Feedback System for Curriculum Development

For AY 2020-21

I. **Stakeholder's Feedback collection**

II. **Feedback Analysis**

III. **Action Taken Report**

IV. **Communication to BoS**

V. **Hosted on the institutional website**

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 Computer Engineering

I) <u>Stakeholder's Feedback collection for A. Y. 2020-21</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 : 2019-20

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.	10	

Comments (If Any): _____

Name: Prof. G. D. Bhutkar

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.

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 : 2019-20

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.	2	
2	Potential for Employability.	9	
3	Curriculum covers the latest state of art topics.	8	
4	Reference material and books available.	9	
5	Blended learning and futuristic pedagogy.	9	
6	Evaluation methods for providing proper assessment.	10	
7	Hands-on component in the Curriculum is satisfactory.	9	
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.	9	

Comments (If Any): _____

Name: Pankaj Bajad

Organization: Vicon Industries

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.

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

Department: Computer Engineering   AY :2019-20
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.	6	
3	Curriculum covers the latest state of art topics.	7	
4	Reference material and books available.	7	
5	Blended learning and futuristic pedagogy.	6	
6	Evaluation methods for providing proper assessment.	7	
7	Hands-on component in the Curriculum is satisfactory.	8	
8	Covers of socially relevant issues.	4	
9	Curriculum gives inputs to students for business acumen and ethical practices.	6	
10	Knowledge gain through project-based learning / project centric learning.	6	

Comments (If Any): _____

Name: Hemant Ghanekar

Organization: Nvidia

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 : 2019-20
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.	7	
2	Potential for Employability.	8	
3	Curriculum covers the latest state of art topics.	8	
4	Reference material and books available.	8	
5	Blended learning and futuristic pedagogy.	8	
6	Evaluation methods for providing proper assessment.	9	
7	Hands-on component in the Curriculum is satisfactory.	9	
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.	9	

Comments (If Any): _____

Name: Sanket Kulkarni

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.

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

Department: Computer Engineering   AY : 2019-20

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.	7	
2	Potential for Employability.	9	
3	Curriculum covers the latest state of art topics.	6	
4	Reference material and books available.	5	
5	Blended learning and futuristic pedagogy.	8	
6	Evaluation methods for providing proper assessment.	7	
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.	7	
10	Knowledge gain through project-based learning / project centric learning.	7	

Comments (If Any): _____

Name: Ajay Bhave

Sign:

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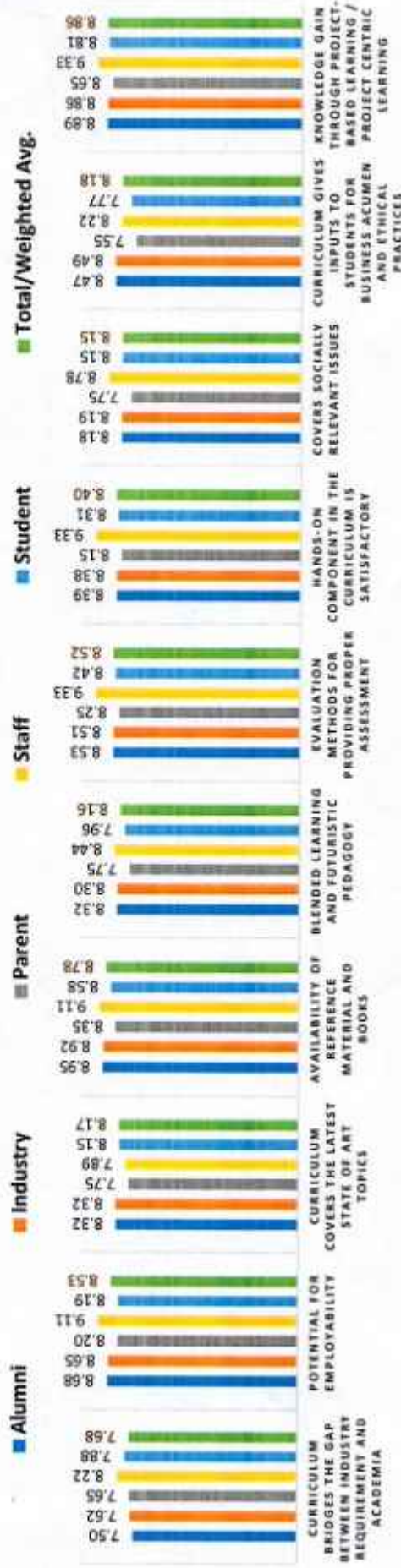
Head, Department of Computer Engineering
Vishwakarma Institute of Technology,
Pune-411037.

STAKE HOLDERS FEEDBACK ANALYSIS FOR A.Y.2019-20

Academic Year	Stake-holders	Q.No. 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
	Alumni	38	7.50	8.68	8.32	8.95	8.32	8.53	8.39	8.18	8.47	8.89
	Industry	37	7.62	8.65	8.32	8.92	8.30	8.51	8.38	8.19	8.49	8.86
	Parent	20	7.65	8.20	7.75	8.35	7.75	8.25	8.15	7.75	7.55	8.65
2019-20	Staff	9	8.22	9.11	7.89	9.11	8.44	9.33	9.33	8.78	8.22	9.33
	Student	26	7.88	8.19	8.15	8.58	7.96	8.42	8.31	8.15	7.77	8.81
	Total/Weighted Avg.	130	7.68	8.53	8.17	8.78	8.16	8.52	8.40	8.15	8.18	8.86

STAKE HOLDERS FEEDBACK ANALYSIS FOR A.Y.2019-20

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

Minutes of the twenty second meeting of Board of Studies Computer Engineering ,Vishwakarma Institute of Technology, Pune- 411 037 held on Friday, 08-05-2020.

Meeting No: BOS/COMP/22/2020   Date: 08-05-2020

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 **Friday, 08-05-2020 at 11 am** using online google meet.

The following members were present:

Prof. (Dr.) Sandip R. Shinde (BoS Chairman)
Prof. (Dr.) Manikrao Dhore (Member Secretary)
Prof (Dr.) Vahida Attar
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.) M.R. Dube
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.
Prof (Dr.) Abhiram Ranade

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

Neha Khare, TY Computer Engineering.

Mohit Naik, 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.

Item- 1	: To read and confirm the minutes of the last meeting i.e. 26/11/ 2019.
Resolution	: The minutes of the last meeting held on 26/11/ 2019 were read and confirmed, with no modification.
Proposed by	: Prof. (Dr.) Sandip R. Shinde
Seconded by	: Prof. (Dr.) Parikshit Mahalle

Item - 2   : **Presentation of new syllabus structure of B. Tech Computer w.e.f AY 2020-21**

Prof. (Dr.) Sandip R Shinde, Head Computer Engineering, presented the methodology of structure and syllabus preparation. Dr. Shinde presented A20, B20, C20 and D20 pattern syllabus structure for First year, Second Year, third year and final year B.Tech respectively w.e.f AY20-21 onwards. Dr. Sandeep Deshmukh mentioned that teaching Data Science in second year is too early and focus should be given at fundamental statistical level only. Prof. (Dr.) Vahida Attar suggested having the buckets of electives from third year of engineering. The structure for AY 20-21 is given in the Annexure.

Resolution: It is unanimously resolved to approve structure and syllabus for AY2020-21 and to accommodate the changes suggested in the syllabus for the next academic year after discussion in academic board.

Proposed by   : **Prof. (Dr.) Sandip R. Shinde**
Seconded by   : **Mr. Sandeep Deshmukh**

Item - 3   : **Presentation of assessment scheme for new structure of B. Tech Computer w.e.f AY 2020-21**

Dr. Sandeep Shinde also presented an assessment scheme for new structure for Computer Engineering to be implemented. Dr. Parikshit Mahalle suggested having uniform assessment among all different categories. Mr. Viraj Kulkarni suggested industry involvement need to be part of all course project assessment.

Resolution: It is resolved to accommodate the changes suggested and propose to Academic board.
Proposed by   : **Prof. (Dr.) Sandip R. Shine**
Seconded by   : **Prof. (Dr.) Vahida Attar**

Item – 4   : Prof. (Dr.) Sandeep Shinde presented action proposed based on the stakeholders' feedback on the structure, the syllabus and the assessment scheme for AY 2019-20 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.) Vahida Attar**

Resolution unanimously passed

<u>Item – 5</u>   : Prof. (Dr.) Sandeep Shinde presented syllabus of all new courses introduced in AY 2020-21 (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   : **Prof. Vahida Attar**

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 2020-21

Subject: Summary of Action proposed for AY 2020-21 (based on stake holders feedback for AY 2019-20)

Summary:

1. Proposed to include some new multidisciplinary subjects at second year level.
2. To enhance programming ability of student Software development project course is proposed to be introduced.
3. A new Course, Computer Architecture and Operating System are proposed to be introduced to improve the employment opportunities for students.
4. Cyber Security course proposed to be added in TY to make students aware about foundations of cryptography and security.
5. New advanced courses such as Algorithm Number Theory, Natural Language Processing can be introduced at final year level.

Prof. (Dr.) Sandeep Shinde

Head, Department of Computer Engineering

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

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.

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

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**

<u>Item - 5</u>   : **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**

<u>Item – 6</u>   : 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

<u>Item – 7</u>   : 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
director@vit Vishwakarma Institute of Technology,
Pune-411037

Stakeholders' feedback Action Taken Report for AY 2020-21

Subject: Summary of Action taken for AY 2020-21 based on the stake holders' feedback for AY 2019-20.

Summary:

1. For second year more multidisciplinary subjects are introduced in the curriculum of AY 20-21, such as Data Science, Applied Electronics.
2. Software development project is added in SY curriculum.
3. A new Course, Computer Architecture and Operating System added to SY to improve the employment opportunities for students.
4. Cyber Security course added in TY to make students aware about foundations of cryptography and security.
5. New courses Algorithm Number Theory, Natural Language Processing courses added in the Btech final year curriculum.

Prof. (Dr.) Sandeep Shinde

Head, Department of Computer Engineering

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

V)   Hosted on the institutional website

Website Link for Stakeholder's Feedback Report for AY 2020-21

https://www.vit.edu/Computer/images/Stakeholders_Feedback_20-21.pdf

Prof. (Dr.) Sandeep Shinde

Head, Department of Computer Engineering

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