Bansilal Ramnath Agarwal Charitable Trust's



Vishwakarma Institute of Technology

666, Upper Indiranagar, Bibwewadi, Pune 411 037

Department of Computer Engineering

Feedback System for Curriculum Development for the AY 2023-24

- I. Stack Holders Feedback Collection
- II. Feedback Analysis
- III. Action taken Report
- IV. Communication to BOS
- V. Hosted on the Institutional Website

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

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Department of Computer Engineering

I. Stack Holders Feedback collection for the AY 2023-24

- 1. Stack holders feedback collected: -Sample Teachers Feedback
- 2. Stack holders feedback collected: -Sample Employers Feedback
- 3. Stack holders feedback collected: -Sample Alumni Feedback
- 4. Stack holders feedback collected: -Sample Parents Feedback
- 5. Stack holders feedback collected: -Sample Students Feedback

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Head, Department of Comput ~ Engineering Vishwakarma Institute of Tectinology, Pune-411037. 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: Computer AY:

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

(Comm	ents	(]	f	Any):

Name: Sangita

Organization: VIT Pure

Sign:

Date:

(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.

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:	Computer	Engg.	AY: 2023-24
Kindly rate or	the scale of 1 to 10	Consider 10 exceller	nt and 1 poor.

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1/4	Reference material and books available.	0.9	
5	Blended learning and futuristic pedagogy.	10	
6	Evaluation methods for providing proper assessment.	10	
7	Hands-on component in the Curriculum is satisfactory.	09	
8	Covers of socially relevant issues.	10	
9	Curriculum gives inputs to students for business acumen and ethical practices.	08	
10	Knowledge gain through project-based learning / project centric learning.	10	

C	omments	(If	An	y):	
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Name: Dr. Ganesh D. Bhutloos Organization: Professor, Dept of Computer Engq, VIT, Pune

Date:

15/04/2024

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

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

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

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Department: Computer AY: 2023-24

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6	Evaluation methods for providing proper assessment.	10		
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8	Covers of socially relevant issues.	8		
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: Mohan Rawat

Organization: John Delse Sign: Law Date: 28/5/2024

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

Title:Stake Holders Feedback on Curriculum

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

Department: Computer AY: 23-24
Kindly rate on the scale of 1 to 10. Consider 10 excellent and 1 poor.

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5	Blended learning and futuristic pedagogy		
6	Evaluation methods for providing proper assessment	9	
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8	Covers of socially relevant issues.	<u> </u>	
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):

Organization: TCS

Sign:

Date: 20/5/24

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

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Head, Department of Computer Engineering Vishwakarma / Write of Technology, Present 11037.

Title:Stake Holders Feedback on Curriculum

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1	Bridge the gap between industry requirements and academia.	9	
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6	Evaluation methods for providing proper assessment.	8	
7	Hands-on component in the Curriculum is satisfactory.	8	
8	Covers of socially relevant issues.	8	
9	Curriculum gives inputs to students for business acumen and	d	}
	ethical practices.		
10	Knowledge gain through project-based learning / project centric learning.	10	

Comments (If Any):

Name: Abdultann
Organization: Relambda
Sign: Yar
Date: Zoth May 2024

(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.

Title:Stake Holders Feedback on Curriculum

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Date:

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Department: Compute AY: 2023 - 24
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2	Potential for Employability.	9	
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5	Blended learning and futuristic pedagogy.	10	
6	Evaluation methods for providing proper assessment.	0	
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9	Curriculum gives inputs to students for business acumen and ethical practices.	10	
10	Knowledge gain through project-based learning / project centric learning.	10	

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	Potential for Employability.	10	
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	Blended learning and futuristic pedagogy.	10	
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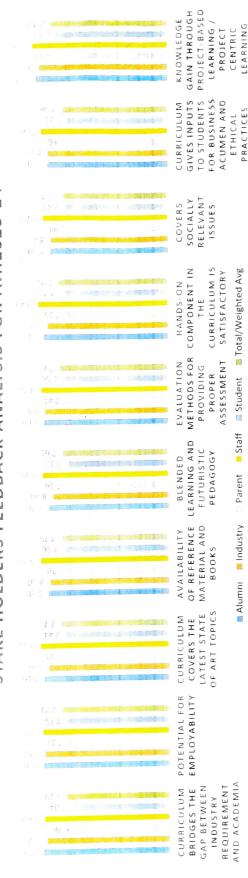
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Organization:

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

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

STAKE HOLDERS FEEDBACK ANALYSIS FOR A.Y. 2023-24





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

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विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी

(सावित्रीबाई फुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था) ६६६, अप्पर इंदिरानगर, बिबनेवाडी, पुणे - ४११ ०३७.

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



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666, Upper Indiranagar, Bibwewadi, Pune - 411 037.

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

Date: 05-09-2024

Minutes of the twenty seventh meeting of Board of Studies Computer Engineering, Vishwakarma Institute of Technology, Pune- 411 037 held on Monday, 05-09-2024.

Meeting No: BOS/COMP/30/2024

Venue: Conducted in online mode.

The Meeting of the Board of studies of Department of Computer Engineering, Vishwakarma Institute of Technology, Pune was held on Monday, 05-09-2024 from 2:00 pm to 4:00 pm in online mode.

The following members were present:

Prof. (Dr.) Sandip R. Shinde (BoS Chairman)

Prof. (Dr.) Abhiram Ranade

Prof. (Dr.) Manikrao Dhore

Prof (Dr.) Jibi Abraham

Prof. (Dr.) Nilesh Uke

Mr. Mahesh Paradkar

Mr. Viraj Kulkarni

Prof. (Dr.) P. S. Joglekar

Prof. (Dr.) S.T. Patil

Prof. (Dr.) G.D. Bhutkar

Prof. (Dr.) D. T. Mane

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 the following resolutions were passed.

Item-1 : To read and confirm the minutes of the last meeting i.e. 22/01/2024.

Resolution: The minutes of the last meeting held on 22/01/2024 were read. The minutes of the last meeting were confirmed without any modification.

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Head, Department of Computer Engineerin Vishwakarma Institute of Technology, Pune-411037. बन्सीलाल रामनाथ अगरवाल चॅरिटेबल ट्रस्ट संचलित

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Proposed by : Prof. (Dr.) Sandip Shinde Seconded by : Prof. (Dr.) Nilesh Uke

<u>Item - 2</u> : Approval of UG structure and Syllabus for AY 24-25

Prof. (Dr.) Sandip Shinde presented UG structure for AY 24-25. To give an overall idea of the courses the current SY students have done in the first year, he briefly went through the AY 23-24 structure and syllabus of the First Year Engineering. Prof. Shinde later presented NEP compliant structure of SY BTech along with the classification of subjects into various categories, like Program Core course, Program Elective course, Multidisciplinary minor course, Engineering science course, etc. Prof. Uke had a query regarding implementation of the module system in the curriculum. Prof. Shinde discussed implementation details of the module system. Prof. Abraham recommended covering pre-requisites for the computer organization and architecture course as some students would be doing it in the first semester of SY before the Microprocessor and Microcontroller course offered in the second semester due to module system. Prof. Abraham and Prof. Uke suggested the possibility of moving the Theory of Computation course to the third year due to the abstract nature of course which demands mathematical maturity and full understanding of the basic computing principles from the students. Prof. Shinde explained that we are trying to cover some of the pre-requisites through Problem solving and Programming and Discrete Mathematics courses in the first year. Prof. Joglekar shared the experience of offering the course to SY students and discussed the additional efforts taken to strengthen understanding of basic concepts, notions from discrete mathematics which are important for the course. He also mentioned that the topic of undecidability is a bit more abstract and suggested to use new pedagogy while discussing the topic in the class. As some background for the course is built through some FY courses and faculties are making extra efforts to strengthen it further, Prof. Uke recommended continuing the course in SY if the students are able to grasp the abstract topics.

Prof. Shinde presented TY structure and spoke about the new initiative of offering Coursera specialization as a 4-credit course in TY curriculum. Prof. Joglekar presented various specializations offered through Coursera, discussed the assessment scheme for the course. He also mentioned that apart from doing the chosen specialization, students can freely use the licenses for completing the courses of their interest. Mr. Paradkar appreciated the Coursera initiative. Prof. Shinde discussed audit courses offered by industry for TY students. Prof. Dhiraj Jadhav gave over-all idea of the game development audit course offered by Zensar Technology. Prof. Bhutkar gave background on a new 1 credit course on Reasoning and Aptitude development in SY curriculum and briefly discussed the contents of the course. Prof. Ranade queried about the motivation of the course, answering that Prof. Shinde discussed the role of the course in relevance from placement perspective. Prof. Ranade initiated discussion on

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Bansilal Ramnath Agarwal Charitable Trust's

विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी (सावित्रीबाई फुले पुणे विद्यापीठाशी संलग्न स्वायत्त संस्था) ६६६, अप्पर इंदिरानगर, बिबवेवाडी, पुणे - ४११ ०३७.

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Engineering Design and Innovation courses, the credits awarded to the course and suggested the possibility of calling it a project course. Prof. Shinde explained that NEP recommends only 4 credits for the projects. Prof. Radhika Kulkarni talked about the center of excellence and initiative regarding projects in collaboration IUCAA, Codewits, GenAI, Zensar etc.

Prof. Shinde presented BTech final year structure. Prof. Dhore explained the internship/coursework module and the flexibility provided in the curriculum. Individual faculties presented the syllabus of various courses in SY, TY, BTech curriculum. Prof. Bhilare presented Syllabus for the data structures course in SY curriculum. Prof. Ranade suggested to use name dynamic array instead of the vectors. Also, Ranade sir queried about whether the theory lectures are sufficient to cover the course contents, Prof. Bhilare commented that the tutorial sessions are used for covering some topics and problem-solving practice. Prof. Patil presented the contents of the Computer Organization and Architecture (COA) course. Prof. Abraham brought in issue about covering pre-requisite for Microprocessor and Microcontroller (MAM) course due to Module pattern. Prof. Shinde mentioned that we plan to make COA course module independent to ensure necessary pre-requisites for MAM course offered in second semester. Prof. Shinde discussed the Cyber Security course and contribution of industry experts from Barclay technologies in the course content development and delivery. Prof. Abraham suggested the course is quite heavy and some content can be moved to some suitable course or offering a new course in TY by reducing the credits for EDI course. Prof. Shinde proposed to discuss this suggestion in the academic board meeting. Prof. Mane discussed the Reasoning and Aptitude development course in TY curriculum. Apart from basic logic and reasoning, the course also contains basics on code debugging, programming, node JS, angular JS, React JS etc. Prof. Ranade suggested giving appropriate names for the reasoning and aptitude courses which should capture the course contents.

Mr. Viraj Kulkarni suggested to include course which covers the basics of Large Language models, chatbots. Prof. Shinde pointed out that students can possibly gain understanding of related topics through Coursera courses freely available for all courses. Prof. Joglekar spoke about the LinkedIn Learning initiative, through which free LinkedIn learning licenses are provided to some students. The course on Generative AI and LLMs was offered as an elective course to the students through LinkedIn learning.

Resolution

: The structure and the syllabus is approved by all the members and it is decided to implement the same for AY 24-25. It has been decided to propose some of the suggestions given by BoS members to the academic board and can be considered for implementation in the next academic year.

Proposed by : Prof. (Dr.) Sandip Shinde

Seconded by : Prof. (Dr.) Nilesh Uke

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<u>Item - 3</u>: Approval of the new courses introduced in the AY 24-25

Prof. Joglekar presented the list of new courses introduced in AY 24-25 in the entire curriculum. All members approved the list. The list is given in the Appendix.

Resolution

: The list of the new courses is approved.

Proposed by

: Prof. (Dr.) Pushkar Joglekar

Seconded by : Mr. Viraj Kulkarni

<u>Item - 4</u>: Approval of Program Core Course (PCC) for FY BTech under NEP

Prof. Shinde proposed Computer Organization and Architecture course as a PCC course in FY curriculum. All the members agreed with the choice of the course.

Resolution

: It is approved to offer Computer Organization and Architecture as a PCC

course for FY BTech.

Proposed by

: Prof. (Dr.) Sandip Shinde

Seconded by: Mr. Mahesh Paradkar

<u>Item - 5</u>: Approval of Program Elective Courses (PEC) for FY BTech under NEP

Prof. Shinde proposed Web development and Data Analysis as PEC course in FY curriculum for Computer Engineering. Prof. Dhore highlighted the difference between Web Technology course in TY curriculum and the Web development course.

Resolution

: It is approved to offer Computer Organization and Architecture as a PCC

course for FY BTech.

Proposed by

: Prof. (Dr.) Sandip Shinde

Seconded by: Prof. (Dr.) Jibi Abraham

<u>Item - 6</u> : Approval of Course Outcomes (CO) of the courses

Prof. Shinde presented sample outcomes of some courses. The entire syllabus copy was presented to the members which included outcomes of all the courses offered in the curriculum for AY 24-25. Prof. Ranade suggested formulating CO statements for Object Oriented Programming course more concretely instead of the broad statements.

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विश्वकर्मा इन्स्टिट्यूट ऑफ टेक्नॉलॉजी

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Bansilal Ramnath Agarwal Charitable Trust's

Resolution: The CO statements are approved, and it is decided to incorporate suggestion

from BoS members while formulating CO statements for courses in the next

academic year.

Proposed by : Prof. (Dr.) Sandip Shinde

Seconded by: Prof. (Dr.) Abhiram Ranade

<u>Item - 7</u>: Approval of CO-PO mappings of the courses

Prof. Ashtagi presented sample CO-PO maps for a course. She also presented the Course Articulation Matrix and Program Articulation matrix. The entire syllabus copy was presented to the members which included CO-PO mappings for all the courses offered in the curriculum for AY 24-25. Prof. Shinde described the scientific method used while formulating the CO-PO map and the strengths of mappings. Prof. Ranade suggested formulating CO statements for Object Oriented Programming course more concretely instead of the broad statements.

Resolution: The CO-PO mappings are approved.

Proposed by : Prof. (Dr.) Sandip Shinde

Seconded by : Prof. (Dr.) Nilesh Uke

Item - 8 : Presentation of CO, PO attainments

Prof. Lade presented CO attainment for the Operating system course. Prof. Abraham initiated the discussion of the action taken when certain CO gets attained or some CO doesn't get attained. Prof. Abraham queried about the process of deciding the target/threshold for COs and suggested that an appropriate threshold can be decided in a progressive manner based on the attainment percentage of the CO for previous academic year so that the gap between attainment and the threshold gets minimized. Prof. Shinde presented CO attainment for the Cyber Security course and discussed action taken based on the non-attainment of certain COs. Prof. Shinde Also presented PO attainment

Proposed by : Prof. (Dr.) Sandip Shinde Seconded by : Prof. (Dr.) Jibi Abraham

Item - 9 : Approval of Action planned for non-attained COs, POs

Prof. Shinde explained typical actions which can be taken for non-attained COs like changing pedagogy, providing practice assignments, providing extra study material etc. Prof. Abraham suggested deciding thresholds appropriately in a progressive manner. Prof. Ranade initiated

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



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discussion on the exact process used for deciding the thresholds corresponding to CO. Prof. Shinde explained role of subject teacher in the process, he also explained overall grading process. Prof. Ranade suggested recommending relative grading for some courses to neutralize the effect due to the difference in the difficulty of question paper/assessment across different semesters. Prof. Shinde presented PO attainment, and it is observed that all the Pos are attained.

: The actions proposed on non-attained COs are approved.

Proposed by : Prof. (Dr.) Sandip Shinde Seconded by: Prof. (Dr.) Abhiram Ranade

: Approval of MOOC courses Item - 10

Prof. Shinde discussed the various MOOC courses offered through Coursera, and Swayam and LinkedIn learning. Prof. Joglekar highlighted the role of LinkedIn learning courses in enhancing various skills for weak and bright learners.

: The MOOC courses are approved by all the members. Resolution

: Prof. (Dr.) Sandip Shinde Proposed by

Seconded by : Mr. Viraj Kulkarni

: Approval of Assessment Scheme Item - 11

Prof. Bharadwaj presented detailed assessment scheme for various courses in the curriculum for AY 24-25. Prof. Shinde spoke about the flexibility given to the faculty in charge of the course to decide appropriate assessment scheme for the course.

: The assessment scheme for AY 24-25 is approved. Resolution

: Prof. (Dr.) Sandip Shinde Proposed by Seconded by : Prof. (Dr.) Nilesh Uke

: Identification of weak and bright learners and support given to them <u>Item - 12</u>

Prof. Shailaja Uke explained that previous semester's CPI is used to identify weak and bright learners and explained typical activities carried out for support of weak, bright students. For example, for bright students challenging assignments are given, more advanced topics for course projects are suggested, interesting MOOC courses are suggested, help is provided for publishing research papers etc. For weak students, extra study material can be provided, meeting and counselling sessions are planned and communication with parents is done if required.

: The process for identifying weak and bright learners is approved. Resolution

: Prof. (Dr.) Sandip Shinde

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Seconded by : Prof. (Dr.) Jibi Abraham

Item - 13 : Discussion on PO, PSO statements for SY as per NEP guidelines for AY 25-26

Prof. Shinde proposed three PSOs statements instead of the current four PSOs. Prof. Ranade requested to present the current PSO statements. Prof. Dhore explained the current PSO statements and explained how the proposed PSO statements capture in essence the various points in the current PSOs.

Proposed by : Prof. (Dr.) M. L. Dhore Seconded by : Prof. (Dr.) Abhiram Ranade

Item - 14 : Presentation of Stakeholder's feedback on curriculum for Sem II AY 23-24

Prof. Shinde presented the feedback of various stakeholders (students, parents, alumni, industry experts and teachers) on the curriculum and mentioned that the feedback is utilized for indirect attainments of POs.

Proposed by : Prof. (Dr.) Sandip Shinde

Seconded by : Prof. (Dr.) Nilesh Uke

There were no other items suggested by the members other than the items above. The meeting was concluded with a vote of thanks given by Prof. (Dr.) G. D. Bhutkar.

> Prof. (Dr.) R. Shindel

Chairman, BoS

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The Constitution of Board of Studies Computer Department AY 24-25 SemII

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Mr. Mahesh Paradkar	Program Director, IBM Security, Pune (Industry	9860049757	mparadka@in.ibm.com	
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Department of Computer Engineering

Stakeholders' feedback Action Taken Report for AY 2023-24

Subject: Summary of Action taken for AY 2023-24 based on the stake holders' feedback for AY 2022-23.

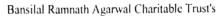
Summary:

- a. Students should have good hands on so Swayam courses introduced for BTech students.
- b. Final year students should have good hands on new technology so Linkedin learning credit course named as "Generative AI and its applications" are introduced in their curriculum.
- c. In curriculum of TY and SY students also Linkedin learning audit course introduced as Data modelling and forecasting and Critical Thinking. For SY course name is Simple statistics for user experience projects and Communication foundations
- d. BTech students must have industry exposure so a new course introduced is "Marketing management"
- e. For SY students follow new assessment scheme this year as the course TOC, and POPL as 100 marks written paper.
- f. Students of CS department has allotted varied assessment schemes. Some courses have MCQ examination ,while few courses have written paper, while other subjects have GD, PPT
- g. Continuing with Design thinking for SY and TY. Motivation is to write and publish technical paper on the project/research work done in the previous semester under EDI Course. The result is number of research publication and Patent filing count for department is increased.

Prof. (Dr.) Sandeep Shinde

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V. Hosted on the Institutional Website

Website link for Stockholders feedback Report for AY 2023-24 https://www.vit.edu/computer/about/



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