PANIPAT INSTITUTE OF ENGINEERING & TECHNOLOGY

(Approved by AICTE, New Delhi & Affiliated to Kurukshetra University, Kurukshetra)

STANDARD OPERATING PROCEDURE

FOR

WEAK AND BRIGHT STUDENTS

70th KM Stone, G.T. Road, NH-44, (Previously NH-1), Samalkha Distt. Panipat 132102 (Haryana)

About PIET

Panipat Institute of Engineering and Technology (PIET) was established by the Vidhya Peeth Education trust in the year 2006. It was the time when state and NCR was striving of producing World Class technocrats and Managers. PIET was Self-Financed Initiative by a Private Management which always had an eye on quality of technical education.

The great philosophy of PIET management has created an edifice that is strengthening its foundation, which can only rise higher and higher. Quality and Integrity is the essence for achieving Excellence at PIET. Members of Executive Academic Advisory Board being eminent personalities and philanthropists which have been successful in their endeavors set out with a common desire to design to serve the community through value-based education.

When we look at some option of best engineering Institute in National Capital Region, PIET stands out of a clear leader. A Multidisciplinary institute affiliated to Kurukshetra university, Kurukshetra approved by AICTE, New Delhi provides Undergraduate programs in Engineering and Management. PIET has consistently pushed the war of excellence to garner riche for itself among the Ten Engineering institute in Delhi/NCR in the field of Engineering Education.

It has focus on its goal of producing Entrepreneurs, world class Manager and technocrats employable throughout the globe. The institute has one of the largest student populations among engineering colleges of NCR. PIET is the most preferred destination for the students from across the country which could be attributed to the quality of education, infrastructure, healthy teaching Learning practices as well as producing industry ready students.

About Department

The Global need for IT and the pivotal role it plays in today's World is undoubted. Every day, rapid advances are being made in the way we use technology to enhance performance, and there is a massive corresponding demand for tech talent in all industries. To evolve with the times and manage this tech revolution, organisations are now employing Post-Graduates in Computer Applications to meet current business needs. To meet the challenges, IT professionals evolve with the times and develop their knowledge and skills. MCA degree is known for optimising student's potentials with those unique skill-sets, which are much needed to grow and thrive in the tech savvy world. Master of Computer Applications (MCA) aims to not only train students in the existing programming languages but to empower them with skill-sets to develop languages for the future. MCA degree helps in gaining In-depth knowledge of in-demand IT tools and applications enhancing one's career growth.

An MCA professional has the dexterity to foresee the upcoming industry trends and invent new software's and applications to boost efficiency, adaptability, agility and productivity in a plethora of business sectors. Post graduate degree focus on developing the youth into professionals who can work in team, possess high analytical abilities, and help in solving complex problems of various domains through principles of computer science and applications.

There is no lack of job opportunities for MCA graduates. A candidate with a master's degree in computer applications along with some amount of work experience, expertise and capability can easily find great opportunities in major IT firms (both private and government) across India and abroad. Some of the top job profiles after MCA course are:

Computer Programmer, Software Developer, Software Analyst, Business Analyst, Database Administrator, Web Design and Development, Information Systems Manager, Network Administrator, System Engineer, Entrepreneur, Android and IOS Developer, Ethical Hacker.

Vision of the Institute

To be globally known and recognized as an educational institute of engineering, technology, management, pharmacy and research having a transformative impact on society.

Mission of the Institute

M1: To impart knowledge, skills and creativity to all the students.

M2: To provide a conducive environment for quality teaching, learning, and research.

M3: To create awareness on sustainable technologies and innovative solutions to societal problems including entrepreneurship.

M4: To strengthen institutional and industrial collaborations nationally and internationally.

Vision of Department

To be recognized as a centre of excellence for academic repute to create competent, ethical, and responsible Computer Applications professionals with the abilities to contribute globally to the industry, environment and the society at large.

Mission of Department

M1: Equip students with knowledge and practical skills in computer applications in line with the needs of the industry.

M2: Foster research and innovation capabilities, imbibe ethics and values, and instill leadership in students to support sustainable development.

M3: To develop students with an analytical mindset and the competence to solve real-life problems.

M4: Facilitate linkages with industry and professional bodies, provide experiential learning opportunities, and develop responsible students with abilities to learn and work independently.

PREFACE

The institute has a well-defined process for monitoring, guiding and assisting weak as well as bright students. Within the class room, a faculty deal with students with different learning ability, some students can learn very fast while some learn comparatively slow. Thus, it is required to determine the learning capabilities of students in the class, and to ensure students irrespective of their learning abilities receive the best possible knowledge for their academic growth and success.
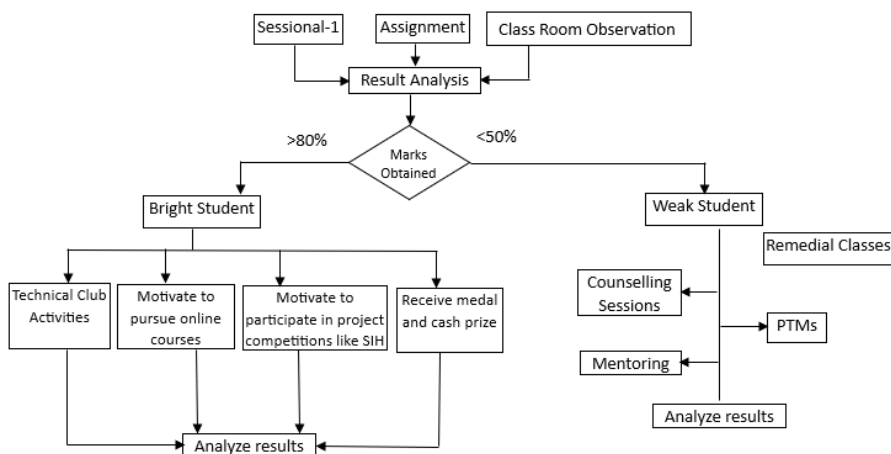
The learning proficiency of student can be assessed based upon the attentiveness and response during class room session, concept understanding, fundamental knowledge and from their performance in mid-term examination and assignment given by the concerned course teacher.

Based on above parameters, students can be categorized into weak and bright students. Weak students are given optimum support in the form of assignments and remedial classes to improve their performance while the bright students are encouraged to participate in extra-curricular/ applicative assignments/ Institute level extension activities and to enroll in online courses.

STANDARD OPERATING PROCEDURE FOR INDENTIFICATION OF WEAK AND BRIGHT STUDENTS AND THEIR CORRECTIVE MEASURES

1. PROCEDURE

The institute follows a rigorous process to identify weak and bright students.

2. IDENTIFICATION
2.1 IDENTIFICATION CRITERIA FOR WEAK STUDENTS

1. Initial observation of learning pace of students is done by respective course teacher based on the attentiveness, response and overall engagement of the student in class. **Weak** or **bright students would be identified for each course separately by the teacher.**
2. Student's grades and performance is regularly assessed by the course teacher.
3. Categorization of student as weak or bright can be done by faculty member on the basis of the threshold set as given below:

- For Bright Students: Scored 80% and above in the first sessional and assignment of respective course.
- For Weak students: Scored 50% and less in the first sessional and assignment of respective course.
- **Also, if a student has secured more than 50% but his/her class performance is not up to the mark, then corresponding course teacher can consider him/her as weak.**

2.1.1 CORRECTIVE MEASURES FOR WEAK STUDENTS

S. No	Identification Criteria	Action Taken
1.	Students securing less than 50% marks in mid-term examination and assignment	✓ Conducting remedial classes during the available slots in weekdays or Saturday ✓ Providing extra assignment ✓ Conducting counselling session ✓ Performance of student is informed regularly to parents through phone calls / performance letters or PTM ✓ Providing previous year University question papers to the students ✓ Mentor and course teacher of the student keep track of their progress and help them to overcome the problems faced in studies.

2.1.2 IMPACT ON WEAK STUDENTS

1. Improved performance in second mid-term examination.
2. Counselling and mentoring by faculty help students to overcome the difficulty faced in studies and other curricular activities.
3. Improvement in understanding of the subject.
4. Improvement in end semester result.

2.2 IDENTIFICATION CRITERIA FOR BRIGHT STUDENTS

1. Students who have scored 80% or above marks in mid-term examination and assignment are identified as Bright students.

2.2.1 ACTION TAKEN FOR BRIGHT STUDENTS

S. No	Identification Criteria	Action Taken
1.	Students securing more than 80% marks in mid-term and assignment	✓ Students are encouraged to participate in various regional, state or national level competitions like Smart India Hackathon and inter-college competitions. ✓ To enhance skills, special assignments are being given to the students. ✓ Bright students are encouraged to enroll in online courses through platforms like NPTEL, COURSERA, UDEMY, GREATLEARNING. ✓ Students are motivated to participate in various technical competitions and project expo conducted by the clubs/cells of the institution.
2.	University rank holders / Class Toppers	✓ Awarded with prestigious gold, silver and bronze medal with substantial cash prizes.

2.2.2   IMPACT ON BRIGHT STUDENTS

1. Proficiency in programming languages shall be enhanced.
2. Students' participation in various technical events increased and demonstrated their capability through participation in project competitions like hackathons.
3. Opportunities for placements shall be enhanced.
4. Increased engagement and success in inter-institute events and competitions.
5. Communication and interpersonal skills of students shall increase considerably.
6. Improvement in end semester results.

In view of the above, Panipat Institute of Engineering and Technology aims at:

1. Identification of weak students.
2. Following the progress of weak students and assisting them in improving their academic performance.
3. Identification of bright students.
4. Providing and exploring opportunities to bright students to explore and enhance their capabilities and skills.

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