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FEEDBACK ANALYSIS REPORT OF STAKEHOLDERS (2021-22)

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Chandubhai S Patel Institute of Technology

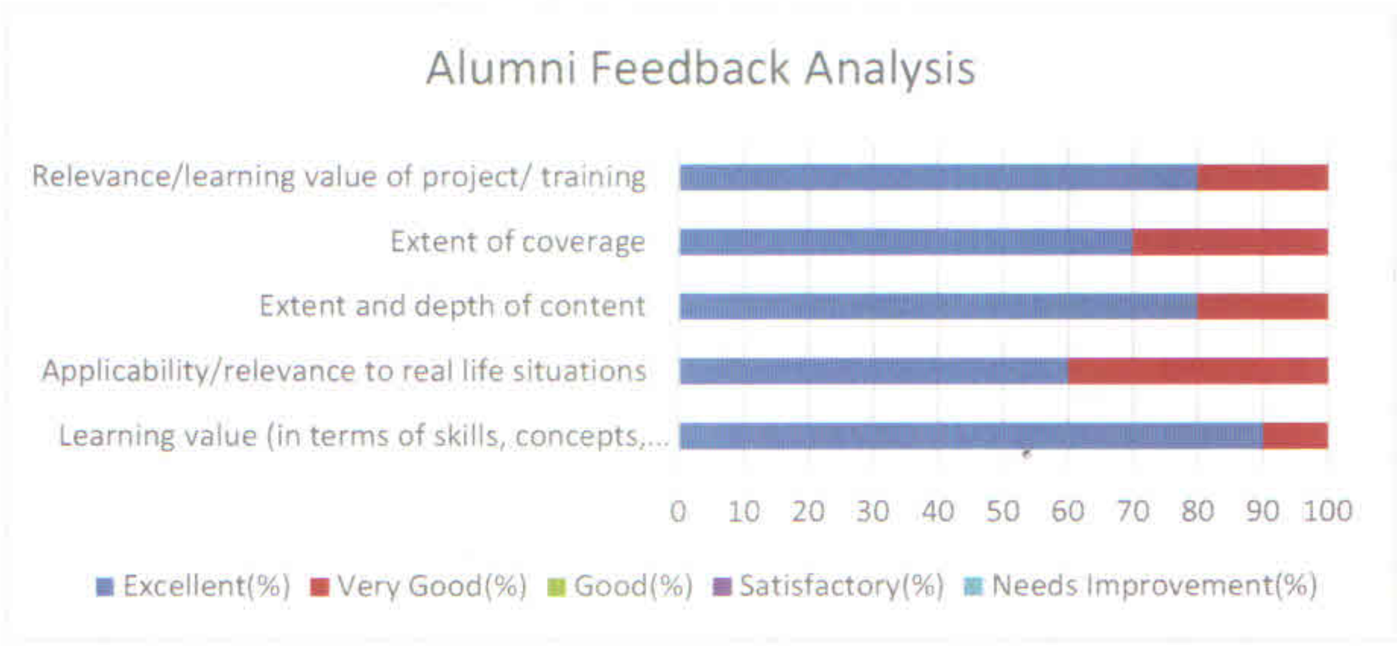
Analysis of Feedback on Syllabus/Curriculum

AY: 2021-22

- **Analysis of Feedback by Student**
  - Overall syllabus is good.
  - More time for practical sessions is required for subjects like Machine learning and Computer Vision.
  - It would be better if modern tools and technologies such NodeJS, ReactJS, AngularJS, NextJS, Django etc. basically Full Stack development, and Web3 is been taught.
  - To understand the real requirement for the project, It been developed by the Students in the SGP, should be used by the college/faculties/students to motivate them to build more projects.
  - Native development, Flutter Framework, MERN Stack or any othershould be introduce as an elective subject along with keeping ML as Elective

- **Analysis of Feedback by Employers**
  - More focus on Data Structure and OOPs concepts.
  - Intro lecture on what not to do in projects will improve project quality.

- **Analysis of Feedback by Alumni**



	Excellent	Very Good	Good	Satisfactory	Needs Improvement
Percentage(%)	76%	24%	0%	0%	0%

  - Keep updating the course and electives as per the current Technology trends and needs
  - Include more concepts of DevOps and FullStack.
  - Create Communities, culture with industries.
  - More practical approach.

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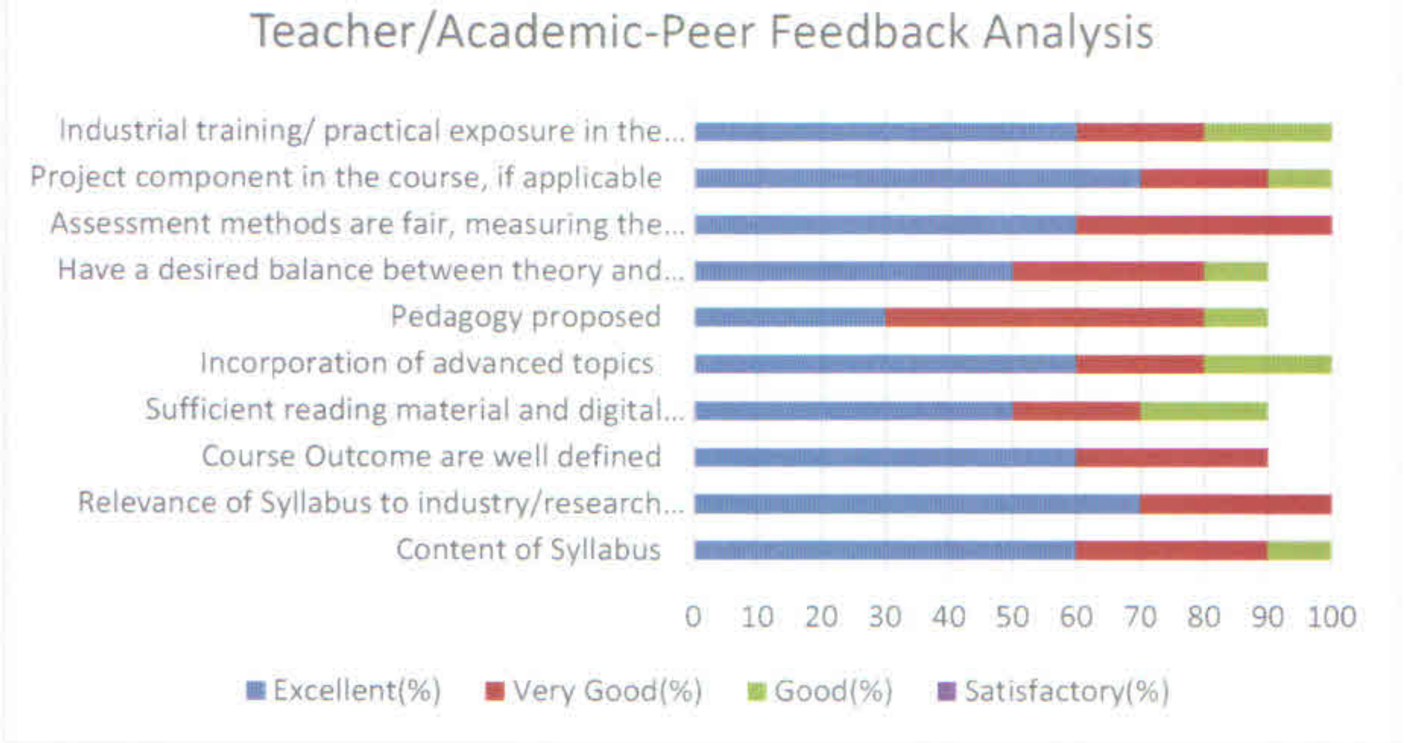
- **Analysis of Feedback by Teacher**



	Excellent	Very Good	Good	Satisfactory	Needs Improvement
Percentage(%)	61%	29%	10%	0%	0%

- Students have done good projects.
- More algorithm should be incorporated in ML and model should be deployed.
- Students should build projects on Computer Vision.

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CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

FEEDBACK ACTION TAKEN REPORT OF STAKEHOLDERS (2021-22)

Summary and Action Taken Report of Feedback on Curriculum

Category	Comments	Action Taken
Alumni	Include more concepts of DevOps and FullStack.	• Full Stack web development is offered in 5th semester. [Annex-I] • Cloud computing certification courses have been started. [Annex-II]
Employer	Students should have additional opportunity to learn industry-led courses like cyber security & cloud computing.	• Department has started offering professional certification courses like NDE/EHE/DFE from EC-Council and AWS Cloud Practitioner and AWS Solution Architect. [Annex-III]
	Student should focus on basics like data structure, OOPs concept	• Department has adopted more problem solving/competitive exam preparation based teaching for basics courses. [Annex-IV].
	Introduction lecture with demo project along with dos/don'ts should be explained in the beginning of the project courses.	• Department will follow the suggested practice from AY: 2022-23 and the same will be considered in the 18th BOS.
Student	It would be better if more time for practical sessions is allotted for subjects like Machine learning and Computer Vision.	• To be considered in 18th BOS.
	Modern tools and technologies such NodeJS, ReactJS, AngularJS, NextJS, Django etc. basically Full Stack development, and Web3 should be taught.	• Department has offered full stack web development course in 5th sem and for Web3.0 blockchain technology is offered as elective in 7th sem. [Annex-I]

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	Projects that have been developed by the Students in the SGP, should be used by the college/faculties/students to motivate them to build more projects.	• The practice has been started with project implemented by the students like Technotarang-2022. [Annex-V] • Student's projects are uploaded as android application on google play store to be used by faculties/students. [Annex-V]
Teacher	Students to build projects on Computer Vision.	• Computer vision course has been offered as an elective to increase interest of student to develop cutting edge, real-time projects.
	More Algorithms and model deployment should be included in Machine Learning	• To be considered in 18th BOS.

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Faculty of Technology & Engineering
Chandubhai S Patel Institute of Technology
Smt. K D Patel Department of Information Technology

Annexure I

Teaching & Examination Schemes

for

B Tech 5th-6th Semesters
Information technology

Effective From
(CHARUSAT 2020-21 Admitted Batch)

Faculty of Technology & Engineering
Chandubhai S Patel Institute of Technology
Smt. K D Patel Department of Information Technology

	Course Code	Course Title	Teaching Scheme						Examination Scheme				
			Contact Hours				Credit		Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Theory	Practical	Internal	External	Internal	External	
TY Sem-5	IT351	Design & Analysis of Algorithms	3	2	0	0	3	1	30	70	25	25	150
	IT357	Full Stack Web Development	2	4	0	0	2	2	30	70	25	25	150
	IT343	Operating System	4	2	0	0	4	1	30	70	25	25	150
	IT352	Computer Networks	3	2	0	0	3	1	30	70	25	25	150
	HS124.01A	Professional Communication	0	2	0	0	0	2	0	0	30	70	100
		Elective-I	3	2	0	0	3	1	30	70	50	50	200
	IT353	Software Group Project-II	0	0	0	2	0	1	0	0	25	25	50
	IT346	Summer Internship-I	0	0	0	3	0	3	0	0	75	75	150
		Assignment Practices/Student Counseling/Remedial Classes	0	2	0	0			0	0	0	0	0
			15	**16**	**0**	**5**	**15**	**12**	**150**	**350**	**280**	**320**	**1100**
TY Sem-6	IT354	Mobile Application Development	2	4	0	0	2	2	30	70	50	50	200
	IT348	Cryptography & Network Security	4	2	0	0	4	1	30	70	25	25	150
	IT358	Machine Learning	3	2	0	0	3	1	30	70	25	25	150
		Elective-II	3	2	0	0	3	1	30	70	25	25	150
	IT356	Software Group Project-III	0	0	0	2	0	1	0	0	25	25	50
		HS Elective-IV	0	2	0	0	0	2	30	70	0	0	100
		Assignment Practices/Student Counseling/Remedial Classes	0	4	0	0			0	0	0	0	0
			12	**16**	**0**	**2**	**12**	**8**	**150**	**350**	**150**	**150**	**800**

Faculty of Technology & Engineering
Chandubhai S Patel Institute of Technology
Smt. K D Patel Department of Information Technology

Teaching & Examination Schemes

for

B Tech 7th-8th Semesters Information technology

Effective From (CHARUSAT 2019-20 Admitted Batch)

Faculty of Technology & Engineering
Chandubhai S Patel Institute of Technology
Smt. K D Patel Department of Information Technology

	Course Code	Course Title	Teaching Scheme						Examination Scheme				
			Contact Hours				Credit		Theory		Practical/Project		Total
			Theory	Practical	Tutorial	Project	Theory	Practical	Internal	External	Internal	External	
Final Year Sem-7	IT441	Data Science (SDC)	3	2	0	0	3	1	30	70	25	25	150
	IT442	Advanced Computing (AC)	3	2	0	0	3	1	30	70	25	25	150
	IT443	Language Processors (CC)	4	2	0	0	4	1	30	70	25	25	150
	IT444	Internet of Things (AC)	3	2	0	0	3	1	30	70	25	25	150
		Elective III (EC)	3	2	0	0	3	1	30	70	25	25	150
	IT445	Software Group Project-IV (SDC)	0	0	0	4	0	2	0	0	50	50	100
	IT446	Summer Internship-II (SDC)	0	0	0	3	0	3	0	0	75	75	150
		Assignment Practices/Student Counseling/Remedial Classes	0	6	0	0			0	0	0	0	0
			16	**16**	**0**	**7**	**16**	**10**	**150**	**350**	**250**	**250**	**1000**
Final Year Sem-8	IT447	Software Project Major (SDC)	0	36	0	0	0	20	0	0	250	350	600
			0	**36**	**0**	**0**	**0**	**20**	**0**	**0**	**250**	**350**	**600**

Faculty of Technology & Engineering
Chandubhai S Patel Institute of Technology
Smt. K D Patel Department of Information Technology

LIST OF DEPARTMENT ELECTIVE COURSES FOR B TECH IN IT						
ELECTIVES	**Code**	**Programme Elective – I** **5th Semester**	**Code**	**Programme Elective – II** **6th Semester**	**Code**	**Programme Elective – III** **7th Semester**
	IT371	Advanced Java programming	IT375	Service Oriented Computing	**IT471**	**Foundation of Modern Networking**
	IT374	Python Programming	IT376	Image Processing	**IT473**	**Artificial Intelligence**
	IT373	Embedded Systems	IT377	Machine Learning & Applications	**IT474**	**Blockchain Technologies**

Annexure II

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Smt. Kundanben Dinsha Patel Department of Information Technology

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Chandubhai S Patel Institute of Technology

OFFERS CERTIFICATION COURSES ON

AWS CLOUD PRACTITIONER & **AWS SOLUTION ARCHITECT**

UNDER

aws certified Cloud Practitioner FOUNDATIONAL

AWS STUDENTS' CLUB ASC CHARUSAT

aws certified Solutions Architect ASSOCIATE

Learning Outcomes

- EFFICIENT DESIGN AND DEPLOYMENT OF THE AWS SYSTEM
- COST-EVALUATION AND COST-CONTROL MECHANISMS
- ELASTIC LOAD BALANCING ON MULTIPLE EC2 INSTANCES
- DATA INGRESS AND EGRESS ON AWS
- IDENTIFYING RELEVANT AND SUITABLE USES OF AWS ARCHITECTURE
- LIFT AND SHIFT MECHANISM OF AWS ON-PREMISES APPLICATIONS
- FINDING THE RIGHT SOLUTIONS BASED ON COMPUTATIONAL, DATABASE, AND SECURITY NEEDS

Benifits on Courses

- 50% OFF ON CERTIFICATION EXAM FEES
- COURSE COMPLETION CERTIFICATE BY AWS AND CHARUSAT
- HANDS-ON EXPERIENCE
- PROVIDE ACCESS TO A NETWORK OF LIKE-MINDED PEERS AND AWS THOUGHT-LEADERS

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Smt. K. D. Patel Department of Information Technology
CHARUSAT Campus, Highway, Off, Nadiad - Petlad Rd, Changa, Gujarat 388421

KDPIT_CHARUSAT/ https://charusat.ac.in/cspit/it/ KDPIT_CSPIT/

Annexure III

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OFFERS CERTIFICATION COURSE ON

N|DE
Network Defense Essentials

UNDER
EC-COUNCIL | ACADEMIA
PARTNER

REGISTRATION
CLOSED ON MAY 25, 2022

COURSE OUTLINE

- NETWORK SECURITY FUNDAMENTALS
- IDENTIFICATION, AUTHENTICATION, AND AUTHORIZATION
- NETWORK SECURITY CONTROLS: ADMINISTRATIVE CONTROLS, PHYSICAL CONTROLS, TECHNICAL CONTROLS
- VIRTUALIZATION AND CLOUD COMPUTING
- WIRELESS NETWORK SECURITY
- MOBILE DEVICE SECURITY
- IOT DEVICE SECURITY
- CRYPTOGRAPHY AND PKI
- DATA SECURITY
- NETWORK TRAFFIC MONITORING

REGISTER NOW bit.ly/3vLhshS

Course Fee
Rs.2000/-

BENIFITS ON COURSE

- COURSE COMPLETION CERTIFICATE
- HANDS-ON EXPERIENCE
- IMPROVE PROSPECTS FOR EMPLOYMENT ADVANCEMENT
- DEVELOP THE SKILLS FOR ENTRY-LEVEL JOB ROLES OF THE FUTURE IN CYBER SECURITY DOMAIN
- GET JOB ROLES AS NETWORK SECURITY ANALYST, NETWORK ADMINISTRATOR, LAN SPECIALIST

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OFFERS CERTIFICATION COURSE ON

E|HE
Ethical Hacking Essentials

UNDER

EC-COUNCIL | ACADEMIA PARTNER

REGISTRATION CLOSED ON MAY 25, 2022

COURSE OUTLINE

- INFORMATION SECURITY FUNDAMENTALS
- ETHICAL HACKING FUNDAMENTALS
- INFORMATION SECURITY THREATS AND VULNERABILITIES
- PASSWORD CRACKING TECHNIQUES, SOCIAL ENGINEERING TECHNIQUES, NETWORK-LEVEL ATTACKS, WEB APPLICATION ATTACKS, WIRELESS ATTACKS, MOBILE ATTACKS, IOT-OT ATTACKS, CLOUD COMPUTING THREATS AND COUNTERMEASURES
- PENETRATION TESTING FUNDAMENTALS

BENIFITS ON COURSE

- COURSE COMPLETION CERTIFICATE
- HANDS-ON EXPERIENCE
- IMPROVE PROSPECTS FOR EMPLOYMENT ADVANCEMENT
- DEVELOP THE SKILLS FOR ENTRY-LEVEL JOB ROLES OF THE FUTURE IN AS INFORMATION SECURITY SPECIALIST DOMAIN
- GET JOB ROLES AS HELP DESK TECHNICIAN, TECHNICAL SUPPORT SPECIALIST, SYSTEMS SPECIALIST, COMPUTER SUPPORT SPECIALIST, CYBER SECURITY SPECIALIST

REGISTER NOW

bit.ly/3vLhshS

Course Fee
Rs.2000/-

Faculty of Technology & Engineering
Chandubhai S Patel Institute of Technology
Smt. K D Patel Department of Information Technology

OFFERS CERTIFICATION COURSE ON

DFE
Digital Forensics Essentials

UNDER

EC-COUNCIL | ACADEMIA
PARTNER

REGISTRATION CLOSED ON MAY 25, 2022

COURSE OUTLINE

- COMPUTER FORENSICS FUNDAMENTALS
- COMPUTER FORENSICS INVESTIGATION PROCESS
- UNDERSTANDING HARD DISKS AND FILE SYSTEMS
- DATA ACQUISITION AND DUPLICATION
- DEFEATING ANTI-FORENSICS TECHNIQUES
- WINDOWS, LINUX, MAC, NETWORK, DARK WEB, MALWARE FORENSICS
- INVESTIGATING WEB ATTACKS
- INVESTIGATING EMAIL CRIMES

REGISTER NOW bit.ly/3vLhshS

Course Fee
Rs.2000/-

BENIFITS ON COURSE

- COURSE COMPLETION CERTIFICATE
- HANDS-ON EXPERIENCE
- IMPROVE PROSPECTS FOR EMPLOYMENT ADVANCEMENT
- DEVELOP THE SKILLS FOR ENTRY-LEVEL JOB ROLES OF THE FUTURE IN AS INFORMATION SECURITY AND DIGITAL FORENSICS SPECIALIST DOMAIN
- GET JOB ROLES AS CYBER SECURITY TECHNICIAN, CYBER FORENSIC SPECIALIST, CYBER OPERATIONS SPECIALIST, IT SECURITY SPECIALIST

Annexure IV

CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY
CHANDUBHAI S PATEL INSTITUTE OF TECHNOLOGY
SMT. K. D. PATEL DEPARTMENT OF INFORMATION TECHNOLOGY
ACADEMIC YEAR: 2021-22

Lesson Planning

Name of Teacher: Purvi Prajapati **Date:** 20/12/2021

Course Code & Name: IT256 Data Structures & Algorithms (4th sem: IT2)

MONTH	WEEK	Plan Date	Actual Date	TOPICS	Remarks
Dec	20 - 25	21/12	21/12	Syllabus Discussion, Overview of the course with course outcome Importance of course in computer field, Introduction to Data structure, MOOC for Data Structure	
		22/12	22/12	Data type, Algorithm. Types of Data Structure,	
		23/12	23/12	**Array** : one dimension, Memory representation	
		24/12	24/12	Two dimensional Array Memory Representation of Array : Row Order and Column Order, Solve Examples	
	27 - 01	28/12	28/12	Discuss GATE Questions	
		29/12	29/12	**Linked List** Memory Representation of LL, Singly Linked List: Traversal, Insert at First,	
		30/12	30/12	Insert at End, Search node, reverse print	
		31/12	04/01	Delete the specified node,	
Jan	03 - 08	04/01	05/01	Insert according to Sorted order	
		05/01	06/01	Discuss GATE Questions	
		06/01	11/01	Doubly Linked List : Forward, backward traversals	
		07/01	18/01	Insert and Delete operation	
	10 -15	11/01	19/01	Circular Linked List, Applications of Link List	
		12/01	20/01	**Stack** Memory Representation of Stack Operations : push, pop, peep, change	
		13/01	21/01	Applications of Stack: Recursion : Recursive Function Tracing,	
	17 - 22	18/01	25/01	Conversion : Infix to Postfix	
		19/01	27/01	Conversion : Infix to Postfix	

		20/01	28/01	Evaluation : Prefix and Postfix expression	
		21/01	31/01	Solve competitive Examples	**Quiz**
	24 - 29	24/01	01/02	Tower of Hanoi Problem	
		25/01	02/02	Tower of Hanoi Problem	
		27/01	03/02	**Queue** Memory Representation of queue Simple Queue : Insert and Delete operation Applications of Queue	
Feb	31 - 05	01/02	04/02	Circular Queue : Insert	
		02/02	08/02	Delete operation, Circular Queue Examples	
		03/02	09/02	Double-Ended-Queue , Priority Queue	
		04/02	10/02	Discuss GATE Questions	
	07 - 12	08/02	11/02	Discuss GATE Questions	
		09/02	15/02	**Sorting** Different Sorting Techniques, Bubble Sort	
		10/02	17/02	Selection Sort	
		11/02	18/02	Insertion Sort	
	14 - 19	15/02	22/02	Merge Sort	
		16/02	23/02	Radix Sort	
		17/02	24/02	**Searching** Sequential Search ,Binary Search Iterative and Recursive	
		18/02	25/02	Discuss GATE Questions	
	21 - 26	22/02	01/03	**Tree** Tree Concepts (Tree, Binary, Full Binary, Complete Binary), Memory Representation of Tree	
		23/02	02/03	Tree Traversal Techniques: Pre-order, Post-order and In-order	**1st Unit Test**
		24/02	03/03	Traversal :Recursive and Iterative Algorithms	
		25/02	04/03	Binary Search Tree: Insert operation	
March	28 - 05	01/03	08/03	Delete Operations with all options	
		02/03	09/03	Discuss GATE Questions	
		03/03	10/03	Concept of Threaded Binary Tree	
		04/03	11/03	General Tree to Binary Tree Conversion	
	07 - 12	08/03	15/03	Height-Balance Tree(AVL Tree) : Insert Operation	
		09/03	16/03	Height-Balance Tree(AVL Tree) : Delete Operation	
		10/03	17/03	AVL Tree Examples	
		11/03	22/03	Heap Tree, Heap Sort	
	14 - 19	15/03	23/03	Applications of Tree : Manipulation of Arithmetic Expression, Decision Tree, Hierarchical Tree(Family Tree), Directory structure of File system	
		16/03	24/03	Discuss GATE Questions	
		17/03	25/03	Discuss GATE Questions	

	21 - 26	22/03	01/04	**Graph** Graph concepts (undirected, directed, simple, multi, weighted, null, mixed, cycle, path, forest)	
		23/03	05/04	Memory Representation of Graph,	
		24/03	06/04	BFS	
		25/03	07/04	DFS	
April	28 - 02	29/03	08/04	Applications of Graph, GATE Examples	
		30/03	12/04	Discuss GATE Questions	
		31/03	13/04	**Hashing** Collision-Resolution Techniques : rehashing and chaining	
		01/04		Different Hashing Functions: Division, Mid-square, Folding, Length-dependent, Digit Analysis, Multiplicative ,Applications of Hashing	
	04 - 09	05/04	14/04	Assignment Submission	**2nd Unit Test**
	11-16				
	18 - 23			**Practical Exam : B.Tech**	
	25 - 30			University Theory Exam	
	02 - 07			University Theory Exam	

Annexure V

WHAT IS TECHNOTARANG'22

technotarang.charusat.ac.in

TECHNOTARANG, a new advent by Charotar University of Science and Technology (CHARUSAT), is a pool of most exciting, innovative, and futuristic ideas.

It addresses today's technology to carve a better future. Students and youth from all the top colleges of India along with some leading industries will be here to showcase their talents. Altogether,
CHARUSAT aims to encourage learning, create solutions, and to build technologies for a better tomorrow.

ABOUT CHARUSAT

www.charusat.ac.in

The Iron Man of India, Sardar Vallabhbhai Patel believed, "Education without character is futile". CHARUSAT proudly follows this spirit. It also follows founding High Moral Values like Honesty, Integrity, Transparency, Fairness, Equity, and Accountability.

CHARUSAT offers various programs, viz., UG, PG, Doctoral, Post-Doctoral, Diploma, Value-added and Executive Development Programs under the tutelage of 9 Institutes, 6 Faculties, and various Centers / Cells. An employee strength of 600, student strength of more than 8000 and a Capital Outlay of INR 150 Crores are the scalar dimensions of CHARUSAT. The programs are offered in the allied disciplines of Technology & Engineering, Pharmacy, Computer Applications, Management Studies, Applied Sciences, Nursing, Physiotherapy, and other Paramedical Sciences.

PRIZE MONEY
UP TO 5 LAKHS
GRAND PRIZE
1 LAKH

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KEY COORDINATORS

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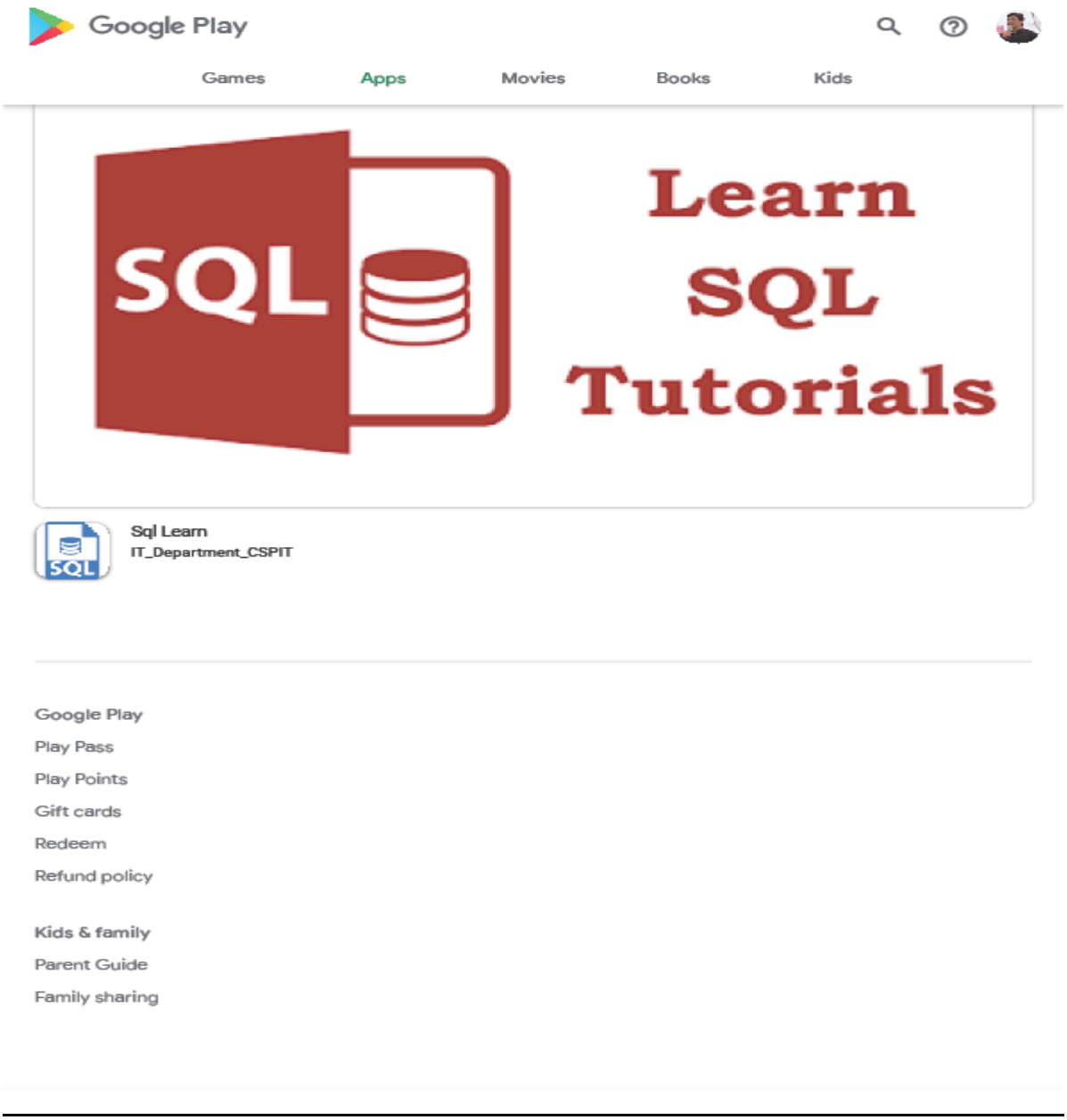
TECHNO TARANG
Today's Tech Tomorrow's Future

Chandubhai S Patel Institute of Technology

DEPSTAR

IEEE Gujarat Section

Google Play Store Application (CSPIT-IT)



MINUTES OF THE 18th MEETING OF THE BOARD OF STUDIES IN DEPARTMENT OF INFORMATION TECHNOLOGY HELD ON 1ST OCTOBER, 2022 AT CSPIT, CHARUSAT

Members Present

Sl. No.	Name	Designation
1.	Dr. Parth Shah	**Chairman**
2.	• Dr Amit Nayak, IT-DEPSTAR. • Dr Bimal Patel, IT-CSPIT. • Dr Nirav Bhatt, IT-CSPIT. • Dr. Pooja Makwana, IT-DEPSTAR. • Ms Chintal Raval, IT-DEPSTAR.	Members
3.	• Dr. Ketan Kotecha, Director & Dean, SIT, Pune. • Prof M A Zaveri, Professor, SVNIT, Surat. • Prof D C Jinwala, Professor, SVNIT, Surat. • Dr Jignesh Bhatt, Assistant Professor, IIIT Vadodara. • Dr. Shilpa Shailesh Gite, Faculty, Symbiosis International (Deemed University), Pune. • Lokesh Mehra, AWS Academy Head India, Amazon Web Services. • Dr. Mahipal Jadeja, Assistant Professor, MNIT, Jaipur. • Mr. Dipak Patel, Director, Charlie Computers.	External Members
4.	• Jeet Thakkar (13IT124), Alumni.	Alumni Member
5.	• Hutish Seju (20IT127). • Raj Dave (D21IT170).	Student members

The following resolutions were made in the BoS,

1.	**Agenda/Item No 1: Confirmation of minutes of the 17th BOS held on August 07, 2021.** **Proceeding 1.1:** The agenda and minutes of the previous Board of Studies meeting, i.e. 17th BOS were circulated in advance. Chairman presented the summary and the action taken on the received suggestions of 17th Meeting of Board of Studies. **Resolution 1.1:** The external and internal BOS members have confirmed the minutes of the previous Board of Studies meeting, i.e. 17th BOS [Annexure-I].
2.	**Agenda/Item No 2: Action Taken on items of the last meeting** **Proceeding 2.1:** The resolution and action taken of previous Board of Studies meeting, i.e. 17th BOS, were briefed by the chairman. **Resolution 2.1:** The external and internal BOS members have confirmed the resolution and action taken for the previous Board of Studies meeting, i.e. 17th BOS.
3.	**Agenda/Item No 3: For Discussion and Approval;** To review and approve the Teaching & Examination Schemes (TES) and detailed syllabus of B Tech 4th Year (7th and 8th semester), of 2020-2021 admitted batch. **Proceeding 3.1:** The TES of B Tech 4th Year (7th and 8th semester), 2020-21 admitted batch has been presented to the experts for the approval [Annexure-II]. **Resolution 3.1:** The BOS members have approved the presented TES of B Tech 4th Year (7th and 8th semester) [Annexure-II].
4.	**Agenda/Item No 4: For Discussion and Approval;** To review and approve the Teaching & Examination Schemes (TES) and detailed syllabus of B Tech 2nd, 3rd and 4th year [3rd to 8th semester] of 2021-22 admitted batch. **Proceeding 4.1:** The TES of and detailed syllabus of B Tech 2nd, 3rd and 4th year [3rd to 8th semester] of 2021-22 admitted batch has been presented to the experts for the approval

	[Annexure-III]. **Resolution 4.1:** The BOS members have approved the B Tech 2nd, 3rd and 4th year [3rd to 8th semester] of 2021-22 admitted batch [Annexure-III].
5.	**Agenda/Item No 5: For Discussion and Approval;** Revision (if any) and approval of the newly added Elective Courses (University, Institute, and Program Electives). **Proceeding 5.1:** The track of elective courses along with the TES of University electives and Program Electives of 2021-22 admitted batch has been presented to the experts for the approval [Annexure-IV]. **Resolution 5.1:** As per the expert's suggestions, the list of elective courses of 2020-21 admitted batch is finalized [Annexure-IV].
6.	**Agenda/Item No 6: For Discussion and Approval;** To review and approve the Teaching & Examination schemes and detailed syllabus of 1st and 2nd year [1st to 4th semester] of 2022-2023 admitted batch. **Proceeding 6.1:** • The TES of B Tech 1st year [1st and 2nd semester] of 2022-2023 admitted batch has been presented to the experts for the approval. After reviewing the proposed TES, experts have suggested to offer the following course in the 2nd semester instead of 3rd semester. ➢ Digital Electronics **Resolution 6.1:** • As per the expert's suggestions, the suggested course of "Digital Electronics" is introduced in the 2nd semester instead of 3rd semester [Annexure-V]. **Proceeding 6.2:** • The TES of B Tech 2nd year [3rd and 4th semester] of 2021-22 admitted batch has been presented to the experts for the approval. After reviewing the proposed TES, experts have suggested to offer the following three courses in the 3rd semester instead of 4th semester. ➢ Data Structures using Java ➢ Computer Architecture & Microprocessor Interfacing

	➢ Database Management System • The experts have suggested the corresponding changes in the 4th semester by offering the following two courses in the 4th semester instead of 5th semester. ➢ Computer Networks ➢ Design & Analysis of Algorithms • The BOS members have suggested to replace the courses of "software group project" from 3rd and 4th semester with the courses that provides the exposure to design and analysis part of software group project. **Resolution 6.2:** • As per the expert's suggestions, the mentioned courses were introduced in 3rd semesters [Annexure-V]. • The exposure of the practical course "JAVA" is clubbed with the course data structure and introduced as a new course "Data Structures using Java" [Annexure-V]. • As per the expert's suggestions, the mentioned courses were introduced in 4th semesters [Annexure-V]. • Based on the expert's suggestion, the courses of "Software Group Project-I" and "Software Group Project-II" from 3rd and 4th semester are replaced with the course "Exploration Project-I" and "Exploration Project-II" Annexure-V].
7.	**Agenda/Item No 7: For Discussion and Approval;** To review and approve the course of Computer Programming from 1st year of core branches (ME/CL/EE) of 2023 admitted batch. **Proceeding 7.1:** The experts have suggested to introduce the course on "Python Programming" in the first year of core branches (ME/CL/EE) instead of "C programming" from 2022-2023 admitted batch. **Resolution 7.1:** As per the expert's suggestions, the suggested course of "Introduction to computer Programming" is revised with contents of "Python Programming" and shall be introduced in the first year of 2023 admitted batch [Annexure-XI].
8.	**Agenda/Item No 8: Approval of Certification courses planned by the department;**

	To review and approve the Certification courses planned by the department. **Proceeding 8.1:** The list of certification courses to be offered by the department have been discussed with the BOS experts. **Resolution 8.1:** By looking at the expertise of the department, members have suggested to offer following certificate courses: ➢ AWS Cloud Practitioner & AWS Solution Architect ➢ Network Defense Essentials ➢ Ethical Hacking Essentials ➢ Digital Forensics Essentials
9.	**Agenda/Item No 9: For Discussion and Approval;** Discussion on the feedback of the stakeholders including exit (last day) feedback of the students to improve the various best practices adopted by the departments. **Proceedings 9.1:** The stakeholders (Alumni, Student, Teacher, and Employer) feedback on curriculum along with feedback analysis have been presented to experts [Annexure VI, VII, VIII]. **Resolutions 9.1:** The feedback of stakeholders has been considered and feasible suggestions have been incorporated in to the teaching scheme.
10.	**Agenda/Item No 10: For Discussion and Suggestion** Discussion on effective implementation of Outcome Based Education (OBE) and utilization of Smart Class Room (ICT) based Teaching Learning. Any suggestion in Performance indicator. Planning of Curriculum and Syllabus according to National Education Policy 2020 (NEP 2020). **Proceeding 10.1:** The Performance indicator were presented to BoS members for discussion, suggestion and Approval. Achievement of Program Outcomes were discussed. **Resolution No 10.1:** The Performance indicators were approved. The attainment of the Program Outcomes and its comments are attached as Annexure IX.

11.	**Agenda/Item No 11: For information** Result analysis of the End Semester Examination conducted during the Academic year 2021-22 and current status of placement records have been presented to the experts. **Proceeding 11.1:** The result analysis of the University exams is discussed. Semester wise result analysis were presented and steps to improve results of slow learner were discussed [Annexure X]. **Resolution No 11.1:** The process to identify week learner and steps to improve the result of weak learner has been decided.

Chairman (BoS)