Feedback System for Curriculum Development

For AY 2021-22

I. **Stakeholder's Feedback collection**

II. **Feedback Analysis**

III. **Action Taken Report**

IV. **Communication to BoS**

V. **Hosted on the institutional website**
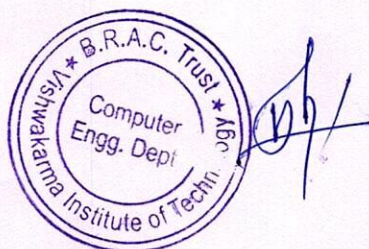
I) <u>Stakeholder's Feedback collection for A. Y. 2021-22</u>

1. Stakeholder's Feedback collected: Sample Teachers Feedback
2. Stakeholder's Feedback collected: Sample Employers Feedback
3. Stakeholder's Feedback collected: Sample Alumni Feedback
4. Stakeholder's Feedback collected: Sample Students Feedback
5. Stakeholder's Feedback collected: Sample Parents Feedback

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: Computer Engineering   AY : 2020-21

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.	9	
3	Curriculum covers the latest state of art topics.	7	
4	Reference material and books available.	9	
5	Blended learning and futuristic pedagogy.	9	
6	Evaluation methods for providing proper assessment.	9	
7	Hands-on component in the Curriculum is satisfactory.	7	
8	Covers of socially relevant issues.	8	
9	Curriculum gives inputs to students for business acumen and ethical practices.	8	
10	Knowledge gain through project-based learning / project centric learning.	9	

Comments (If Any): _____

Name: Prof. S. G. Lade

Organization: Vishwakarma Institute of Technology

Sign:

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

Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
Pune-411037.

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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: Computer Engineering   AY : 2020-21
Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

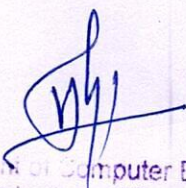| Q. No.	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	8	
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Comments (If Any): _____

Name: Sarang Upadhye

Organization: Unacademy

Sign:

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

Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
Pune-411037.

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

Department: Computer Engineering   AY : 2020-21

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

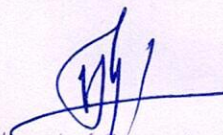| Q. No.	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	10	
2	Potential for Employability.	9	
3	Curriculum covers the latest state of art topics.	10	
4	Reference material and books available.	10	
5	Blended learning and futuristic pedagogy.	10	
6	Evaluation methods for providing proper assessment.	10	
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.	9	
10	Knowledge gain through project-based learning / project centric learning.	10	

Comments (If Any): _____

Name: RUTUJA DHAMALE

Organization: VMware India Pvt Ltd

Sign:

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

Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
Pune-411037.

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: Computer Engineering   AY : 2020-21
Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

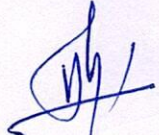| Q. No.	Question	Rating On 1-10 scale	Remarks
1	Bridge the gap between industry requirements and academia.	10	
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Comments (If Any): _____

Name: Saket Kolpe

Sign:

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

Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
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Faculty/ Parents/ Employer/ Alumni/ Students Feedback on
Curriculum and Structure Design / Review

Department: Computer Engineering   AY : 2020-21

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.	9	
3	Curriculum covers the latest state of art topics.	10	
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10	Knowledge gain through project-based learning / project centric learning.	8	

Comments (If Any): _____

Name: A. Baig.

Sign:

(Note: Feedback is to be taken at the end of every Academic Year from all stake holders)
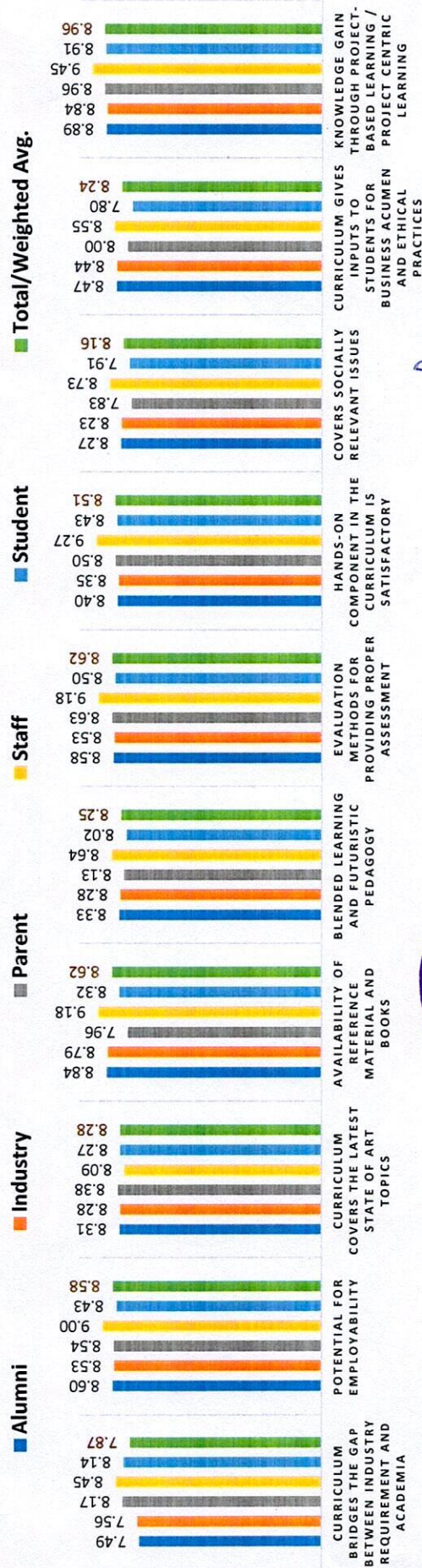
Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
Pune-411037.

STAKE HOLDERS FEEDBACK ANALYSIS FOR A.Y.2020-21

Academic Year	Stake-holders	No. of Feedbacks received	1 Curriculum bridges the gap between industry requirement and academia	2 Potential for Employability	3 Curriculum covers the latest state of art topics	4 Availability of reference material and books	5 Blended learning and futuristic pedagogy	6 Evaluation methods for providing proper assessment	7 Hands-on component in the Curriculum is satisfactory	8 Covers socially relevant issues	9 Curriculum gives inputs to students for business acumen and ethical practices	10 Knowledge gain through project-based learning / project centric learning
		Q.No.										
2020-21	Alumni	45	7.49	8.60	8.31	8.84	8.33	8.58	8.40	8.27	8.47	8.89
	Industry	43	7.56	8.53	8.28	8.79	8.28	8.53	8.35	8.23	8.44	8.84
	Parent	24	8.17	8.54	8.38	7.96	8.13	8.63	8.50	7.83	8.00	8.96
	Staff	20	8.45	9.00	8.09	9.18	8.64	9.18	9.27	8.73	8.55	9.45
	Student	44	8.14	8.43	8.27	8.32	8.02	8.50	8.43	7.91	7.80	8.91
	Total/Weighted Avg.	176	7.87	8.58	8.28	8.62	8.25	8.62	8.51	8.16	8.24	8.96

STAKE HOLDERS FEEDBACK ANALYSIS FOR A.Y.2020-21

Legend: ■ Alumni ■ Industry ■ Parent ■ Staff ■ Student ■ Total/Weighted Avg.

CURRICULUM BRIDGES THE GAP BETWEEN INDUSTRY REQUIREMENT AND ACADEMIA
7.87, 8.14, 8.45, 8.17, 7.56, 7.49

POTENTIAL FOR EMPLOYABILITY
8.58, 8.43, 9.00, 8.54, 8.53, 8.60

CURRICULUM COVERS THE LATEST STATE OF ART TOPICS
8.28, 8.27, 8.09, 8.38, 8.28, 8.31

AVAILABILITY OF REFERENCE MATERIAL AND BOOKS
8.62, 8.32, 9.18, 7.96, 8.79, 8.84

BLENDED LEARNING AND FUTURISTIC PEDAGOGY
8.25, 8.02, 8.64, 8.13, 8.28, 8.33

EVALUATION METHODS FOR PROVIDING PROPER ASSESSMENT
8.62, 8.50, 9.18, 8.63, 8.53, 8.58

HANDS-ON COMPONENT IN THE CURRICULUM IS SATISFACTORY
8.51, 8.43, 9.27, 8.50, 8.35, 8.40

COVERS SOCIALLY RELEVANT ISSUES
8.16, 7.91, 8.73, 7.83, 8.23, 8.27

CURRICULUM GIVES INPUTS TO STUDENTS FOR BUSINESS ACUMEN AND ETHICAL PRACTICES
8.24, 7.80, 8.55, 8.00, 8.44, 8.47

KNOWLEDGE GAIN THROUGH PROJECT-BASED LEARNING / PROJECT CENTRIC LEARNING
8.96, 8.91, 9.45, 8.96, 8.84, 8.89

Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
Pune-411037.

बन्सीलाल रामनाथ अगरवाल चॅरिटेबल ट्रस्ट संचलित

विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी

(सावित्रीबाई फुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)

६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे – ४११ ०३७.

Approved by A. I. C. T. E. New Delhi

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.

Identification No. - PU/PN/Engg./061/(1984)

VISHWAKARMA INSTITUTES VI

Minutes of the twenty second meeting of Board of Studies Computer Engineering ,Vishwakarma Institute of Technology, Pune- 411 037 held on Monday, 15-03-2021.

Meeting No: BOS/COMP/23/2021   Date: 15-03-2021

Venue: Conducted in online mode.

The Meeting of the Board of studies of Department of Computer Engineering, Vishwakarma Institute of Technology, Pune – 411 037 was held on **Monday, 15-03-2021** at **5pm** using online google meet.

The following members were present:

Prof. (Dr.) Sandip R. Shinde (BoS Chairman)
Prof. (Dr.) Manikrao Dhore
Prof (Dr.) Jibi Abraham
Prof. (Dr.) P.N. Mahalle
Mr. Viraj Kulkarni
Prof. (Dr.) S.T. Patil
Prof. S.B. Karthick
Prof. (Dr.) G.D. Bhutkar
Prof. (Dr.) P. S. Joglekar
Prof. A. S. Shingare

The following members conveyed the inability to attend the meeting and leave of absence was granted to them.
Dr. Sandeep Deshmukh
Prof (Dr.) Abhiram Ranade

Following two student representatives invited to the meeting. Both representatives attended the meeting.

Rashi Bhansali, TY Computer Engineering.

Yashwardhan Bhangadia, TY Computer Engineering.

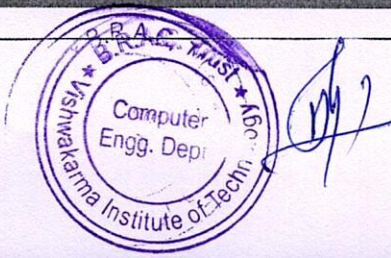Prof. (Dr.) Sandip R. Shinde extended a warm welcome to all the members of the Board of studies.

The Board of studies considered the items on the agenda and the items permitted by the Chair and following resolutions were passed.
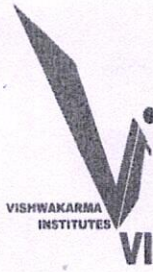
बन्सीलाल रामनाथ अगरवाल चॅरिटेबल ट्रस्ट संचलित

विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी

(सावित्रीबाई फुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)

६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे – ४११ ०३७.

Approved by A. I. C. T. E. New Delhi

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.

Identification No. - PU/PN/Engg./061/(1984)

Item- 1   **: To read and confirm the minutes of the last meeting i.e. 08/05/ 2020.**

Resolution   : The minutes of the last meeting held on 8/5/ 2020 were read and confirmed, with no modification.

Proposed by   : **Prof. (Dr.) Sandip R. Shinde**

Seconded by   : **Mr. Viraj Kulkarni**

Item - 2   **: Presentation of structure and syllabus for MTech CSE/IT first year w.e.f. AY 2020-21**

Prof. (Dr.) Sandip R Shinde, Head Computer Engineering, presented the structure and syllabus for MTech CSE IT w.e.f. AY 2020-21. Individual faculty teaching the courses elaborated on the contents of the courses. Dr. Abraham appreciated the breadth of the courses from perspective of wide practical applicability. Dr. Mahalle and Dr. Abraham suggested giving more stress on advanced topics like NP-completeness theory, Randomized algorithms in the Algorithms and Complexity course. Dr. Abraham recommended inclusion of video processing unit in the syllabus for Computer Vision course. Mr. Viraj Kulkarni suggested the inclusion of Convolutional Neural Networks in the appropriate course.

Resolution: It is resolved to accommodate the changes suggested and propose to Academic board.

Proposed by   : **Prof. (Dr.) Sandip R. Shinde**

Seconded by   : **Prof. (Dr.) Jibi Abraham**

Item - 3   **: Proposing Honors stream offered by Computer department w.e.f. AY 2021-22**

Prof. (Dr.) Sandip R Shinde, Head Computer Engineering, proposed honors streams to be offered by Computer Department w.e.f. AY 2021-22. The streams proposed were AI, Data Sciences, IOT, Cyber Security, Block Chains, Virtual reality. The students will do one specialized course under the stream for the semesters 3, 4, 5, 6 of UG program. All the members appreciated the choice of honors courses. Dr. Mahalle and Dr. Abraham suggested to start the honors streams starting from 5th semester. Prof. (Dr.) Dhore mentioned reasons for proposing the streams from 3rd semester: role of internship program in 7, 8 semesters, and structural flexibility available under autonomy. Prof (Dr) Shinde proposed to convey the suggestion to the academic board.

Resolution: It is resolved to propose the suggestion to the Academic board.

Proposed by   : **Prof. (Dr.) Sandip R. Shinde**

Seconded by   : **Prof. (Dr.) Parikshit Mahalle**

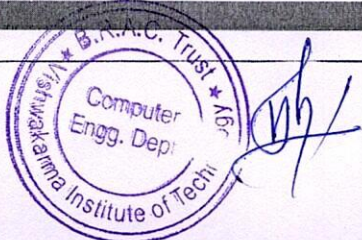**Item - 4**   **: Detailing out syllabus for Object Oriented Programing course w.e.f. AY 2020-21**

Prof. (Dr.) Sandip R Shinde, presented the syllabus of the OOP course to be offered to second year UG

बन्सीलाल रामनाथ अगरवाल चॅरिटेबल ट्रस्ट संचलित

विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी

(सावित्रीबाई फुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)

६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे – ४११ ०३७.

Approved by A. I. C. T. E. New Delhi

Bansilal Ramnath Agarwal Charitable Trust's

Vishwakarma Institute of Technology

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Identification No. - PU/PN/Engg./061/(1984)

students w.e.f. AY 2020-21. Dr. Abraham and Mr. Viraj Kulkarni suggested to focus on only one language Java or C++ during the course. Mrs. Ashwini Shingare explained that Java concepts studied incrementally/differentially in the course and the focus is on C++. Dr. Mahalle suggested inclusion of topic, OOPs design principles in the course syllabus.

Resolution: It is resolved to propose the suggestion for the information of the Academic board.

Proposed by	: **Prof. (Dr.) Sandip R. Shinde**
Seconded by	: **Prof. (Dr.) Parikshit Mahalle**

Item - 5 : **Proposing Algorithmic Number Theory as a new elective course for BTech and detailing out the syllabus for the course.**

Dr. Pushkar Joglekar presented syllabus for Algorithmic Number Theory course to be offered as an elective for BTech w.e.f. AY 2020-21.

Proposed by	: **Prof. (Dr.) Pushkar S. Joglekar**
Seconded by	: **Prof. (Dr.) Jibi Abraham**
Item – 6	: Prof. (Dr.) Sandeep Shinde presented a report of action taken based on the stakeholders' feedback on the structure, the syllabus, and the assessment scheme for AY 19-20 to all the BoS members (given in Annexure).

Resolution	: **Unanimously approved.**
Proposed by	: Prof. S.R. Shinde
Seconded by	: **Prof. (Dr.) Jibi Abraham**

Resolution unanimously passed

Item – 7 : Prof. (Dr.) Sandeep Shinde presented action proposed based on the stakeholders' feedback on the structure, the syllabus and the assessment scheme for AY 2020-21 to all the BoS members. BoS members approved the action proposed (given in Annexure).
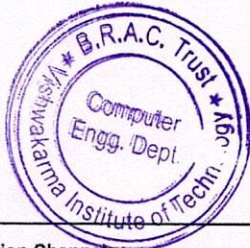
Resolution	: **Unanimously approved the proposed actions and it is decided to present action taken report in the next BoS.**
Proposed by	: Prof. S.R. Shinde
Seconded by	: **Prof. (Dr.) Jibi Abraham**

Resolution unanimously passed

The meeting concluded with a vote of thanks given by Prof. (Dr.) Manikrao Dhore

[Prof. (Dr.) S. R. Shinde]

Chairman, BoS
Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
Pune-411037.

Stakeholders' feedback Action Proposed for AY 2021-22

Subject: Summary of Action proposed for AY 2021-22 (based on stake holders feedback for AY 2020-21)

Summary:

1. For SY following courses can be introduced in the curriculum of AY 21-22, Internet of Things, Computer Organization and Architecture

2. Web Technology, Machine learning course proposed to be added in the TY curriculum.
3. Marketing Management course can be offered to BTech students to give exposure of industry environment.
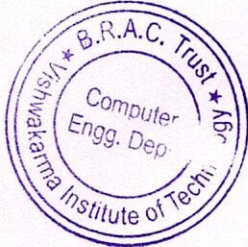
4. Flipped Classroom implementation for courses.

Prof. (Dr.) Sandeep Shinde

Head, Department of Computer Engineering

Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
Pune-411037.

Minutes of the twenty fourth meeting of Board of Studies Computer Engineering ,Vishwakarma Institute of Technology, Pune- 411 037 held on Monday, 10-08-2021.

Meeting No: BOS/COMP/24/2021
2021

Date: 10-08-

Venue: Conducted in online mode.

The Meeting of the Board of studies of Department of Computer Engineering, Vishwakarma Institute of Technology, Pune – 411 037 was held on **Tuesday, 10-08-2021 at 3.30 pm** using online google meet.

The following members were present:

Prof. (Dr.) Sandip R. Shinde (BoS Chairman)
Prof. (Dr.) Manikrao Dhore
Prof.(Dr.) Abhiram Ranade
Prof (Dr.) Jibi Abraham
Prof. (Dr.) P.N. Mahalle
Dr. Sandeep Deshmukh
Mr. Viraj Kulkarni
Prof. (Dr.) S.T. Patil
Prof. S.B. Karthick
Prof. (Dr.) G.D. Bhutkar
Prof. (Dr.) P. S. Joglekar
Prof. A. S. Shingare

Following two student representatives invited to the meeting. Both representatives attended the meeting.
Prateek Puranik, TY Computer Engineering.
Yash Gaherwar, TY Computer Engineering.

Prof. (Dr.) Sandip R. Shinde 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 by the Chair and following resolutions were passed.

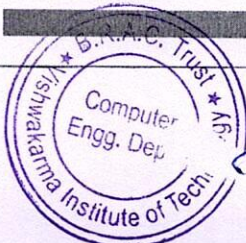<u>Item- 1</u>   : **To read and confirm the minutes of the last meeting i.e. 15/03/ 2021.**

Resolution   : The minutes of the last meeting held on 8/5/ 2020 were read and confirmed, with no modification.

बन्सीलाल रामनाथ अगरवाल चॅरिटेबल ट्रस्ट संचलित

विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी

(सावित्रीबाई फुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था)

६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे – ४११ ०३७.

Approved by A. I. C. T. E. New Delhi

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Dr. Pushkar Joglekar presented the concept of Flipped class room and Dr. G.D. Bhutkar elaborated on the idea and implementation plan of flipped class room. Dr. Sandeep Deshmukh appreciated the idea.

Proposed by   : **Prof. (Dr.) G.D. Bhutkar**

Seconded by   : **Dr.Sandeep Deshmukh**

Item – 6   : Prof. (Dr.) Sandeep Shinde presented an action taken report based on the stakeholders' feedback on the structure, the syllabus and the assessment scheme for AY20-21 to all the BoS members (given in Annexure).

Resolution   : **Unanimously approved.**

Proposed by   : Prof. S.R. Shinde

Seconded by   : Dr.Sandeep Deshmukh

Resolution unanimously passed

Item – 7   : Prof. (Dr.) Sandeep Shinde presented syllabus of all new courses introduced in AY 2021-22 (given in Annexure I), all the committee members approved the syllabi of all the new courses.

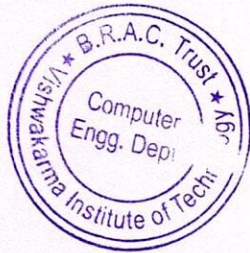**Resolution**   : **Unanimously approved syllabi of all new courses.**

Proposed by   : Prof. S.R. Shinde

Seconded by   : **Dr. Sandeep Deshmukh**

Resolution unanimously passed

There was no other item presented by the members other than the items above.
The meeting concluded with a vote of thanks given by Prof. (Dr.) Manikrao Dhore

[Prof. (Dr.) S.R. Shinde]

Chairman, BoS

Head, Department of Computer Engineering
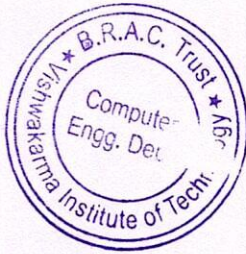Vishwakarma Institute of Technology,
Pune-411037.

Stakeholders' feedback Action Taken Report for AY 2021-22

Subject: Summary of Action taken for AY 2021-22 based on the stake holders' feedback for AY 2020-21.

Summary:

1. For SY following courses were introduced in the curriculum of AY 21-22.
   a. CS 2221: Internet of Things
   b. IT2201: Computer Organization and Architecture
2. Web Technology, Machine learning course are added in the TY curriculum.
3. Marketing Management courses offered to BTech students to get exposure of industry environment.

4. Flipped Classroom implementation for courses.

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V)   Hosted on the institutional website

Website Link for Stakeholder's Feedback Report for AY 2021-22

https://www.vit.edu/Computer/images/Stakeholders_Feedback_21-22.pdf

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