



Bansilal Ramnath Agarwal Charitable Trust's

# **Vishwakarma Institute of Technology**

*(An Autonomous Institute Affiliated to Savitribai Phule Pune University)*

666, Upper Indiranagar, Bibwewadi, Pune 411 037

**Department of Information Technology**

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## **Feedback System for Curriculum Development for AY - 2023-24**

1. Stakeholder's Feedback collection,
2. Feedback Analysis,
3. Action Taken Report
4. Communicated to BoS
5. Hosted on Institutional Website



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**Department of Information Technology**

**Stakeholder's Feedback collected: Sample Teachers Feedback**

**Vishwakarma Institute of Technology** Issue 01 : Rev No. 00 : Dt. 01/08/22

Title: Stake Holders Feedback on Curriculum FF No. 750

Bansilal Ramnath Agarwal Charitable Trust's  
Vishwakarma Institute of Technology, Pune 37  
(An Autonomous Institute Affiliated to Savitribai Phule Pune University)

Faculty/ Parents/ Employer/ Alumni/ Students Feedback on Curriculum and Structure Design / Review

Department: AY: 2023-24  
Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

Q. No	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	10	
2	Potential for Employability.	10	
3	Curriculum covers the latest state of art topics.	9	
4	Reference material and books available.	9	
5	Blended learning and futuristic pedagogy.	8	
6	Evaluation methods for providing proper assessment.	9	
7	Hands-on component in the Curriculum is satisfactory.	8	
8	Covers of socially relevant issues.	9	
9	Curriculum gives inputs to students for business acumen and ethical practices.	9	
10	Knowledge gain through project-based learning / project centric learning.	10	

Comments (If Any):

Name: Dipali Dushpande  
Organization: VIT, Pune  
Sign: [Signature]  
Date: 18/5/2024

(Note: Feedback is to be taken at the end of every Academic Year from all stake holders)



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## Stakeholder's Feedback collected: Sample Employers Feedback

Vishwakarma Institute of Technology

Issue 01 : Rev No. 00 : Dt. 01/08/22

Title: Stake Holders Feedback on Curriculum

FF No. 750

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Vishwakarma Institute of Technology, Pune 37  
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Faculty/ Parents/ Employer/ Alumni/ Students Feedback on  
Curriculum and Structure Design / Review

Department: IT

AY: 2023-24

Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

Q. No	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	8	
2	Potential for Employability.	8	
3	Curriculum covers the latest state of art topics.	9	
4	Reference material and books available.	9	
5	Blended learning and futuristic pedagogy.	8	
6	Evaluation methods for providing proper assessment.	7	*
7	Hands-on component in the Curriculum is satisfactory.	8	
8	Covers of socially relevant issues.	7	*
9	Curriculum gives inputs to students for business acumen and ethical practices.	7	*
10	Knowledge gain through project-based learning / project centric learning.	8	

Comments (If Any): More focus on identifying realistic problem identification & solving, Lean six sigma logical approach will definitely help. More focus on social problems & how to become effective successful entrepreneurs & good human beings.

Name: Ajit A. Deshmukh

Organization: ATOS

Sign: Deshmukh

Date: 21.9.24.

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## Stakeholder's Feedback collected: Sample Alumni Feedback

Vishwakarma Institute of Technology

Issue 01 : Rev No. 00 : Dt. 01/08/22

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Faculty/ Parents/ Employer/ Alumni/ Students Feedback on  
Curriculum and Structure Design / Review

Department:

AY: 2023-24

Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

Question	Rating On 1-10 scale	Remarks
Bridge the gap between industry requirements and academia.	9	
Potential for Employability.	9	
Curriculum covers the latest state of art topics.	9	
Reference material and books available.	10	
Blended learning and futuristic pedagogy.	8	
Evaluation methods for providing proper assessment.	10	
Hands-on component in the Curriculum is satisfactory.	9	
Covers of socially relevant issues.	8	
Curriculum gives inputs to students for business acumen and ethical practices.	7	More correct alumnis
Knowledge gain through project-based learning / project centric learning.	9	

Comments (If Any):

Name: Yuvraj A. Shelke

Organization: TCS

Signature: [Handwritten Signature]

Date: 21 Sep '24

Note: Feedback is to be taken at the end of every Academic Year from all stake holders)



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## Department of Information Technology

### Stakeholder's Feedback collected: Sample Students Feedback

Title: Stake Holders Feedback on Curriculum

FF No. 750

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Faculty/ Parents/ Employer/ Alumni/ Students Feedback on  
Curriculum and Structure Design / Review

Department: Information Technology  
Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

AY: 2023 - 2024

Q. No	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	10	-
2	Potential for Employability.	9	-
3	Curriculum covers the latest state of art topics.	10	-
4	Reference material and books available.	9	-
5	Blended learning and futuristic pedagogy.	10	-
6	Evaluation methods for providing proper assessment.	10	-
7	Hands-on component in the Curriculum is satisfactory.	9	-
8	Covers of socially relevant issues.	10	-
9	Curriculum gives inputs to students for business acumen and ethical practices.	10	-
10	Knowledge gain through project-based learning / project centric learning.	10	-

Comments (If Any): —

Name: Tejas Bhat

Organization: VIT Pune, I.T

Sign: T. Bhat

Date: 18.05.2024

(Note: Feedback is to be taken at the end of every Academic Year from all stake holders)



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## Stakeholder's Feedback collected: Sample Parents Feedback

Vishwakarma Institute of Technology

Issue 01 : Rev No. 00 : Dt. 01/08/22

Title: Stake Holders Feedback on Curriculum

FF No. 750

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Faculty/ Parents/ Employer/ Alumni/ Students Feedback on  
Curriculum and Structure Design / Review

Department: Information Technology AY: 23-24

Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

Q. No	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	9	
2	Potential for Employability.	9	
3	Curriculum covers the latest state of art topics.	9	
4	Reference material and books available.	10	
5	Blended learning and futuristic pedagogy.	8	
6	Evaluation methods for providing proper assessment.	9	
7	Hands-on component in the Curriculum is satisfactory.	10	
8	Covers of socially relevant issues.	9	
9	Curriculum gives inputs to students for business acumen and ethical practices.	10	
10	Knowledge gain through project-based learning / project centric learning.	9	

Comments (If Any):

Name: Riddhi Khandikar

Organization:

Sign:

Date: 18/5/24

(Note: Feedback is to be taken at the end of every Academic Year from all stake holders)

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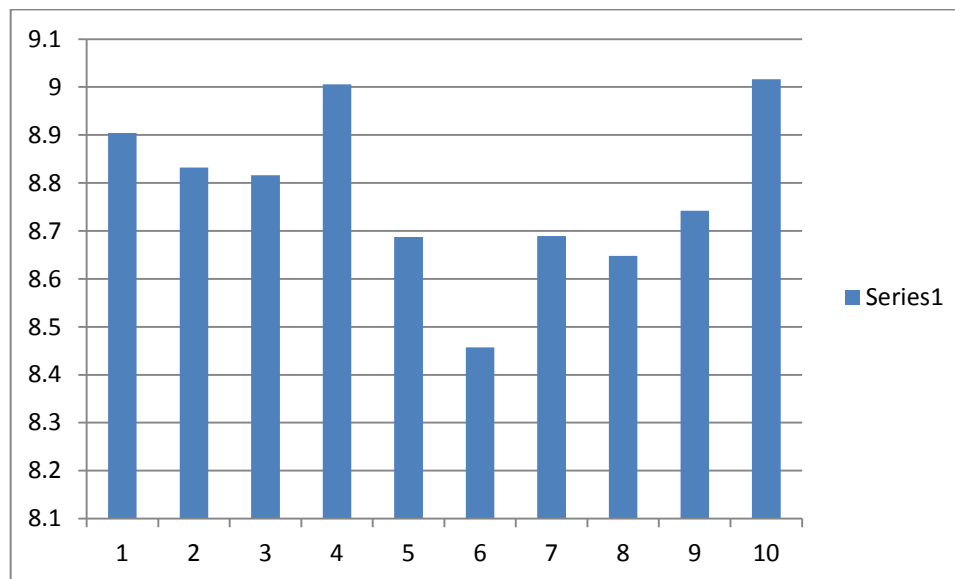
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## Stakeholder's feedback collection for A. Y. 2023-24 and Feedback Analysis

			Q. No.	1	2	3	4	5	6	7	8	9	10
2023-24	Students	36	Average score	8.805556	8.361111	8.694444	8.583333	8.861111	8.444444	8.361111	8.444444	8.805556	8.638889
	Teachers	14		9.545455	9.545455	9.090909	9.545455	8.909091	8.363636	8.818182	9.545455	8.636364	9.090909
	Employers	11		9	8.909091	9.090909	8.909091	8.545455	8.090909	8.545455	8.545455	9.090909	8.909091
	Alumni	7		7.545455	8.909091	8.454545	8.363636	8.181818	8.636364	8.909091	8.454545	8.363636	8.818182
	Parent	16		9.625	8.4375	8.75	9.625	8.9375	8.75	8.8125	8.25	8.8125	9.625
	Total	84		8.904293	8.832449	8.816162	9.005303	8.686995	8.457071	8.689268	8.64798	8.741793	9.016414





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### Descriptive Analysis of Stakeholder feedback

1. **Parents:** Based on analysis of feedback given by parents it is observed that:
  - a. Add some industry practices and standards
  - b. Knowledge gain through project-based learning is satisfactory
  - c. Appreciated for the encouragement given to students in overall development
  
2. **Students:** Based on analysis of feedback given by students it is observed that:
  - a. Demand to include courses which is versatile, iterative approach for real world problem-solving
  - b. Focus on areas that helps to gain innovative ideas
  - c. Overall assessment practices followed is satisfactory
  
3. **Teachers:** Based on analysis of feedback given by faculties it is observed that:
  - a. Include courses that forms both analytical and creative thinking for practicing real-world situations
  - b. Develop projects that incorporates novel ideas, research and approaches to solve existing problems
  - c. Focus on the need of creative projects
  
4. **Industry:** Based on analysis of feedback in IAB meeting it is observed that:
  - a. Upgrade the curriculum with user-centric, solutions-based approach that helps to adapt industry requirements
  - b. To enhance learning of Basic concepts
  - c. Focus on understanding principles for an effective and feasible business development that leads to innovation
  
5. **Alumini:** Based on analysis of feedback given by Alumini it is observed that:
  - a. Learning based on Blended and futuristic pedagogy need to be encouraged
  - b. Focus on courses that contributes to make independent choice and directly helps to develop Employability skills
  - c. Need to minimize the gap between industry and Academic
  - d. Time for completion of major project is less

**Over all Analysis:** Based on complete strategy of feedback given by all stakeholders it is observed to include some new courses which covers advance topics based on need of current technology and also which has more scope in the industry. Focus more on projects and its outcomes in terms of technical, research innovations, publications, etc.





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## **Action taken report for AY 2024-25**

1. Research focus made more rigorous by adding “**Design Thinking**” course of 1 credit in which students will publish mandatory paper based on previous semester project for final year students.
2. Industry sponsored course: For Final year under Open elective industry had conducted the course “**From Campus to Corporate**”.
3. “**Reasoning and Aptitude Development**” course of 1 credit is introduced for SY TY to improve the placement skill sets
4. To cover the advanced topics and based on need of current technology **COURSERA courses** are offered for Final year and TY students



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### **Department of Information Technology**

#### **Communication to the BoS-Information Technology**

#### **The Agenda of BOS meeting Dated 09.09.2024**

1. Updates about Department for AY 2023-24
2. To read and confirm the minutes of previous BOS
3. **Review of Stakeholder's feedback analysis for A.Y. 2023-24 and Approval for action taken report for A.Y. 2023-24**
4. Presentation and Approval of UG structure and Syllabus for A.Y. 2024-25
5. Any other point with the permission of Chair



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**Minutes of the Thirtieth meeting of Board of Studies, Department of Information Technology,  
Vishwakarma Institute of Technology, Pune- 411 037 held on Monday, 9-09- 2024 at 4.00pm**

Meeting No. : BOS/IT /30/2024

Date: 9-09-2024

**Venue:** Conference Hall, Department of Information Technology, Vishwakarma Institute of Technology, Pune.

30<sup>th</sup> BoS meeting was held offline as well as online mode on Google meet platform with following details:

**BOS MEET-Conference Hall, IT department: VIT, Pune**

BOS meeting

Monday, September 9 · 3:45 – 5:15pm

Time zone: Asia/Kolkata

Google Meet joining info

Video call link: <https://meet.google.com/own-nhdv-oyo>

Or dial: (US) +1 475-325-0924 PIN: 772 308 302#

The Meeting of the Board of studies of Department of Information Technology, Vishwakarma Institute of Technology, Pune-411037 was held on Monday, 9-09-2024 at 4:00 p.m.in Conference Hall, Department of Information Technology, Vishwakarma Institute of Technology, Pune.

**The following BoS members were present:**

1. Prof. (Dr.) Premanand P. Ghadekar (BOS Chairman)
2. Prof. (Dr.) P. S. Dhabe (Member Secretary)
3. Prof.(Dr.) Vahida Attar (Online mode)
4. Mr. Abhijeet Gattani (Online mode)
5. Mr. Swanand Kulkarni, Data Science Architect, Data Dynamics, Pune
6. Prof. (Dr.) P A Bailke
7. Prof. D. R. Deshpande
8. Prof. A. R. Sawant
9. Prof. D. J. Joshi
10. Miss Shristi Singh Student Representative
11. Mr. Parth More Student Representative

**Agenda:**

1. Vision and Misson
  2. New courses introduced in A.Y. 2024-25
  3. Structure/Syllabus approval AY 2024-25
  4. Stakeholder feedback analysis report AY 2023-24
  5. First Year Program core and Branch specific elective approval
  6. CO attainment process and report
  7. Any other if required
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The Chairman, BoS welcomed all BoS members and invited faculty.

Prof. D. R. Deshpande (Assistant Head, Academic-IT) extended a warm welcome to all the members of the Board of studies.

The Board of studies considered the items on the agenda and the items permitted Chair and following resolutions were passed.

**Item-1 : To read and confirm the minutes of the last meeting i.e. 19<sup>th</sup> January 2024 and share the action taken reports**

**Resolution : The minutes of the last meeting were read and confirmed.**

**Proposed by: Prof. Dr. P. P. Ghadekar**

**Seconded by: Prof Dr. P. S. Dhabe**

**Resolution unanimously passed.**

**Item-2 : Review of the following points were presented by Head of the Department, Prof. Dr. P. P Ghadekar sir,**

1. Vision Mission of the Institute and Department was presented and stated the accomplishment of vision and mission.
2. The addition of new courses for SY and TY based on placement feedback (ANNEXURE I).
3. The inclusion of the Coursera course track and its certification (ANNEXURE II) for the final year students
4. Syllabus and Structure of B.Tech- Information Technology for AY 2024-25. Hard copy of the syllabus was shown during the meeting. Stakeholder feedback analysis report was also discussed.(ANNEXURE III).
5. Inclusion of Industry supported course-Mainframe Technologies (BMC software) for TY IT students as an Audit course.
6. Based on NEP compliance inclusion of the Program core and Branch specific elective courses in the FY structure as listed below was discussed:
  1. **Program Core Courses:** Computer Organization and Architecture
  2. **Branch Specific Elective:**
    1. Web Development
    2. Hardware and Networking
    3. Data Analysis
  3. Python for Engineer
  4. Problem Solving and Programming
7. CO attainment procedure and report for the semester 2 of AY 2023-24 was presented and discussed the procedure. Also discussed the procedure for the Non-attainment of CO



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All BOS members appreciated the course based on **Reasoning and Aptitude**. For Coursera track courses Mr. Abhijeet sir and Prof Vahida madam suggested to include the **advance courses of AI, e.g Gen AI**. Further input was also given by Mr. Swanand sir regarding to make the Domain analysis of the pass out student who are working in the Industry so that content of courses can be updated based on this analysis.

**Resolution : All above points resolved and approved.**

**Proposed by: Prof. Dr. Vahida Attar , Mr. Abhijeet Gattani and Mr. Swanand Kulkarni**

**Seconded by: Prof. Dr. P. P. Ghadekar and Prof. D. R. Deshpande**

The meeting concluded with a vote of thanks and summary presented by Prof. Dr. P. A. Bailke madam to the BoS members and invited faculty.

[ Prof. (Dr.) P P Ghadekar ]  
**BOS Chairman**

**Enclosed:**

Annexure I: List of New courses for SY and TY with assessment scheme

Annexure II: Coursera track list for final year

Annexure III: UG structure AY 2024-25





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**ANNEXURE I:**

**SY: Reasoning and Aptitude Development**

Sr. No.	Type of Assessment	Conduction	Marks
1	English Ability	In 14 <sup>th</sup> Week	1000 Marks converted to 30 equivalent Marks
2	Logical Ability	In 14 <sup>th</sup> Week	1000 Marks converted to 30 equivalent Marks
3	Quantitative Ability	In 14 <sup>th</sup> Week	1000 Marks converted to 30 equivalent Marks
4	Automata Fix	In 14 <sup>th</sup> Week	100 Marks converted to 5 equivalent Marks
5	Automata Pro	In 14 <sup>th</sup> Week	100 Marks converted to 5 equivalent Marks

**TY: Reasoning and Aptitude Development**

Sr. No.	Type of Assessment	Conduction	Marks
1	English Ability	In 14 <sup>th</sup> Week	1000 Marks converted to 20 equivalent Marks
2	Logical Ability	In 14 <sup>th</sup> Week	1000 Marks converted to 20 equivalent Marks
3	Quantitative Ability	In 14 <sup>th</sup> Week	1000 Marks converted to 20 equivalent Marks
4	Automata Fix	In 14 <sup>th</sup> Week	100 Marks converted to 10 equivalent Marks
5	Automata Pro	In 14 <sup>th</sup> Week	100 Marks converted to 10 equivalent Marks
6	Domain Specific Component	In 14 <sup>th</sup> Week	1000 Marks converted to 10 equivalent Marks
7	Node.JS	In 14 <sup>th</sup> Week	1000 Marks converted to 5 equivalent Marks
8	React.JS	In 14 <sup>th</sup> Week	1000ks converted to 5 equivalent Marks

**Course Outcomes –**

Upon completion of the course, the student will be able to –

1. Improve the reading, writing and verbal skills, and enhance comprehension and articulation abilities
2. Develop logical reasoning abilities, enabling them to make sound decisions in problem-solving scenarios
3. Develop mathematical aptitude as well as data interpretation abilities and use them in test cases and real world problems
4. Learn to apply approaches for optimum time-management, prioritization maximizing the accuracy
5. Learn data interpretation, apply mathematical skills to draw accurate conclusions
6. Apply their knowledge of English, reasoning and quantitative skills for planning, critical thinking and real world problems



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**ANNEXURE II: LIST OF Coursera Tracks for Final Year**

<b>B.Tech IT coursera track for semester 1-AY2024-25</b>		
<b>Sr.No</b>	<b>Course Code</b>	<b>Track Title</b>
1	MD4228	IBM Full Stack Software Developer
2	MD4234	Tableau Business Intelligence Analyst
3	MD4237	IBM Cybersecurity Analyst
4	MD4239	Google Cybersecurity
5	MD4254	IBM IT Project Manager
6	MD4260	Google Project Management
7	MD4262	Salesforce Sales Development Representative
8	MD4268	AWS Cloud Technology Consultant
9	MD4248	IBM DevOps and Software Engineering
10	MD4269	Google UX Design





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**ANNEXURE III: Structure and stakeholder feedback analysis**

**I: Program Structure S.Y.Btech-IT (A.Y. 2024-25)**

Sub	SY Sem1- Mod3	SY Sem2- Mod 4	Theory( Hrs/Week)	Lab( Hrs/ Week)	Tutorial( Hrs/Week )	Credits Sem 1	Credits Sem 2
S1	Data Science	Data Structures	2	2	1	4	4
S2	Internet of Things	Computer Network	2	2	1	4	4
S3	Object Oriented Programming	Web Technology	2	2	1	4	4
S4	Database and Management systems	Digital Electronics and Microprocessor	2	2	1	4	4
S5	Probability and Calculus	Automata Theory	2	-	-	2	2
S6	Reasoning and Aptitude	Reasoning and Aptitude	1	-	-	1	1
S7	Engineering Design and Innovation -I	Engineering Design And Innovation -II	-	-	-	4	4
S8	Design and Thinking - III	Design and Thinking - IV	-	-	1	1	1
						24	24
			<b>Total credits: 48</b>				



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**II: Program Structure TY.B.Tech-IT SEM I (A.Y.2024-25)**

Sub	TY Sem1(Module 5)	TY Sem1(Module 6)	Theory(Hrs/Week)	Lab(Hrs/Week)	Tutorial (Hrs/Week)	Credits Sem 1	Credits Sem 2
S1	Operating System	Operating System	2	2	1	4	4
S2	Image Processing and Computer Vision	Image Processing and Computer Vision	2	2	1	4	4
S3	System Programming	System Programming	2	2	1	4	4
S4	Artificial Intelligence	Cloud Computing	2	2	1	4	4
S5	Reasoning and Aptitude	Reasoning and Aptitude	1	-	-	1	1
S6	MAINFRAME TECHNOLOGIES	MAINFRAME TECHNOLOGIES	-	-	-	Audit course	Audit Course
S7	Engineering Design And Innovation- V	Engineering Design And Innovation-V	-	-	-	6	6
S8	Design and Thinking - 5	Design and Thinking – 5	-	-	1	1	1
						24	24
				<b>Total credits</b>		<b>48</b>	



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**III: Program Structure TY.B.Tech-IT SEM II (A.Y.2024-25)**

Sub	TY Sem2(Module 5)	TY Sem2(Module 6)	Theory(Hrs/Week)	Lab(Hrs/Week)	Tutorial(Hrs/Week)	Credits Sem 1	Credits Sem 2
S1	Design and Analysis of Algorithms	Design and Analysis of Algorithms	2	2	1	4	4
S2	Machine learning and Deep learning	Machine learning and Deep learning	2	2	1	4	4
S3	Coursera Track course (IBM Devops)	Coursera Track course(IBM Devops)	2	2	1	4	4
S4	Cloud Computing	Artificial Intelligence	2	2	1	4	4
S5	Reasoning and Aptitude	Reasoning and Aptitude	1	-	-	1	1
S6	Human Machine Interactions	Human Machine Interaction	-	-	-	Audit course	Audit Course
S7	Engineering Design And Innovation-VI	Engineering Design And Innovation-VI	-	-	-	6	6
S8	Design and Thinking - 6	Design and Thinking – 6	-	-	1	1	1
						24	24
				<b>Total credits</b>			<b>48</b>



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**IV: Program Structure B.Tech-IT (A.Y.2024-25)**

**Module 7: Regular Module: (Sem1/Sem2)**

Sub	Btech Sem 1	Theory(Hrs/ Week)	Tut(Hrs/ Week)	Lab(Hrs/ Week)	Credits
OE1/OE2	Business Proposal Writing/ Engineering and Managerial Economics/Financial Management and Costing/From Campus to Corporate/Linked in learning courses: Generative AI/Data Management Protection and Governance/Network Security/Human Computer Interaction/ NLP/ANN/ARVR// Coursera Track Courses	1	-	-	4
OE3	NPTEL-Cyber security and privacy/ Foundations of Cryptography	2	-	-	2
	Design Thinking-7	-	-	-	1
	Major Project -1/Major Project-2	-	-	-	9
			<b>Total credits</b>		<b>16</b>



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**V:Program Structure B.Tech-IT(A.Y.2024-25)**

**Module 8: Internship Module: (Sem1/Sem2)**

<b>BTech Sem1/Sem2 (internship module)</b>	<b>Theory</b>	<b>Lab</b>	<b>Tut</b>	<b>Credits</b>
Industry Internship				16
<b>OR</b>				
International Internship				16
<b>OR</b>				
Research Internship				16
<b>OR</b>				
Project Internship				16
<b>Total Credits-16</b>				

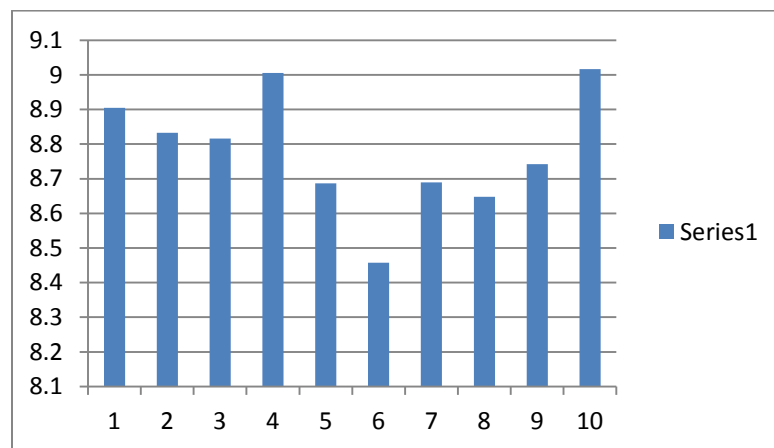


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### Annexure III

## Stakeholder's feedback collection for A. Y. 2023-24 and Feedback analysis

			Q. No.	1	2	3	4	5	6	7	8	9	10
2023-24	Students	36	Average score	8.805556	8.361111	8.694444	8.583333	8.861111	8.444444	8.361111	8.444444	8.805556	8.638889
	Teachers	14		9.545455	9.545455	9.090909	9.545455	8.909091	8.363636	8.818182	9.545455	8.636364	9.090909
	Employers	11		9	8.909091	9.090909	8.909091	8.545455	8.090909	8.545455	8.545455	9.090909	8.909091
	Alumni	7		7.545455	8.909091	8.454545	8.363636	8.181818	8.636364	8.909091	8.454545	8.363636	8.818182
	Parent	16		9.625	8.4375	8.75	9.625	8.9375	8.75	8.8125	8.25	8.8125	9.625
	Total	84		8.904293	8.832449	8.816162	9.005303	8.686995	8.457071	8.689268	8.64798	8.741793	9.016414



[ Prof. (Dr.) P P Ghadekar ]  
**BOS Chairman**