

## Criterion- 2: Teaching and Learning Evaluation

### 2.5 Evaluation Process and Reforms

In line with AICTE examinations reforms policy and the directions of the Affiliating University JNTUK Kakinada. The Institute DIET-Dadi Institute of Engineering and Technology (U4) will follow the Internal Assessment Planning, Conduction and Assessment.

- The Mid Examination Question Paper will be prepared as per Bloom's taxonomy.
  - For Under Graduate (UG)-up to Level-3
  - For Post Graduate (PG)-up to-Level-5

#### As per AICTE Assessment Planning is as follows:

While using Bloom's taxonomy framework in planning and designing of assessment of student learning, following points need to be considered:

1. Normally the first three learning levels; remembering, understanding and applying and to some extent fourth level analyzing are assessed in the Continuous Internal Evaluation (CIE) and Semester End Examinations (SEE), where students are given a limited amount of time. And abilities; analysis, evaluation and creation can be assessed in extended course works or in a variety of student works like course projects, mini/ minor projects, internship experience and final year projects.

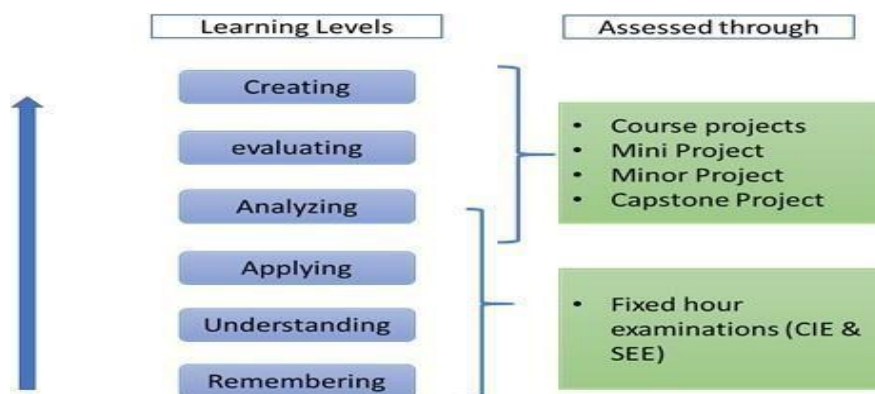


Figure: Assessment methods for different Bloom's cognitive levels

2. Before adopting this framework for reforms in examination system of a University/Institution, it is worthwhile to study the present pattern of assessment in each of the course in the program to gain insight about:

- a) Alignment of assessment questions with course learning outcomes
- b) Whether all the learning outcomes are tested; sometimes some learning outcomes are over tested at the expense of others which may be not tested at all.
- c) Overall weightage in the assessment, to each of Bloom's learning levels
- d) Assessment methods used to adequately assess the content and desired learning outcomes

Based on the study, improvement priorities for each of the above factors need to be arrived at. The reform process needs to be well planned and implemented through institutional strategy and communicated to all stakeholders particularly to the students.

3. A good and reasonable examination paper must consist of various difficulty levels to accommodate the different capabilities of students. Bloom's taxonomy framework helps the faculty to set examination papers that are well balanced, testing the different cognitive skills without a tilt towards a tough or easy paper perception. If the present examination questions are more focused towards lower cognitive skills, conscious efforts need to be made to bring in application skills or higher cognitive skills in the assessment. It is recommended that at institution/ University level, upper limit need to be arrived for lower order skills (for example, no more than 40% weightage for knowledge-oriented questions). It is important to note that, as nature of every course is different, the weightage for different cognitive levels in the question papers can also vary from course to course.

**2.5.1 Mechanism of internal assessment is transparent and robust in terms of frequency and mode**

	<b>R19</b>	<b>R20</b>
<p><b><u>Internal Evaluation for Theory Subjects</u></b></p>	<p>During the semester there shall be two internal tests &amp; the weightage of Internal marks for 25 consists of Descriptive – 10, Assignment - 05 (Theory, Design, Analysis, Simulation, Algorithms, Drawing, etc. as the case may be and for Physics, Virtual Labs to be considered as Assignments) Objective -10 (Conducted at College level with 20 Multiple choice question with a weightage of 1/2 Mark each). Each subjective type test question paper consists of 3 questions and all questions need to be answered. The Objective examination conducted for 10 marks and subjective examination conducted for 10 marks are to be added to the assignment marks of 5 for finalizing internal marks for 25.</p>	<p>During the semester there shall be two mid-term examination for theory subjects &amp; the weightage of Internal marks for 30 consists of Descriptive – 15 marks, Assignment - 05 marks Objective -10 marks (Conducted at College level with 20 Multiple choice question with a weightage of 20* 1/2 Mark each). Each subject descriptive test question paper consists of 3 questions and all questions need to be answered. The Objective examination conducted for 10 marks and subjective examination conducted for 15 marks are to be added to the assignment marks of 5(The assignment is given by the concerned subject teacher) for finalizing internal marks for 30. Mid-1 marks = Marks secured in (online examination-1+descriptive examination-1 +one assignment-1) Mid-2 marks = Marks secured in (online examination-2+descriptive examination-2 +one assignment-2) Final internal Marks = (Best of (Mid-1/Mid-2) marks x 0.8 + Least of (Mid-1/Mid-2) marks x 0.2)</p>
<p><b><u>Internal Evaluation for Practical Subjects</u></b></p>	<p>For practical subjects there shall be continuous evaluation during the semester for 20 internal marks which are awarded as follows: Day to Day work - 5 marks, Record-5 marks and the remaining 10 marks are awarded by conducting an internal laboratory test</p>	<p>For practical subjects there shall be continuous evaluation during the semester for 15 internal marks which are awarded as follows: Day to Day work - 5 marks, Record-5 marks and the remaining 5 marks are awarded by conducting an internal laboratory test.</p>

<p style="text-align: center;"><b><u>Internal Evaluation for design and / or drawing Subjects</u></b></p>	<p>The distribution of 25 marks for internal evaluation is given as 15 marks for day – to – day work, and 10 marks for internal tests. Two internal tests are conducted in a Semester and the Marks for 10 are calculated with 80% weightage for best of the two tests and 20% weightage for other tests and these are to be added to the marks obtained in day to day work.</p>	<p>The distribution shall be 30 marks for internal evaluation (15 marks for day to day &amp; 15 marks for Internal test ) There shall be two internal tests in a Semester for 15 marks each and final marks can be calculated with 80% weightage for better of the two tests and 20% weightage for other tests and these are to be added to the marks obtained in day-to-day work.</p>
<p style="text-align: center;"><b><u>Internal Evaluation for Seminar</u></b></p>	<p>For Mini Project with Seminar, there will be only internal evaluation of 100 marks. A candidate has to secure a minimum of 50% of marks to be declared successful.</p>	<p>For the seminar, Each student is evaluated based on the presentation of any latest topic with a report of 10-15 pages and a PPT of min 10 slides. The seminar report is evaluated for 50 marks by the Departmental committee consisting of the Head of the department, seminar supervisor and a senior faculty member. There is no external examination for the seminar.</p>
<p style="text-align: center;"><b><u>Internal Evaluation for Project</u></b></p>	<p><b><u>Project Part-I:</u></b></p> <p>The project work is evaluated internally for 20 marks The supervisor assesses the student for 10 marks (Continuous Assessment: 5 marks, Report –5 marks) and remaining 10 marks by conducting two seminars given by each student on the topic of his/her project work and evaluated by an internal committee consisting of the Head of the department, project supervisor and a senior faculty member.</p>	<p>The project work is evaluated internally for 60 marks by conducting two seminars given by each student on the topic of his/her project work and evaluated by an internal committee consisting of the Head of the department, project supervisor and a senior faculty member.</p>

	<p><b><u>Project Part -II:</u></b>  The project work is evaluated internally for 60 marks The supervisor assesses the student for 30 marks (Continuous Assessment: 15 marks, Report – 15 marks) and remaining 30 marks by conducting two seminars given by each student on the topic of his/her project work and evaluated by an internal committee consisting of the Head of the department, project supervisor and a senior faculty member.</p>	
<p><b><u>Internal Evaluation for Mandatory Course (M.C):</u></b></p>		<p>Two internal examinations shall be conducted for 30 marks and a student has to secure at least 40% of the marks for passing the course. There is no online internal exam for mandatory courses. No marks or letter grade shall be printed in the transcripts for all mandatory non-credit courses, but only Completed (Y)/Not-completed (N) will be specified</p>
<p><b><u>Internal Evaluation for Internships</u></b></p>		<p>The minimum duration of this course shall be at least 6 weeks. There shall be no internal marks for Summer Internship.</p>
<p><b><u>Internal Evaluation for Job Oriented Skill Courses</u></b></p>		<p>There are no internal marks for the job-oriented skill courses.</p>



# DADI INSTITUTE OF ENGINEERING & TECHNOLOGY

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An ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Institute.

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## **INTERNAL ASSESSMENT FOR R19 REGULATION**

The following is the Internal Evaluation process applicable for all the students of B.Tech. (REGULAR) from the Academic Year 2019-20 onwards as per JNTUK ACADEMIC REGULATIONS (R19) :

The performance of a student in each semester shall be evaluated subject – wise with a maximum of 100 marks for theory subject and 50 marks for practical subject. The project work shall be evaluated for 200 marks.

### **1. Internal Evaluation for Theory Subjects:**

For all the UG courses of Civil, EEE, ECE & CSE the following process is followed for the internal evaluation of theory subjects:

During the semester there shall be two internal tests & the weightage of Internal marks for 25 consists of Descriptive – 10, Assignment - 05 (Theory, Design, Analysis, Simulation, Algorithms, Drawing, etc. as the case may be and for Physics, Virtual Labs to be considered as Assignments) Objective -10 (Conducted at College level with 20 Multiple choice question with a weightage of 1/2 Mark each).

Each subjective type test question paper consists of 3 questions and all questions need to be answered. The Objective examination conducted for 10 marks and subjective examination conducted for 10 marks are to be added to the assignment marks of 5 for finalizing internal marks for 25.

Internal Marks can be calculated with 80% weightage for best of the two Mids and 20% weightage for other Mid Exam

### **2. Internal Evaluation for Practical Subjects:**

For all the UG courses of Civil, EEE, ECE & CSE the following process is followed for the internal evaluation of practical subjects:



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For practical subjects there shall be continuous evaluation during the semester for 20 internal marks which are awarded as follows:

Day to Day work - 5 marks, Record-5 marks and the remaining 10 marks are awarded by conducting an internal laboratory test.

### **3. Internal Evaluation for design and / or drawing Subjects:**

The following process is followed for the internal evaluation of design and/or drawing subjects such as Engineering Graphics, Engineering Drawing, Machine Drawing and estimation:

The distribution of 25 marks for internal evaluation is given as 15 marks for day – to – day work, and 10 marks for internal tests. Two internal tests are conducted in a Semester and the Marks for 10 are calculated with 80% weightage for best of the two tests and 20% weightage for other tests and these are to be added to the marks obtained in day to day work.

### **4. Internal Evaluation for Project:**

#### **Project Part-I:**

The project work is evaluated internally for 20 marks The supervisor assesses the student for 10 marks (Continuous Assessment: 5 marks, Report –5 marks) and remaining 10 marks by conducting two seminars given by each student on the topic of his/her project work and evaluated by an internal committee consisting of the Head of the department, project supervisor and a senior faculty member.

#### **Project Part -II:**

The project work is evaluated internally for 60 marks The supervisor assesses the student for 30 marks (Continuous Assessment: 15 marks, Report –15 marks) and remaining 30 marks by conducting two seminars given by each student on the topic of his/her project work and evaluated by an internal committee consisting of the Head of the department, project supervisor and a senior faculty member.



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**The following is the Internal Evaluation process applicable for all the students of M.Tech. (REGULAR) from the Academic Year 2019-20 onwards as per JNTUK ACADEMIC REGULATIONS (R19) :**

The performance of a student in each semester shall be evaluated subject – wise with a maximum of 100 marks for theory subject and 100 marks for practical subject. The project work shall be evaluated for 200 marks.

## **1. Internal Evaluation for Theory Subjects:**

For all the PG courses of ME, EEE, ECE & CSE the following process is followed for the internal evaluation of theory subjects:

During the semester there shall be two internal tests & the weightage of Internal marks for 25 consists of Descriptive – 40. Each subjective type test question paper consists of 4 questions and all questions need to be answered. The internal evaluation shall be made based on the average of the marks secured in the two Mid Term-Examinations.

## **2. Internal Evaluation for Practical Subjects:**

For all the PG courses of ME, EEE, ECE & CSE the following process is followed for the internal evaluation of practical subjects:

For practical subjects there shall be continuous evaluation during the semester for 25 internal marks which are awarded as follows: Day to Day work - 5 marks, Record-5 marks and the remaining 15 marks are awarded by conducting an internal laboratory test.

## **3. Mini Project with Seminar:**

For Mini Project with Seminar, there will be only internal evaluation of 100 marks. A candidate has to secure a minimum of 50% of marks to be declared successful.





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## **Project:**

The candidate has to submit his/her status report in two stages to the PRC, at least with a gap of 3 months and is evaluated by an internal review committee. If the report of the internal review committee is favorable, Viva - Voce examination will be conducted by the university consisting of the Supervisor, Head of the Department and the Examiner who adjudicated the Thesis.

**The following is the Internal Evaluation process applicable for all the students of MBA. (REGULAR) from the Academic Year 2019-20 onwards as per JNTUK ACADEMIC REGULATIONS (R19) :**

The performance of a student in each semester shall be evaluated subject – wise with a maximum of 100 marks for theory & practical subject. The project work shall be evaluated for 100 marks.

### **1. Internal Evaluation for Theory Subjects:**

For the PG courses of management, the following process is followed for the internal evaluation of theory subjects:

During the semester there shall be two internal tests & the weightage of **Internal marks are 25.**

- i) 25 marks for internal assessment, 10 marks are for seminar /presentation and 15 marks are based on average of two mid-term examinations.
- ii) 10 marks for presentation (5 marks are for report content and 5 marks are for presentation).
- iii) Each mid-term examination is conducted for 15 marks with one and half hours (90mins) duration. Each mid-term examination consists of three questions, each for 5 marks. All the questions need to be answered.
- iv) The final marks are the sum of average of two mid-term examinations for 15 marks and 10 Marks for presentation.

### **2. Internal Evaluation for Practical Subjects:**

For the PG courses of management, the following process is followed for the internal evaluation of practical subjects:

There shall be continuous evaluation by the internal subject teacher during the semester for 20 internal marks. Out of 20 marks for internal, 10 marks shall be for day-to-day performance (5 marks for day-to-day evaluation and 5marks for Record) and 10 marks shall be evaluated by conducting an internal test conducted at the end of semester.



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## **Comprehensive Viva-Voce:**

Comprehensive Viva-Voce examination is conducted in all the subjects of four semesters of the course for 50 marks (internal evaluation only) at the end of fourth semester by a committee consisting of two senior faculty members of the department along with HOD.



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## **INTERNAL ASSESSMENT FOR R20 REGULATION**

The following is the Internal Evaluation process applicable for all the students of B.Tech. (REGULAR) from the Academic Year 2020-2021 onwards as per JNTUK ACADEMIC REGULATIONS (R20) :

The performance of a student in each semester shall be evaluated subject wise with a maximum of 100 marks for theory subject and 50 marks for practical subject. The project work shall be evaluated for 200 marks.

### **1. Internal Evaluation for Theory Subjects:**

For all the UG courses of Civil, EEE, ECE ,CSE, CSM(AI&ML) & CSD(Data Science) the following process is followed for the internal evaluation of theory subjects:

During the semester there shall be two mid-term examination for theory subjects & the weightage of Internal marks for 30 consists of Descriptive – 15marks, Assignment - 05 marks Objective -10marks (Conducted at College level with 20 Multiple choice question with a weightage of 20\* 1/2 Mark each).

Each subject descriptive test question paper consists of 3 questions and all questions need to be answered. The Objective examination conducted for 10 marks and subjective examination conducted for 15 marks are to be added to the assignment marks of 5(The assignment is given by the concerned subject teacher) for finalizing internal marks for 30.

Mid-1 marks = Marks secured in (online examination-1+descriptive examination-1 +one assignment-1)

Mid-2 marks = Marks secured in (online examination-2+descriptive examination-2 +one assignment-2)

Final internal Marks = (Best of (Mid-1/Mid-2) marks x 0.8 + Least of (Mid-1/Mid-2) marks x 0.2)

### **2. Internal Evaluation for Practical Subjects:**

For all the UG courses of Civil, EEE, ECE ,CSE, CSM(AI&ML) & CSD(Data Science) the following process is followed for the internal evaluation of practical subjects:



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For practical subjects there shall be continuous evaluation during the semester for 15 internal marks which are awarded as follows:

- Day to Day work - 5 marks, Record-5 marks and the remaining 5 marks are awarded by conducting an internal laboratory test.

### **3. Internal Evaluation for design and / or drawing Subjects:**

The following process is followed for the internal evaluation of the subjects having Design& or / Drawing such as Engineering Graphic, Engineering Drawing Machine Drawing & Estimation.

The distribution shall be 30 marks for internal evaluation (15 marks for day to day & 15 marks for Internal test )

There shall be two internal tests in a Semester for 15 marks each and final marks can be calculated with 80% weightage for better of the two tests and 20% weightage for other test and these are to be added to the marks obtained in day-to-day work.

### **4. Internal Evaluation for Seminar:**

For the seminar, Each student is evaluated based on the presentation of any latest topic with a report of 10-15 pages and a PPT of min 10 slides. The seminar report is evaluated for 50 marks by the Departmental committee consisting of the Head of the department, seminar supervisor and a senior faculty member. There is no external examination for the seminar.

### **5. Internal Evaluation for Mandatory Course (M.C):**

Two internal examinations shall be conducted for 30 marks and a student has to secure at least 40% of the marks for passing the course. There is no online internal exam for mandatory courses. No marks or letter grade shall be printed in the transcripts for all mandatory non-credit courses, but only Completed (Y)/Not-completed (N) will be specified.

### **6. Internal Evaluation for Project:**

The project work is evaluated internally for 60 marks by conducting two seminars given by each student on the topic of his/her project work and evaluated by an internal committee consisting of the Head of the department, project supervisor and a senior faculty member.



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## **7. Internal Evaluation for Internships:**

The minimum duration of this course shall be at least 6 weeks. There shall be no internal marks for Summer Internship.

## **8. Internal Evaluation for Job Oriented Skill courses:**

There are no internal marks for the job-oriented skill courses.