

Methodologies to Identify and support slow learner students and encourage advanced learner students

Preface:

Department of Electronics and Telecommunication Engineering is very sensitive to understand the students learning abilities. Efforts are made to raise the learning levels of both weak learners and bright learners. The following mechanism is used for identification of learner types.

➤ Objectives:

The objective of such assessment process of the learning levels of the students is:

- To identify the factors affecting the student's performance
- To analyse them with respect to the departmental assessment process.
- After identification and analysis, to provide a proper solution for improving their performance and build a successful career.
- To provide a desirable and gracious solution both for the slow learners and advanced learners to avoid any discrimination between them and they must take interest to reach up to a position in due course of time where both the group feel at balance with each other.

As per Gardener's theory of multiple intelligence, it's important to identify the intelligence level of the students and incorporate it with blooms taxonomy to teach the subject accordingly, however due to a large number of students and many subjects, emphasis is given to two categories weak students and bright students.

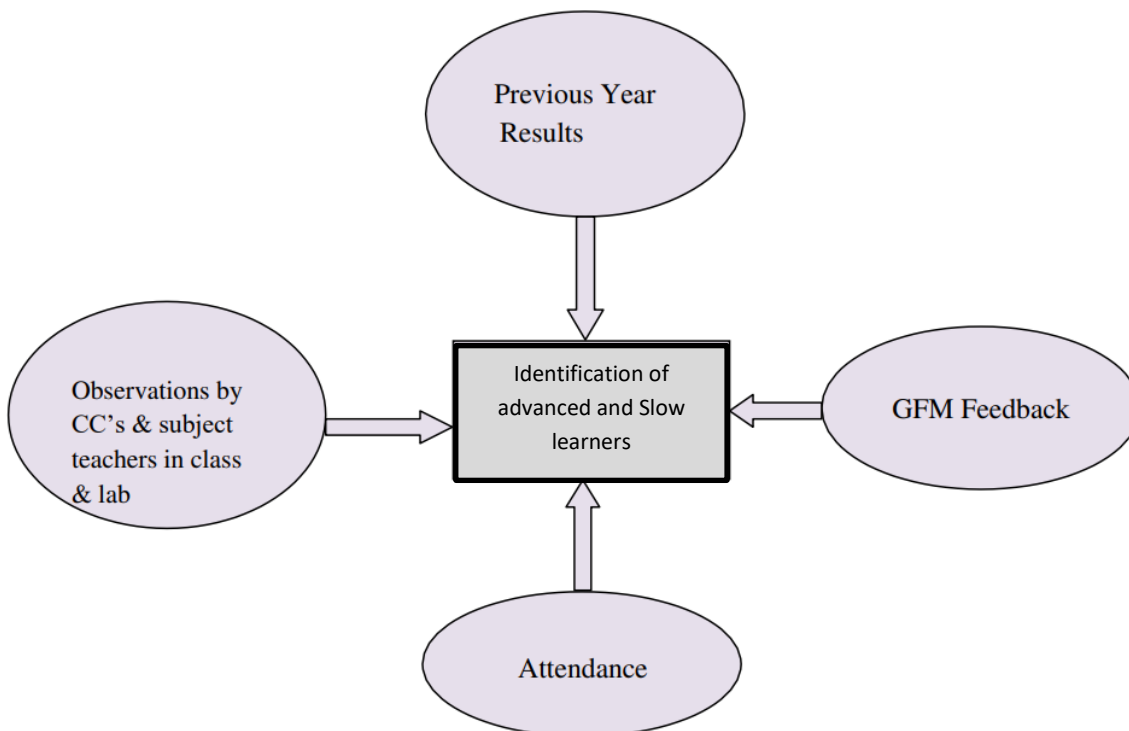


Fig 1. Identification of advanced and slow learner students

The slow learner students and advanced learner students are identified based by every class coordinator on the basis of following parameters:

1. Previous semester or year results:
2. GFM feedback:

3. Attendance

4. Observations by Class coordinators, subject teachers in class & lab.

5. Use of ICT (specifically Moodle) tools provided by faculty members.

Sr. No.	Parameter	Slow Learner	Advanced Learner
1	Previous semester or year results	3 or more that 3 backlog subjects	First class with distinction
2	GFM feedback	Poor	Excellent
3	Attendance	Below university norms	As per university norms
4	Observations by Class coordinators, subject teachers in class & lab.	Slow	Best

- The above information is consolidated to identify the students.
- All CC's, subject teachers & GFM takes decision to finalize list of weak & bight students of respective class in the meeting.

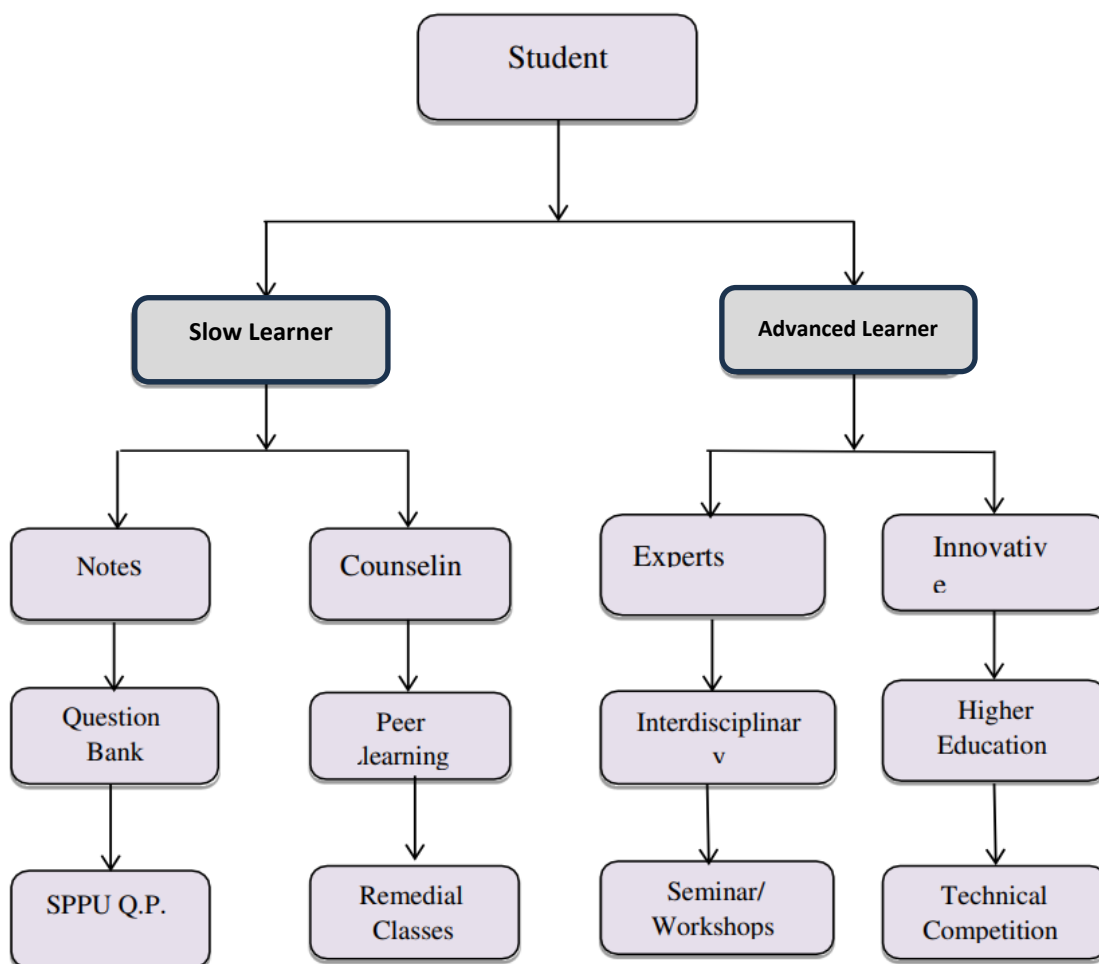


Fig 2: shows how the different Strategy to support slow and advanced learner students

Student-Centric Strategy to support slow learners:



Fig 3: different Strategy to support slow learner students

- Designing a course with simple & interesting game pedagogy.
- During pandemic, question bank is provided to students through LMS(Moodle) system and student uploaded this on Moodle by solving it rigorously .
- Question bank is prepared for the weak students on important and challenging topics along with solutions and university marking scheme.
- The faculty members are available to solve all queries of weak students in the examination period.
- Promote weak students to participate in hands on work in lab session & solve team assignments.
- Motivate weak students to ask questions in class to clear their doubts, eventually building their confidence.
- Encourage weak students to attend tutorials and assist them to solve and practice more numerical.
- In the remedial classes' students interact with each other and exchange knowledge, solution methods along with the faculty member as well.
- Professional counsellor has been appointed to guide the weak students.
- Professional English trainer has been appointed for improvement in English language,
- Communication and Presentation Skills.

Student- Centric Methodology to encourage advanced learners:

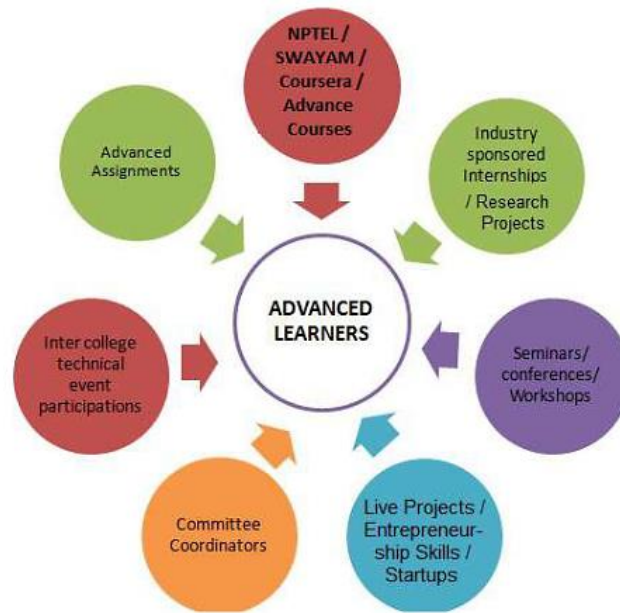
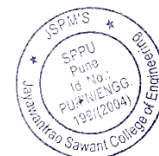


Fig 3: different Strategy to support advanced learner students

- Best academic performance awards are given to top 3 students of each section, for all the courses, based on their performance in university examination of the preceding year.
- During pandemic students are encouraged for the online project competition, conferences and various online activities.
- Hands-on training & workshops with the latest technologies are organized for bright students.
- Encouraging and counseling students for higher studies in India and abroad.
- Students are motivated to carry external projects from industry and/ R&D labs.
- Students are encouraged by assigning projects related with social problems and making them aware about problem solving like social security, public health, environmental & global issues.
- Guest lectures by industry experts are organized for third and final year students.
- Students are motivated to participate in university and national level technical competitions
- To cope up with the emerging technologies in the industries, internship is arranged during the vacation slots.
- Company specific training during Campus drive is organized by the college so as to facilitate them to be placed in the reputed companies.
- The bright students with good academic track records are encouraged to achieve higher ranks in the university exams.
- They are motivated to prepare for competitive examinations like GATE, GRE, and GMAT etc.




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