	As per the provision of extra classes and remedial class the same is being conducted.	Yes, through surprise tests, include few Complex questions in assignments, float extra mini projects related to the subjects for those who are willing to solve.	Yes, so many times the students are ask solution after quiz and when stuck in solution of the assignment.	Yes through regular meeting and through orientation programs.	Yes, motivated for Higher studies etc. provide recommendation for the same etc.

dr.sanjiv@mitsgwalior.in	Sanjiv Sharma	1. Identification of advanced learnersThe advanced learner refers to the students who can engage learning activities faster than the other students in the class and achieve high scores.Advanced learner are more potential with their comprehension, retention, memory, critical thinking, creativity and contextualization practices. They also may have hard working behaviors and usually achieve more than the majority of the classmates. These students are in a great extend gifted and talented than the others in the class. 2. Identification of slow learnersThe slow learners are always the poor achievers and lag behind with the academic life.They may fail in exams or will score only poor grades. They will find it difficult to understand the lessons and may have difficulties in their comprehension, retention, reproduction and integration.	Nurture the knowladgeof of slow learner students for Academically growth	Yes, once a week.	Effective offline classes conduction &industy oriented syllabus design for employablity enhancement	Yes	Yes for NPTEL and end term exam during additional classes	Yes, provided provision for intership through Infosys

tejs@mitsgwalior.in	Dr Tej Singh	1. Identification of advanced learners The advanced learner refers to the students who can engage learning activities faster than the other students in the class and achieve high scores. Advanced learner are more potential with their comprehension, retention, memory, critical thinking, creativity and contextualization practices. They also may have hard working behaviors and usually achieve more than the majority of the classmates. These students are in a great extend gifted and talented than the others in the class. 2. Identification of slow learners The slow learners are always the poor achievers and lag behind with the academic life. They may fail in exams or will score only poor grades. They will find it difficult to understand the lessons and may have difficulties in their comprehension, retention, reproduction and integration.	Separate classes are conducted for them and fast learner students are also welcome in this class. Personally help to students for difficult topic. Easy class test are conducted to motivate the slow learner. Some topics are explained with practical so that it make easy to understand. Some topic start from basic concept. Teacher give hint related to topic to remember	NA	The slow learners are always the poor achievers and lag behind with the academic life. They may fail in exams or will score only poor grades. They will find it difficult to understand the lessons and may have difficulties in their comprehension, retention, reproduction and integration.	NA	NA	NA

Encl No 3:

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Department of Information Technology

Attendance sheet for the In-house Workshop on

"Addressing the special needs of slow and advanced learners through teaching-learning "

Date: 03/02/2022

S.No.	Faculty Name	Signature	Remark
1.	Dr. Sanjiv Sharma	3/2/22	
2.	Prof. Punit Kumar Johari	03/02/2022	
3.	Prof. Vikas Sejwar		
4.	Prof. Abhilash Sonker	← Absent →	
5.	Prof. Kajeev K. Singh		
6.	Prof. Neha Bhardwaj	NBD	
7.	Dr. Saumil Maheshwari		
8.	Dr. Vikram Rajpoot		
9.	Dr. Dhananjay Bisen		
10.	Dr. Tej Singh	03/02/22	
11.	Dr. Pawan Dudey	03/02/22	
12.	Prof. Abhishek Dixit	03/02/2022	
13.	Dr. Bhagat S. Raghuwansi	3/2/2022	
14.	Prof. Namrata Agrawal	3/2/22	
15.	Prof. Vishwas Srivastava	03/02/2022	

(Dr. Akhilesh Tiwari)
HoD , IT

Submitted to Dean Academics for kind Information and needful.

Dean Academics

Encl no. 4.

In-House Workshop
On
Addressing the special needs of slow and advanced learners through teaching-learning
Co-ordinated by:
Dr. Sanjiv Sharma, Dr. Saumil Maheshwari, Dr. Tej Singh and Ms. Namrata Agarwal
Department of Information Technology

Identification of advanced learners

The advanced learner refers to the students who can engage learning activities faster than the other students in the class and achieve high scores.

Advanced learner are more potential with their comprehension, retention, memory, critical thinking, creativity and contextualization practices.

They also may have hard working behaviors, great extend gifted and talented than the others thus usually achieve more than many of the classmates.

The fast/advanced digital learners will be those students who are attending almost all classes (23 per week per course), quizzes etc. and submitting assignments regularly.

Identification of slow learners

The slow learners are always the poor achievers and lag behind with the academic life.

Prone to be immature in interpersonal relationships

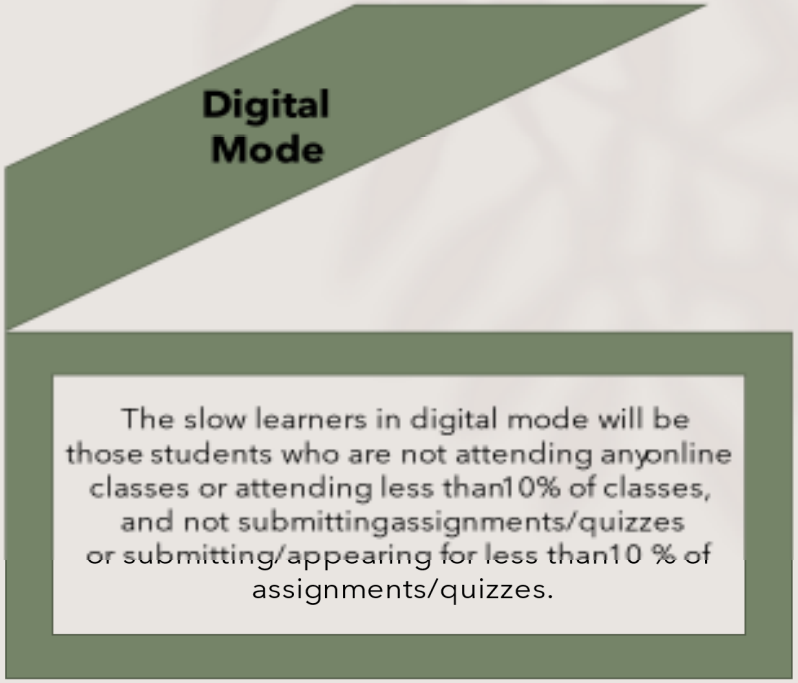
Have difficulties following multi-step directions

Do not develop long term goals and tend to live in the present only

Following key points are considered to identify the slow learner.

- By asking the oral question in the class room.
- Mark obtained in the class unit test.
- To check their home assignment.
- As per previous university/Board result.

Cont…


Digital Mode
The slow learners in digital mode will be those students who are not attending anyonline classes or attending less than10% of classes, and not submittingassignments/quizzes or submitting/appearing for less than10 % of assignments/quizzes.

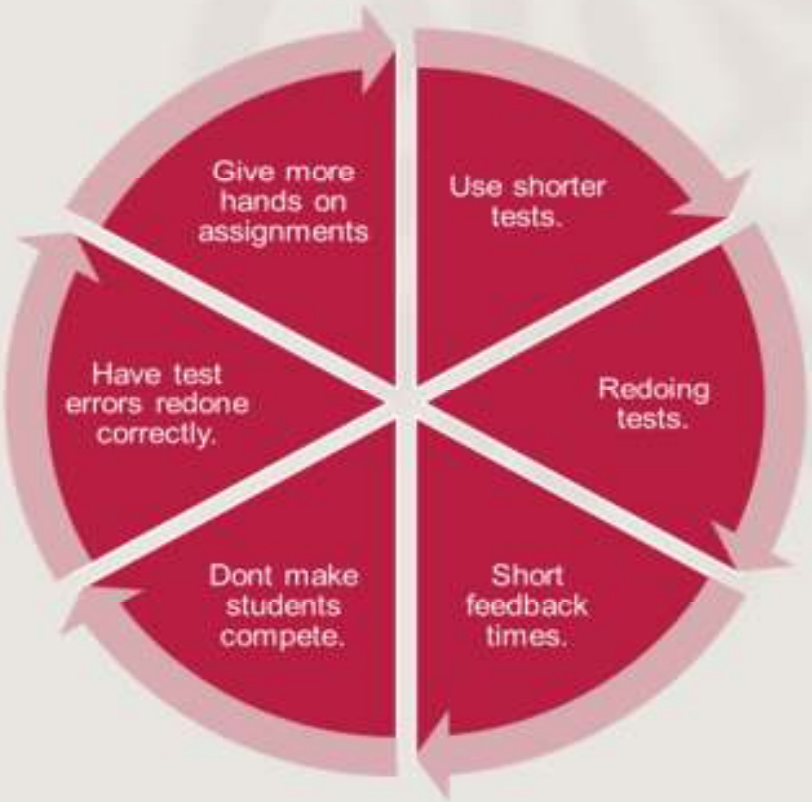
Special needs of advanced learners

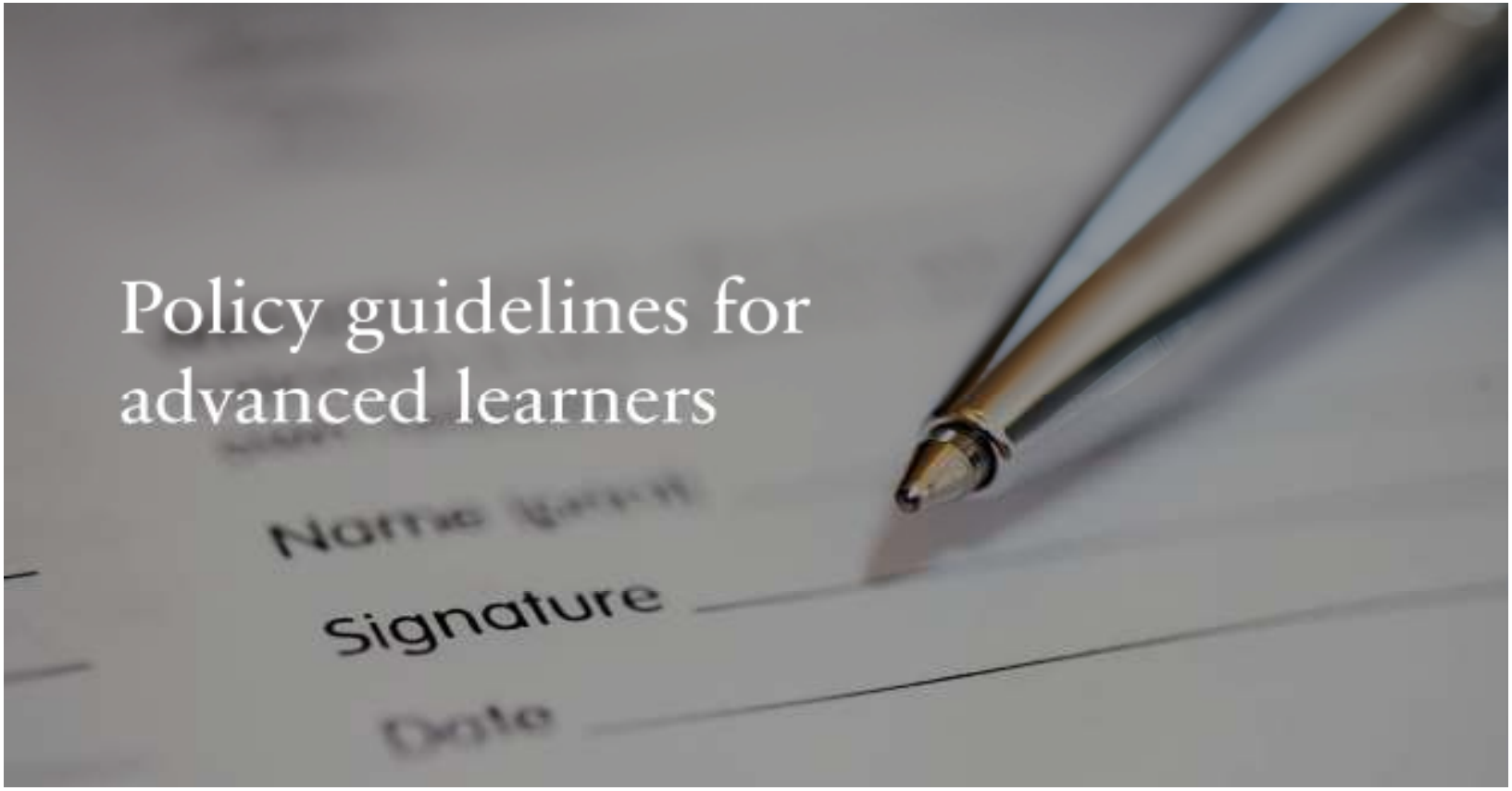
- Support system for Advanced learners
- Encouragement to identify and utilize the web learning resources
- Motivation to participate in interactive activities like debates, group discussion on and out of the syllabi contents and participation in various cultural, extra-curricular and research competitions in and out of the college.
- To provide need-based facility in departments and library to advanced learners.
- Arrangement of Guest lectures.
- Meritorious students can be felicitated with cash prizes and certificates.

Special needs of slow learners

- Remedial Course for slow learners, absentees and students involved in sports activities.
- Helps slow learners to improve subject knowledge with the result of catching up with their peers.
- Group formation of Slow learners and activities there by under the monitoring by advanced Learners
- Bridge Course for first year students and lateral entry students
- Orientation and Induction Programme at College and departmental level for freshers
- Provision of simple and easy notes and course material.
- Teacher Guardian Schemes/ Mentor Mentee
- Arrangement of Guest lectures

Cont…


Give more hands on assignments
Use shorter tests.
Have test errors redone correctly.
Redoing tests.
Dont make students compete.
Short feedback times.


Policy guidelines for
advanced learners
Signature
Date

Cont...

Advanced learners are **motivated** to strive for **higher goals**. They are provided with additional inputs for better career planning and growth through offering special coaching for higher level competitive examinations

Motivating them to involve in research projects to inculcate **research orientation** and **higher studies** aspirations

Helping them to participate in **group discussions**, technical quizzes to develop **analytical** and **problem-solving** abilities in them and thereby, to **improve their presentation skills** Encouraging them to participate in National International Conferences and also to make presentations

Cont...

They are given **special prizes** and special facilities like special scholarships for making their ideas become visible.

Startups are offered the advanced learners. Seed money can be offered to advanced learners to make their innovative proposals implemented.

The mentors give higher goals and also make the advanced learners get higher levels of **personality development** and **stress management trainings**.

Policy guidelines for slow learners
Signature
Date

Cont...

The slow learners are not labeled as poor achievers or problem students in the class or department so that their motivation and their interest are not negatively affected. This can also make them more stressed, and introvert in the class.

They should be treated as any other student in the class but they can be provided extra classes for improvement and achievement.

The Department and individual teachers help the slow learners by giving proper guidance and support to them.

Organize bridge classes and **remedial programmes** for them.

Conduct extra classes for the difficult subjects in the curriculum.

Cont...

The students are given with training on "**communication skills, personality development** , **time management** and **motivational sessions** ".

Bilingual explanation and discussions are imparted to the slow learners after the class hours for better understanding.

Provision of **simple and standard lecture notes/course materials** and special preparation for the exams will be good

The **support** of the **alumni** is also effectively used to motivation and mentoring to the slow learners

Remedial Classes

- Separate classes are conducted for slow learners and fast learner students are also welcome in this class.
- Additionally help to students for difficult topic.
- Easy class test are conducted to motivate the slow learner.
- Some topics are explained with practical or with basic concepts so that it make easy to understand.
- Teacher give hint related to topic to remember.

Personalized Counselling

Personal Counselling as and when the advanced learner students turn up for the guidance

Academic and personal counseling are given to the slow learners by the tutor, mentor and the counseling cell.

Regular counselling sessions by class coordinators and student counsellor.

Suggestions?
Thank You

Encl no. 5

Feedback of the Workshop

How satisfied were you with the workshop?	How relevant and helpful do you think it was for you?	The amount of information was appropriate for time allowed	Was Pre-workshop information provided to you helpful?	What did you like best about this workshop?	What did you like least about this workshop?	How satisfied were you with the workshop?[Visuals]	How satisfied were you with the workshop?[Acoustics]	How satisfied were you with the workshop?[Meeting Space]	Any overall feedback for the workshop?
5	5	4	5	Best of this workshop was: know about "how to analyse slow and fast learner in class".	No least point of this workshop. Everything explained well and proper manner.	5	5	5	Overall workshop is excellent..
5	5	5	5	Discussion on open platform and Opinions taken from all the participants	-	5	5	5	More discussion requires and sum-up with the solution
5	5	5	5	Peers Discussion on relevant matter	NA	5	5	5	The overall session was good , collaborative and meaningful
4	4	4	5	Participants were highly motivated to give their openion.	Nothing	5	5	5	Excellent and much interactive workshop.
5	5	5	5	-	-	5	5	5	-
5	5	5	5	The most attractive thing was discussion among the coordinator and participants	No	5	5	5	The workshop was very useful and interactive
5	5	5	4	Solutions presented to deal with slow and advanced learners	NA	5	5	3	The solutions proposed should also be implemented with consent from the higher

									authorities.
5	4	5	5	Discussion on Slow Learner Improvement	All the things are good	5	4	5	Very Good
3	3	4	3	Active participation of each member	NA	4	4	5	Content delivery of Dr. Sanjiv Sharma is very appreciable.
4	3	3	4	open & interactive	static for something	4	4	4	Average to Good
5	5	5	4	Interactive	NA	4	4	4	Nice

Encl no. 6

In-House Workshop
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Co-ordinated by:
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Department of Information Technology

Encl no. 7 & 8

Status of additional classes conducted for slow and medium learner

1. Average 35 additional classes per semester conducted for slow learner and medium learner students in the form of remedial classes
2. Weekly one or two classes conducted of each subject for the slow learner and medium learner students.
3. Personal counselling session also conducted during remedial classes.

Additional Measures Proposed

1. Minor project marks evolution
2. Rubrics of the labs
3. Oral assessment during classes
4. Solutions of creative problems during class
5. Conduction of events for evaluating skills of students.
6. Promptness for answering the questions during classes.

(Dr Sanjiv Sharma)
Assistant Professor

(Dr. Akhilesh Tiwari)
Professor & Head