

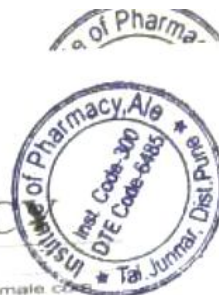


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CRITERION : 2

Program Curriculum and Teaching-Learning Processes

50

2.3 INITIATIVES IN TEACHING AND LEARNING PROCESS (15)

(Implementation of teaching learning process and Initiatives in improving instruction methods, the quality of laboratory experiments with regard to conduct, record observations, analysis and continuous evaluation, encouraging bright students, assisting weak students etc. The initiatives, implementation details and impact analysis need to be documented)

In VJSM'S IOP, the teaching and learning process begins with an Induction program for the freshly admitted students.

The main aim of the induction program is to orient the students towards professional education and the students are made aware of POs & PEOs during the induction itself.

The students are also made aware of various courses to be taught during the program levels and are acquainted with the Exam Regulation and evaluation parameters set by MSBTE.

VJSM'S IOP firmly believes in blended techniques of teaching comprising of use of modern ICT tools along with traditional chalk and board system.

Course Incharge for standard teaching follows CIAAN Norms under which they maintain session plan, plan for lecture execution, and continuous assessment statements along with attendance record in their course files.

Apart from classical class room lecture delivery system of teaching, innovative methods of teaching are adopted by the faculty members of the department for effective teaching learning. Concept based teaching with the use of ICT tools: With the help of Power Point Presentation the contents from the syllabus are explained to the students and the whole topic is analyzed with rapid questioning and questions for assignments based on the topics are allotted to the students.

Interactive classrooms

Interactive class rooms are the effective ways of achieving the program outcomes (POs) and course outcomes (COs). The course outcomes could not be better achieved without these. Lectures are the best ways to get facts, make students to think and understand the concepts.

The teacher is readily available to clear the doubts instantaneously. Thus these make a platform to cover and improve the ability to design, formulate and solve problems.

Web based learning:

The internet is an open information system from where the students can obtain various kinds of information, media and materials as texts, images, video sequences which can help them in a



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diverse way for generating self-learning environments. Due to its interactivity, learners can gather information which is important in learning and helpful in accomplishing their learning objectives. Therefore, the Institute provides internet facility in both the academic and hostel campuses for 24 hr. The availability of internet facility allows them to learn and to gather the information from worldwide network without any interruptions.

Bridge Class:

The students scoring less than 40 % marks are identified as weak students and the remedial classes are planned and conducted to enhance the learning ability of weak students and the impact analysis of the same is conducted and documented for future references.

Weak students are continuously mentored by the mentor faculty during their mentoring sessions for their academic progress and difficulty. Similarly, the students scoring more than 60% marks are identified as bright students.

Learning by doing :

The practical's for lab work based on contents of syllabus are designed considering the facts that the students can better understand the concepts by actual performance of procedures to facilitate their learning. All labs are well equipped with sophisticated instruments with Standard Operating Procedure. Medicinal plant garden, Machine room and Language Lab. have been developed by the institute. Focus is given on developing the abilities and skills of students for lifelong learning.

Various activities like poster competitions, paper presentation competitions and technical quiz are conducted in the institute by the department to motivate the students to prepare topics from syllabus for their better learning.

Time to time visits to industries and hospitals are organized so that the students can have the first hand experience of industrial working.

Theme based Museums are displayed in the premises for the ease of learning to the students.

Delivery of Content Beyond Syllabus :

Various pedagogical initiatives are taken by the department to deliver the content beyond the syllabus by using visual charts, videos, e-learning through Digital library etc.

The guest lectures of resource persons from industry, hospitals and academia are regularly organized during the sessions with prior planning in academic calendars.

To motivate the self learning in the students, syllabus content based assignments are given to the students and tutorials are conducted. The impact of each and every method is analyzed by the faculty of department.

The records of lab work are evaluated by Course Incharge with continuous assessment.

The internal assessment of students is also carried out on the basis of continuous evaluation through the Progressive Theory Test and Progressive Skill Test.



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For maintaining transparency in evaluation process, the assessed answer sheets are shown to the students with the suggestive measure for improvement.

The institute follows feedback mechanism from the students and the ratings are given on various parameters in the scale of five in a fixed feedback format framed by the institute.

The reports of the feedbacks are analyzed by the H.O.D. and reports are submitted to the Principal for necessary action.

Course Outcome and Program Outcome attainments are calculated after completion of the session for which the question papers for internal and external theory exam and Progressive Skill Test are mapped with COs and POs. The attainment of COs are calculated with the help of direct and indirect methods for attaining the Pos.

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