



Bansilal Ramnath Agarwal Charitable Trust's
VISHWAKARMA INSTITUTE OF TECHNOLOGY, PUNE-37
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

Academic Year 2025-26- Assessment Details

S.Y. B.Tech.

I. Courses with emphasis on Practical's

Sr. No.	Type of Assessment	Conduction	Marks
1	Laboratory work	During laboratory turns	100 Marks converted to 10 equivalent Marks
2	Course Project	End Semester Assessment	100 Marks converted to 30 equivalent Marks
3	Comprehensive Viva Voce	End Semester Assessment	100 Marks converted to 20 equivalent Marks
4	Programming Practical	End Semester Assessment	100 Marks converted to 40 equivalent Marks

Note: Department wise list of courses is given separately in this document in Part IX.

II Courses with Lab

Sr. No.	Type of Assessment	Conduction	Marks
1	Laboratory work	During laboratory turns	100 Marks converted to 10 equivalent Marks
2	Course Project	End Semester Assessment	100 Marks converted to 30 equivalent Marks
3	Comprehensive Viva Voce	End Semester Assessment	100 Marks converted to 20 equivalent Marks
4	Written Examination/MCQ/ESE	End Semester Assessment	60 Marks converted to 40 equivalent Marks

III. Courses with Theory, Lab and Tutorial

Sr. No.	Type of Assessment	Conduction	Marks
1	Presentation/ Group Discussion/ Home Assignment	In Semester Assessment (Week 5,6,7,8)	30 Marks assessment (Part A)
		End Semester Assessment	70 Marks assessment (Part B)
			Total 100 Marks (Part A + Part B) Converted to 20 equivalent Marks
2	Laboratory Work/Assessment	End Semester Assessment	100 Marks converted to 10 equivalent Marks
3	Course Project	End Semester Assessment	100 Marks converted to 30 equivalent Marks
4	Written Examination/ MCQ/ESE	End Semester Assessment	60 Marks converted to 40 equivalent Marks



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IV Courses with Tutorial

Sr. No.	Type of Assessment	Conduction	Marks
1	Presentation/Group Discussion	During Tutorial turns	100 Marks converted to 30 equivalent Marks
2	Comprehensive Viva Voce	During Tutorial turns	100 Marks converted to 30 equivalent Marks
3	Written Examination/MCQ/ESE	End Semester Assessment	60 Marks converted to 40 equivalent Marks

V. Credit Theory Course- (Sub. With Theory only)

Sr. No.	Type of Assessment	Conduction	Marks
1	Class Test-1 /Online Test 1	In 6 th Week, Based on unit 1 and unit 2	35 Marks converted to 35 equivalent Marks
2	Class Test-2/Online Test 2	In 12 th Week, Based on unit 3 and unit 4	35 Marks converted to 35 equivalent Marks
3	Comprehensive Viva Voce	End Semester Assessment Based on all Units	100Marks converted to 30 equivalent Marks

VI. Engineering Design and Innovation Project

Sr. No.	Type of Assessment	Conduction	Marks
1	Project activity Presentation	Mid Semester	50 Marks converted to 30 equivalent Marks
2	Project activity Presentation & Demonstration	End Semester	100 Marks converted to 70 equivalent Marks

VII. Reasoning and Aptitude Development

Sr. No.	Type of Assessment	Conduction	Marks
1	English Ability	In 14 th Week	100 Marks converted to 30 equivalent Marks
2	Logical Ability	In 14 th Week	100 Marks converted to 30 equivalent Marks
3	Quantitative Ability	In 14 th Week	100 Marks converted to 30 equivalent Marks
4	Automata Fix	In 14 th Week	100 Marks converted to 05 equivalent Marks
5	Automata Pro	In 14 th Week	100 Marks converted to 05 equivalent Marks

Final mark entry in VIERP Continuous assessment (CA) out of 100

VIII. Humanities and Social Science Course

Sr. No.	Type of Assessment	Conduction	Marks
1	MCQ / MSE	Mid Semester Assessment	50 Marks converted to 50 equivalent Marks
2	MCQ / ESE	End Semester Assessment	50 Marks converted to 50 equivalent Marks



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IX .MDM

Sr. No.	Type of Assessment	Conduction	Marks
1	Class Test-1/ Online Test 1	In 6 th Week, Based on unit 1 and unit 2	35 Marks converted to 35 equivalent Marks
2	Class Test-2 / Online Test 2	In 12 th Week, Based on unit 3 and unit 4	35 Marks converted to 35 equivalent Marks
3	Comprehensive Viva Voce	End Semester Assessment Based on all Units	100 Marks converted to 30 equivalent Marks



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T.Y. B. Tech.

I. Courses with Theory, Lab and Tutorial

Sr. No.	Type of Assessment	Conduction	Marks
1	Presentation/ Group Discussion/ Home Assignment	Week 5,6,7,8	30 Marks assessment (Part A)
		End Semester Assessment	70 Marks assessment (Part B) Total 100 Marks (Part A+ Part B) Converted to 20 equivalent Marks
2	Laboratory Work	End Semester Assessment	100 Marks converted to 10 equivalent Marks
3	Course Project	End Semester Assessment	100 Marks converted to 20 equivalent Marks
4	Written Examination/ MCQ	End Semester Assessment	60 Marks converted to 30 equivalent Marks
5	Comprehensive Viva Voce	End Semester Assessment	100 Marks converted to 20 equivalent Marks

II. Courses with Programming activity

Sr. No.	Type of Assessment	Conduction	Marks
1	Laboratory work	During laboratory turns	100 Marks converted to 10 equivalent Marks
2	Course Project	End Semester Assessment	100 Marks converted to 20 equivalent Marks
3	Comprehensive Viva Voce	End Semester Assessment	100 Marks converted to 20 equivalent Marks
4	Programming Practical	End Semester Assessment	100 Marks converted to 50 equivalent Marks

Note: Department wise list of courses is given separately in this document in Part IX.

III. Engineering Design and Innovation Project

Sr. No.	Type of Assessment	Conduction	Marks
1	Project activity Presentation	Mid Semester	50 Marks converted to 30 equivalent Marks
2	Project activity Presentation & Demonstration	End Semester	100 Marks converted to 70 equivalent Marks



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A. Reasoning and Aptitude Development

(For Computer, IT, AIDS, CSE-AIML and CSE-AI Branches)

Sr. No.	Type of Assessment	Conduction	Marks
1	English Ability	In 14 th Week	100 Marks converted to 20 equivalent Marks
2	Logical Ability	In 14 th Week	100 Marks converted to 20 equivalent Marks
3	Quantitative Ability	In 14 th Week	100 Marks converted to 20 equivalent Marks
4	Automata Fix	In 14 th Week	100 Marks converted to 10 equivalent Marks
5	Automata Pro	In 14 th Week	100 Marks converted to 10 equivalent Marks
6	Domain Specific Component	In 14 th Week	100 Marks converted to 10 equivalent Marks
7	Node.JS	In 14 th Week	100 Marks converted to 5 equivalent Marks
8	React.JS	In 14 th Week	100 Marks converted to 5 equivalent Marks

Final mark entry in VIERP Continuous assessment (CA) out of 100

B. Reasoning and Aptitude Development

(For E&TC, Instrumentation and Mechanical Branches)

Sr. No.	Type of Assessment	Conduction	Marks
1	English Ability	In 14 th Week	100 Marks converted to 20 equivalent Marks
2	Logical Ability	In 14 th Week	100 Marks converted to 20 equivalent Marks
3	Quantitative Ability	In 14 th Week	100 Marks converted to 20 equivalent Marks
4	Automata Fix	In 14 th Week	100 Marks converted to 10 equivalent Marks
5	Automata Pro	In 14 th Week	100 Marks converted to 10 equivalent Marks
6	Domain Specific Component	In 14 th Week	100 Marks converted to 20 equivalent Marks

Final mark entry in VIERP Continuous assessment (CA) out of 100



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I. Final year B. Tech. Courses

Sr. No.	Type of Assessment	Conduction	Marks
1	MCQ Exam-Section I / MSE	Mid Semester	30 Marks converted to 30 equivalent Marks
2	Home Assignment	End of Semester	100 Marks converted to 10 equivalent Marks
3	MCQ Exam-Section II / ESE	End of Semester	30 Marks converted to 30 equivalent Marks
4	Comprehensive Viva Voce	End of Semester	100 Marks converted to 30 equivalent Marks

II. Coursera Track Certification (In semester-I)

Sr. No.	Type of Assessment	Conduction	Marks
1	End of module Quiz, Assignment, Module Project, Course Project, Track Project as applicable / ESE	Continuous Assessment till Semester End	100 Equivalent Marks Student to choose appropriate Track specialization. Applicable Assessment scheme under consideration for earning 100 equivalent Marks

III Major Project & Semester Internship

Sr. No.	Type of Assessment	Conduction	Marks
1	Project/Internship activity Presentation	Mid Semester	50 Marks converted to 30 equivalent Marks
2	Project/Internship activity Presentation & Demonstration	End Semester	100 Marks converted to 70 equivalent Marks



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Assessment Rubrics

I. Presentation Assessment

Details of Assessment -100 Marks to be converted to 20 Marks.

Partial assessment to be conducted during the 5th, 6th, 7th and 8th week of the Academic Semester for 50 marks

Format for Assessment

Sr. No.	Parameter	Marks
1	Survey about the topic	15
2	Appropriateness and relevance of references	15
3	Technical content coverage	20
	TOTAL	50

50 marks to be converted to 30 AND Summative assessment to be conducted during End of the Academic semester for 100 marks

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Format for Assessment

Sr. No.	Parameter	Marks
1	Contents of slides	25
2	Understanding of concepts	25
3	Presentation Skills	25
4	Performance in Question-and-Answer Session	25
	TOTAL	100

100 Marks to be converted to 70 marks



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II. Group Discussion

Details of Assessment-100 Marks to be converted to 20 Marks.

Partial assessment to be conducted during the 5th, 6th, 7th and 8th week of the Academic Semester for 50 marks

Format for Assessment

Sr. No.	Parameter	Marks
1	Survey about the topic	15
2	Technical content coverage during discussion	20
3	Ability to express technical views	15
	TOTAL	50

50 Marks to be converted to 30 marks AND Summative assessment to be conducted during End of the Academic Semester for 100 marks

Sr. No.	Parameter	Marks
1	Level of Participation	25
2	Knowledge of the Topic	15
3	Communication skills and Vocabulary	25
4	Critical Thinking	25
5	Overall Impression of Examiner	10
	TOTAL	100

100 Marks to be converted to 70 marks

Guidelines for assessment:

- a. Level of Participation: The student has enthusiastically demonstrated that the knowledge of the topic acquired from Theory, Tutorial, Laboratory, Project, Supplementary reading is reflected in the statements and arguments made during the Group Discussions. Has been an active orator and a passive listener at appropriate times during the Group Discussion
- b. Knowledge of the Topic: The student is thorough in the content and concepts associated with the fundamental and applied aspects of the Topic. The participant contributed to clarify or synthesize other Group Discussion members' ideas. If disagreeing with other Group Discussion members' ideas, the student stated disagreement or objections consistent with the underlying technical concept clearly, yet politely.
- c. Communication skill and vocabulary: The student effectively and politely communicated with the peers and the Moderator faculty, articulating the thoughts using appropriate Academic and Technical words. The student avoided the use of mixed or non-English vocabulary
- d. Critical Thinking: The student is able to think clearly, and rationally and is able to logically connect various aspects of the topic being discussed. The student retained the ability to reason and stay focused, despite distractions, clutter and diversion experienced, if any, during the progress of the Group discussion. The student was able to think about the facts that emerged during the Group Discussion spontaneously. This ability is not the ability acquired by accumulation of facts and knowledge learned once in the past and used forever.



Overall impression of the moderator faculty: The moderator faculty would quantify their impression on the basis of parameters such as, but not limited to-Time management, response and respect to peers and moderator faculty, ethics followed, arguments and counter arguments losing the decorum of the activity etc.

III. EDI Assessment

1. Mid Semester Assessment-50 Marks to be converted to 30 Marks.
2. End Semester Assessment-100 Marks to be converted to 70 Marks.

Format for Mid Semester Assessment

Sr. No.	Parameter	Marks
1	Problem Statement	10
2	Literature Review	10
3	Group formation and identification of individual responsibility	10
4	Objective of Project activity	10
5	Knowledge of domain, technology and tools being used	10
	TOTAL	50

Format for End Semester Assessment

Sr. No.	Parameter	Marks
1	Realization of project as per problem statement	10
2	Design & Testing	30
3	Documentation and Report Writing	20
4	Quality of Work	15
5	Performance in Question & Answers Session	15
6	Timely Completion of Project work	10
	TOTAL	100



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IV. MDM

Format for Assessment

Sr. No.	Parameter	Marks
1	Home Assignment	100 Marks converted to 30 equivalent Marks
2	Test - I	35 Marks converted to 35 equivalent Marks
3	Test - II	35 Marks converted to 35 equivalent Marks
	TOTAL	100



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V. Final Year B. Tech. Major Project

1. Mid Semester Assessment-50 Marks to be converted to 30 Marks.
2. End Semester Assessment-100 Marks to be converted to 70 Marks.

Format for Mid Semester Assessment

Sr. No.	Parameter	Marks
1	Problem Statement	10
2	Literature Review	10
3	Group formation and identification of individual responsibility	10
4	Objective of Project activity	10
5	Knowledge of domain, latest technology and modern tools Being used	10
	TOTAL	50

Format for End Semester Assessment

Sr. No.	Parameter	Marks
1	Realization of project as per problem statement	10
2	Design, Testing/Experimentation, Analysis/Validation	30
3	Documentation and Report Writing	20
4	Quality of Work	15
5	Performance in Question & Answers Session	15
6	Regular interaction with guide	10
	TOTAL	100



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VI. Final Year Semester Internship

1. Mid Semester Assessment - 50 Marks to be converted to 30 Marks.
2. End Semester Assessment - 100 Marks to be converted to 70 Marks.

Format for Mid Semester Assessment

Sr. No.	Parameter	Marks
1	Problem Statement	10
2	Literature Review	10
3	Clarity about the objectives of Internship activity	10
4	Requirement Analysis, Internship Planning	10
5	Knowledge of domain, Latest technology and Modern tools being used	10
	TOTAL	50

Format for End Semester Assessment

Sr. No.	Parameter	Marks
1	Realization of Internship as per problem statement	10
2	Design, Testing/Experimentation, Analysis/Validation	30
3	Documentation and Report Writing	20
4	Quality of Work	15
5	Performance in Question & Answers Session	15
6	Regular interaction with guide	10
	TOTAL	100

Note: For the End Semester Assessment, it is expected that the Internship company guide is also involved. The Department is required to set up communication with the Internship company guide regarding the End Semester Assessment, requesting their availability, in the interest of fair and rigorous assessment. No remuneration is to be paid to Internal company guide. They are expected to be involved along with Examiner/s in the finalization of Marks. The participation from the Internship company guide is voluntary. If the company guide opts not to join the assessment activity, it may then be done by the appointed examiners only.



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VII. Comprehensive Viva Voce

1. End Semester Assessment-100 Marks to be converted to 20 Marks.

Guidelines for assessment:

- The CVV enables a dielectric communication between the examiner/s and the student, providing invaluable experience for career interviews in future.
- The Comprehensive Viva Voce is a summative assessment. It is based on verbal interaction between Examiner/s and the students, covering the entire course contents.
- The student may be encouraged to explain the applicable concepts, ideas, views with the help of pen and paper/Whiteboard screen/Paint etc. if required.
- A balanced set of questions invoking diverse abilities such as analysis, synthesis, application, comparison, correlation, summary, classification, explanation, illustration, description etc. be setup, while covering entire course contents.
- Sufficient time is to be given for every student during the Viva Voce, to demonstrate the requisite abilities before arriving at the summative assessment score.



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VIII. Design Thinking

Scope:

Applicable for S.Y. B. Tech., T.Y.B. Tech. in both Semesters and for Final Year B. Tech. students (in Seventh Semester only) as 1 credit group activity

Objective:

To provide ecosystems to students for paper publication and patent filing

Outcome:

Publication of paper or filing of patent

Assessment and Grading:

Students will be assessed based on the outcome, i.e. published paper or status of patent. Grades to be awarded at the end of the Semester will be on the following basis -

Grade	Basis for Grade allocation
A+	Paper published in High impact Journals (Top 50 journal list will be given)/Patent Granted
A	Paper published in any SCI/Scopus/Web of science Journal/conference or Patent Published
B+	Paper Accepted for publication in SCI/Scopus/Web of science Journal/conference Or patent filed
B	Paper published in UGC Listed Journal
C+	International Conference Paper Publication (Non-Scopus and Non-SCI)
C	National Conference Paper Publication (Non-Scopus and Non-SCI)
D	Paper submitted to any Journal/Conference
F	No publication/No patent



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IX. Courses with Programming activity

Program	Course Code	Course Name
IT	IT2301	Data Structures
	IT2305	Operating System
	IT3202	System Programming
	IT3218	Artificial Intelligence
	IT3229	Cloud Computing
AI&DS	AI2301	Data Structures
	AI2303	Database Management Systems
	AI3001	Artificial Intelligence
	AI3002	Operating System
	AI3004	Machine Learning
	AI3011	Complexity Algorithms
	AI3012	Software Design & Methodologies
Computer	CS2303	Object Oriented Programming
	CS2304	Database Management Systems
	CS2305	Data Structures - I
	CS3205	Design And Analysis of Algorithms
	CS3061	Software Design AND Modeling
	CS3202	Artificial Intelligence
	CS3334	Cryptography And Information Security
E&TC	ET2301	Data Structures
	ET3221	Computer Vision
	ET3271	Embedded System Design
Mechanical	Nil	Nil
Instrumentation	IC2301	Data Science
	IC2305	Object Oriented Programming
	IC2307	Database Management Systems
Chemical	Nil	Nil



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Program	Course Code	Course Name
CS-AIML	ML2301	Fundamentals of Data Structures
	ML2302	Database Management Systems
	ML2303	Object Oriented Programming
	ML3002	Design And Analysis of Algorithms
	ML3003	Machine Learning
CS-AI	CI2011	Fundamentals of Data Structures
	CI2012	Database Management Systems
	CI2013	Object Oriented Programming
	CI3002	Design And Analysis of Algorithms
	CI3003	Artificial Neural Networks
	CI3004	Cloud Computing
Chemical	Nil	Nil
CS-DS	DS2003	Fundamentals of Data Structures And Algorithms
	DS2004	Fundamentals of Data Science
	DS2005	Object Oriented Programming
CS-SE	SE2003	Fundamentals of Data Structures
	SE2004	Database Management Systems
	SE2005	Operating System
	SE2006	Object Oriented Programming
CS-CBI	CB2003	Fundamentals of Data Structures
	CB2006	Object Oriented Programming

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Dean - Academics