THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF INFORMATION TECHNOLOGY

PROGRAMME NAME: B.TECH

ALUMNI SURVEY REPORT FOR ACADEMIC YEAR : 2022-23

Date :8-10-2023

Alumni Batch: 2023

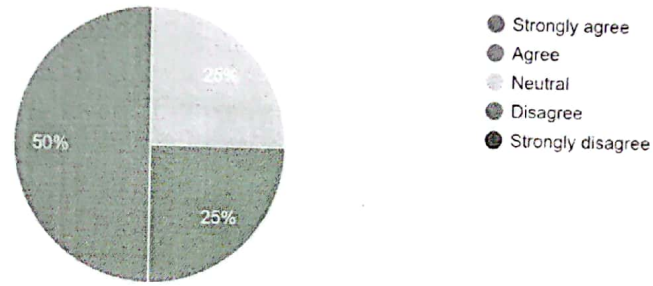
	Courses/Topics/Technologies	Action Taken	
New courses recommended	**Topics Suggested by Alumni**		
	• Data analytics • Data science • Data Structures - In-depth Concepts • OOPS – Real Time Application Creation • Virtual Reality • Cognitive science • Java Springboot, • .NET • Full stack with Database-level knowledge • Web Framework • System design • Advanced Java Web Development • "Soc -Docker , topics on pipeline concepts • Practical on Kubernetes • Teradata, • Dotnet - asp.net web application • C#, • SQL with SSRS report building, • React JS • Service oriented architecture, computer architecture real life examples can be given in practical manner • Modern Javascript Frameworks • Javascript • Artificial Intelligence related topics from the basics from the earlier semesters and in the advanced level in further semesters would be useful. • Springboot • "Exposure to cloud (AWS, Azure), • Practical course on Bigdata handling, • Microsoft Power Bi" • Git as a separate course at least only lab course • Node js • Graphql , Ruby on Rails • System Designing	Course on Spring boot proposed. But wasn't approved as it focuses on specific framework. Could be covered as ISC.	1.Data Analytics and Data Science included in curriculum 2. Service oriented Architecture offered as elective 3. DOCKER concepts covered in Distributed App Development elective 4. AWS, Azure case studies included in cloud computing syllabus 5. In the oops lab, real time application was already included

Programming languages/software framework/ hardware equipment /modern tools to be included in the Curriculum	• React.js, spring • Selenium Framework, Django, Spring Boot • Good graphics systems, VR headsets • "MERN / MEAN • MongoDB • Express • React / Angular • NodeJs " • Kafka, Mongo, basic knowledge on Spring tool suite or eclipse • Python • Golang , • Jenkins • React, asp.net MVC,Teradata, SSRS Report building by sql • C++, • Kotlin, Flutter • Javascipt/jquery • Python flask; spring boot • Apex • R language • "Microservices implementation and deployment • Graphql (for notification management via email,sms,whatsapp)" • language: golang.rust , • Tools : prometheus		Mongodb was already introduced in DBMS Course. Data mining assignment will be implemented using python / R Programming Microservice and its implementation are covered in Distributed Application Development elective and Miniproject is based on development and deployment
Courses / Topics that irrelevant to the current trend	• React framework. • Human computer interaction • C# and .net framework • Wireless communication	Wireless communication, C# and .Net moved into elective	Those who want to do PG, this may help.
Courses to improve personal and interpersonal skills			
	• Webinars on softskills required for interview and in companies can be held for students • Team based learning • Courses that can remove stage fear • Moral science • "Icebreaker sessions / public speaking • Speech sessions and real life simulation sessions • Career development plan as a course • philosophy,psychology	Soft skill Training classes arranged by the college. Alumni Club and English Club activities are planned for interview and public speaking.	

Impact of existing curriculum:

The existing curriculum matches with the emerging domain trends

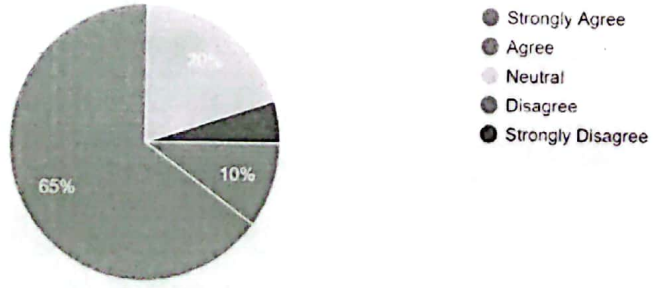
20 responses



Programme Outcome (PO1) – Engineering knowledge.

I am able to apply the principles of mathematics and science in my projects

20 responses



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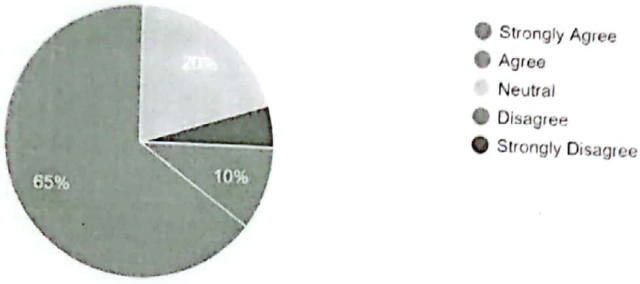

Programme Outcome (PO2) – Problem analysisProgramme Outcome (PO3) – Design/development of solutions

I am able to formulate an engineering problem for the societal/industrial needs and provide solutions with my problem solving skills

20 responses

I am able to analyze and evaluate the assumptions used to solve the problem

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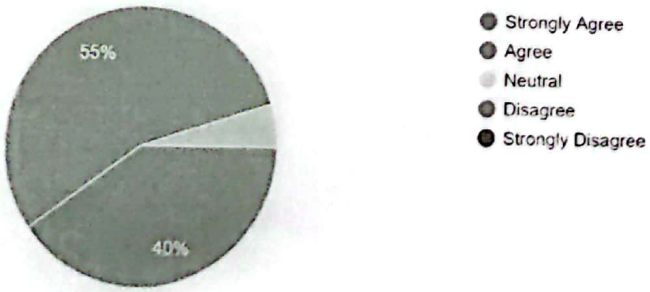

Programme Outcome (PO3) – Design/development of solutions

I am able to find appropriate optimization techniques and synthesize the final design

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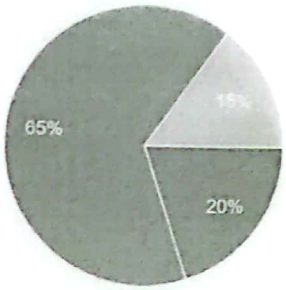

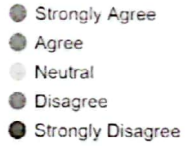

Programme Outcome (PO4) – Conduct investigations of complex problems:

I am able to analyze the trade-offs between alternative design approaches and select the one that is best for your project.

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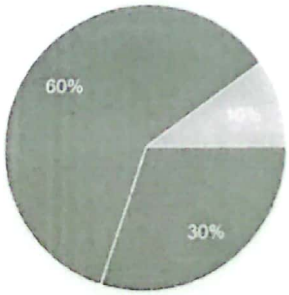

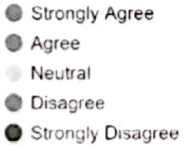

Programme Outcome(PO5) – Modern tool usage

I am able to identify and use appropriate engineering tools and techniques to execute a given task

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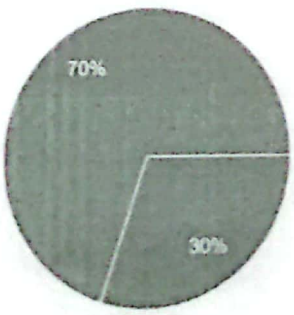

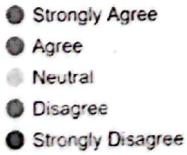

I am able to analyze the limitations of various engineering tools and choose the best to accomplish a task

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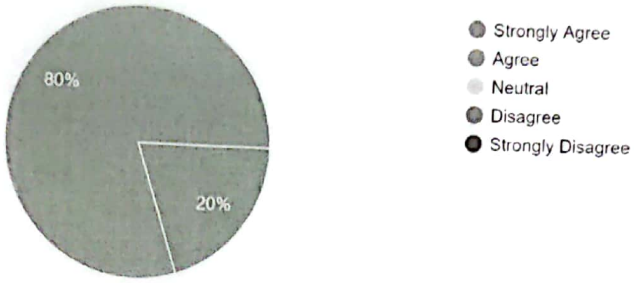
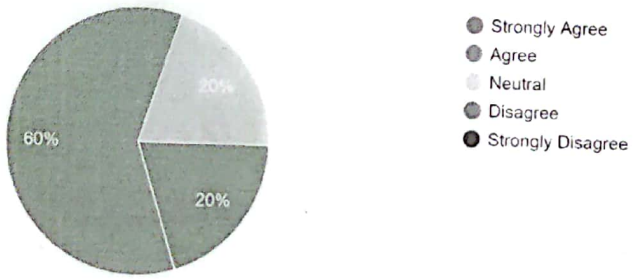


Programme Outcome (PO6) – The engineer and society

I am able to identify the interactions that an engineering project has with the economic, social, health, safety, legal, and cultural aspects of society,

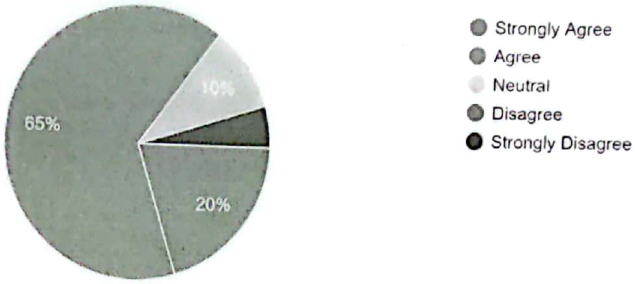
20 responses



Programme Outcome (PO7) – Environment and sustainability

I am able to analyze impact of the professional engineering solutions in societal and environmental contexts

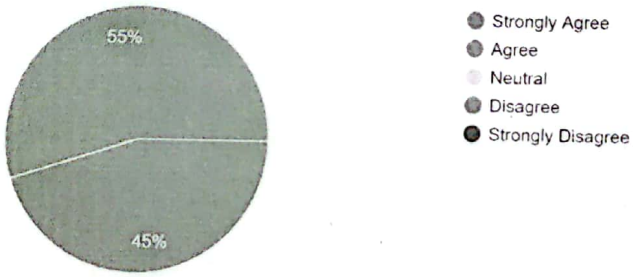
20 responses



Programme Outcome (PO8) – Ethics

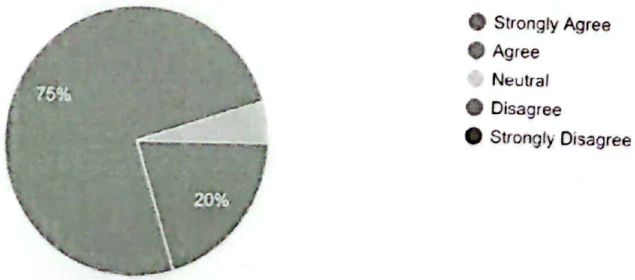
I am aware of ethical principles and professional practices related to my domain

20 responses



I am able to analyze opposing positions on an issue and make a judgment based on the evidence

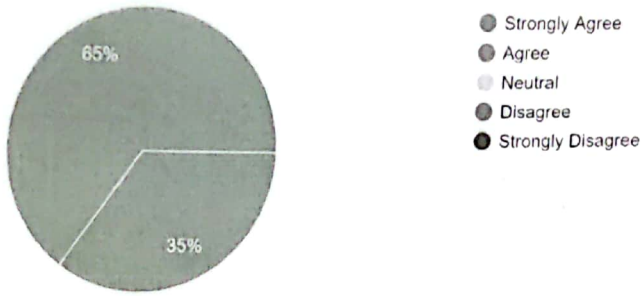
20 responses



Programme Outcome(PO9) – Individual and team work

I am able to analyze the strengths and weaknesses of my team and provide support wherever required

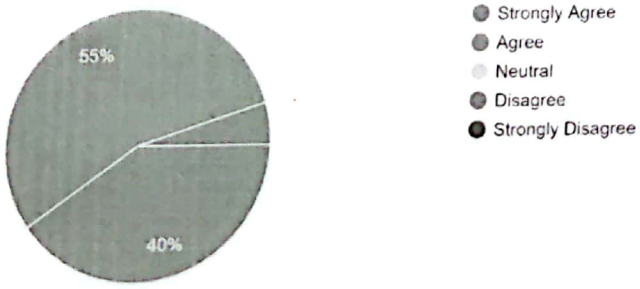
20 responses



Programme Outcome : (PO10) – Communication

I am confident in delivering a clear and organized formal presentation to a group of professionals and make effective documentation

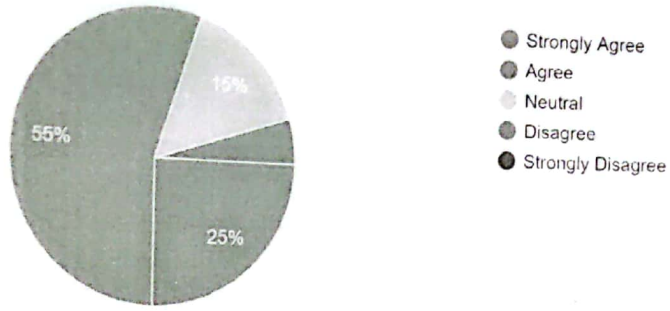
20 responses



Programme Outcome (PO11) – Project management and finance

I am able to apply project cost management principles to ensure that a project is completed within budget.

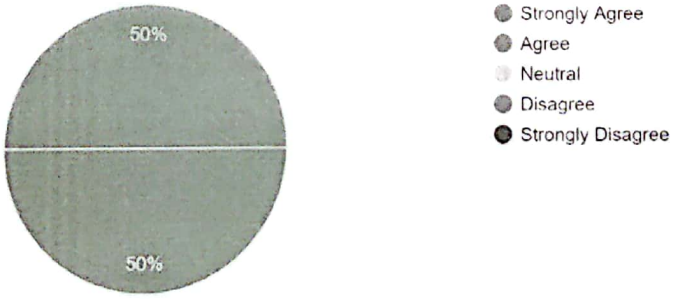
20 responses



Programme Outcome (PO12) –Life-long learning:

I am comfortable in learning new technologies and update myself to the growing needs

20 responses



Alumni Coordinator

Dr.K.V.Uma

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THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI

DEPARTMENT OF INFORMATION TECHNOLOGY

PROGRAMME NAME : B.TECH

ALUMNI SURVEY REPORT FOR ACADEMIC YEAR : 2021-22

Date :23-1-2023

Alumni Batch: 1)2022

General Observations	• Alumni survey got from 2022 batch students for whom we followed CBCS curriculum. • Most of the inputs given by the Alumni were already included in CDIO Curriculum.

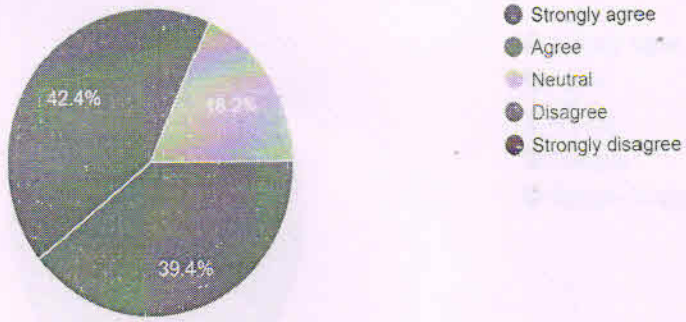
	Courses/Topics/Technologies	Reasons for inclusion/exclusion	Remarks of the Department
New courses recommended	**Topics Suggested by Alumni**		
	• Spring boot • Azure, gcp, sql server • React and Java frameworks • Microcontroller microprocessor basic hardware knowledge to be covered for IT/CS • Any one of the cloud services • Basics of git • ChatGPT, Containerisation , Docker • Testing frameworks (Python, Java - could be made mandatory) • Flask/Django (as an overview along with Web or Python courses) • Node JS / Express JS/React JS, AWS concepts • Jenkins/NewRelic • Angular, React, AR / VR, Devops, Deep learning • Problem solving skills in non linear data structure, • Version control tools as one module in any subject • CI tools specially Git and GitHub , Linux, knowledge on Scrum ceremonies and procedures, writing automated test suites • (as mandatory course) • Design Patterns		Most of the concepts are included in the curriculum
	Courses Suggested by Alumni		
	• UI UX • C++ programming • 2C/1C courses can be conducted on the corporate methodologies and how release deployment, load balancing, monitoring, debugging are done and other concepts. • Extended Reality • Practical Cloud computing & Modern Software development(devops) with aws/azure, • Compiler design • Big data • Docker • Advance level java • TQA (like automation in selenium,		Will consider to include these courses as Elective

	rabotframeworks, protractor) • Mobile App Development • Data Analytics • E-commerce and ERP (Enterprise Resource Planning) • web development using Java • Compiler design • Introduction to computer hardware • System design		
New technologies recommended	• Containerisation technologies, Kafka, API		This course is already included in 2022 curriculum framework
New tools recommended	• Automation tools, containerisation, kubernetes, docker • Django, AWS • Git, GitHub, Bitbucket, Linux environment, • Minitab, SPSS • Atlassian • Cyberark Tool Pega • Data Analytics tools		Will consider to include in core courses for performing case study implementation
Courses / Topics that irrelevant to the current trend	Human Computer Interaction		Need for some Industry
	Software defined networks, sensor programming		
	Wireless sensors		
	ITOM		
	Physics		Common courses for First year students
	Chemistry		
Courses to improve personal and interpersonal skills			
	• Public speaking, • Professional content writing • Team organisers activities • Online based Soft skills courses can be provided • Entrepreneurship • "Understanding the corporate world, • How to handle stress at workplace • Few workshops to Enhance the Leadership and Team coordination skills • Corporate communication skills, email writing • Vocabulary building using games • Leadership skill building • Any non-technical elective Marketing, Sales, Accounting, Finance, Human Relationship courses		Will consider to offer this as a elective course

Impact of existing curriculum:

The existing curriculum matches with the emerging domain trends

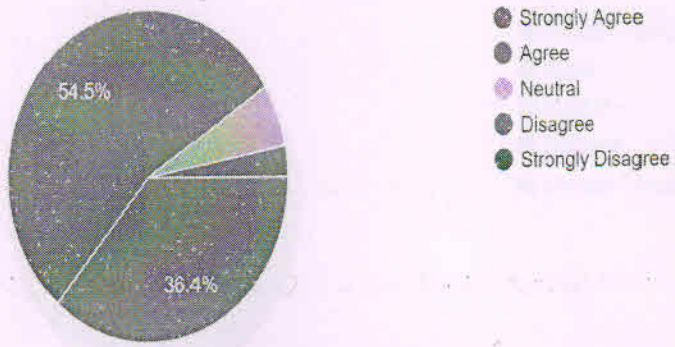
33 responses



Programme Outcome (PO1) – Engineering knowledge.

I am able to contribute significantly in providing a technical solution for complex engineering problems

33 responses



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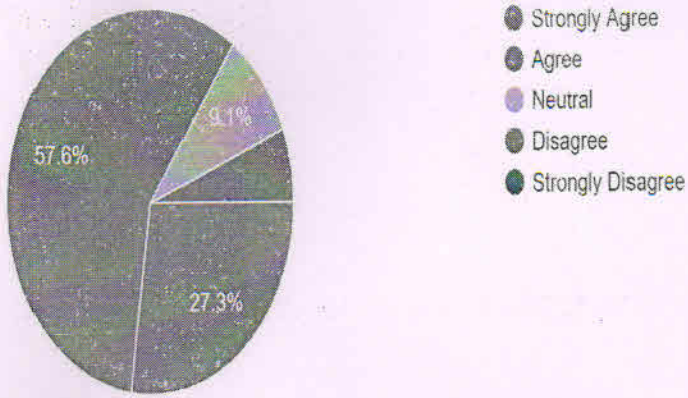

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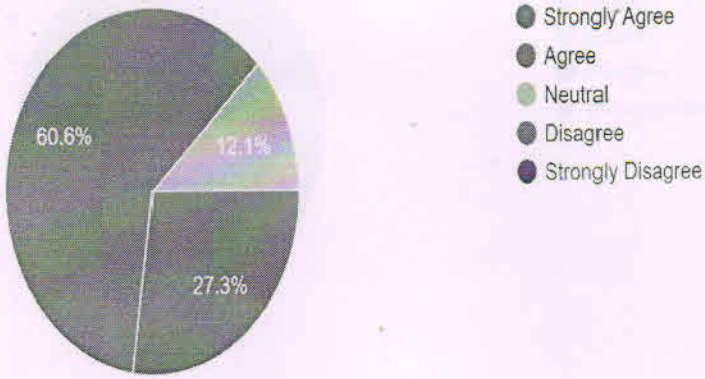

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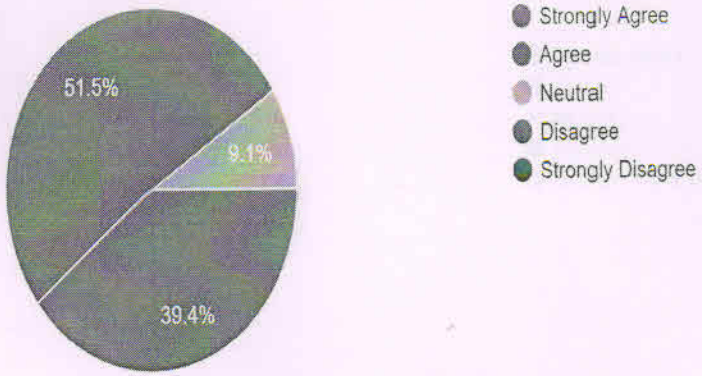

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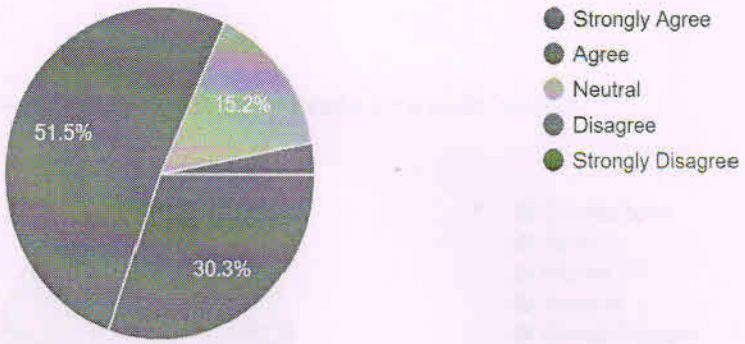
I am able to develop and use prototypes to solve the complex engineering problems

33 responses



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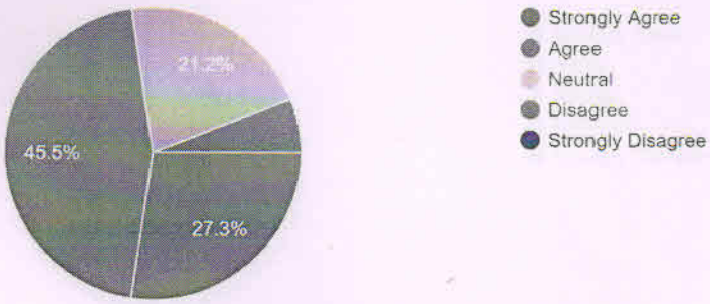
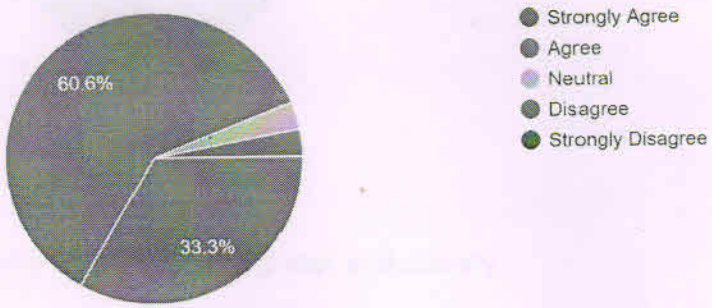


Programme Outcome (PO4) – Conduct investigations of complex problems:

I am able to collect and interpret customer needs for a given project.

33 responses



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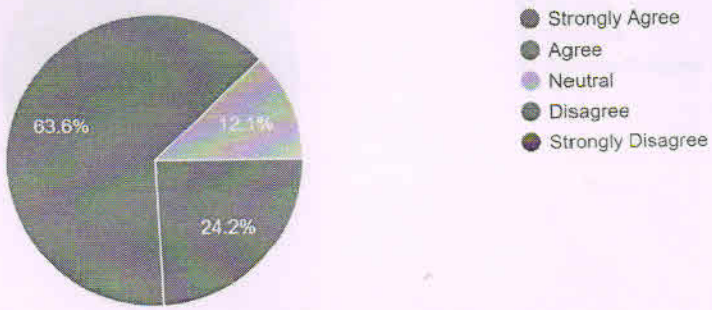

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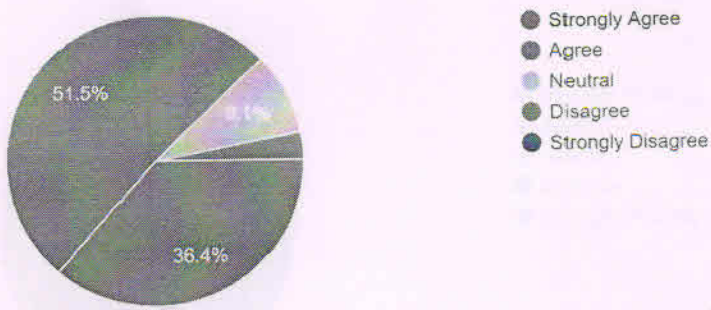

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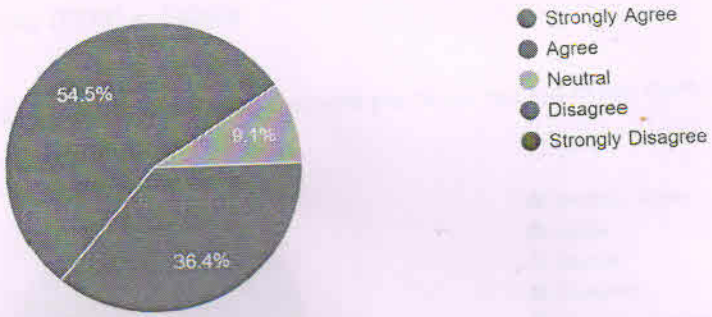

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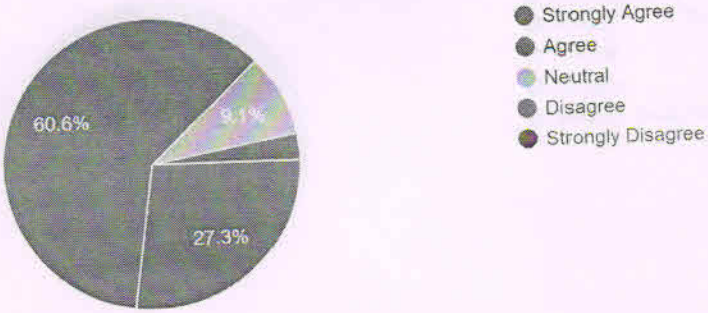

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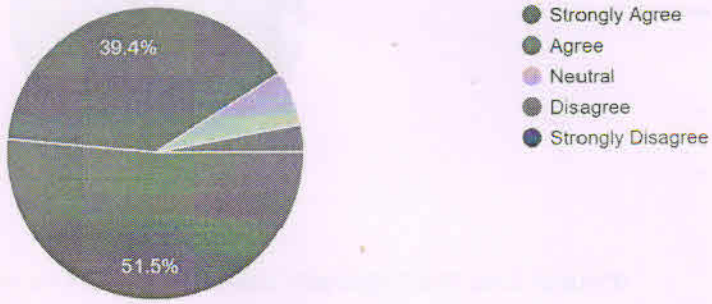

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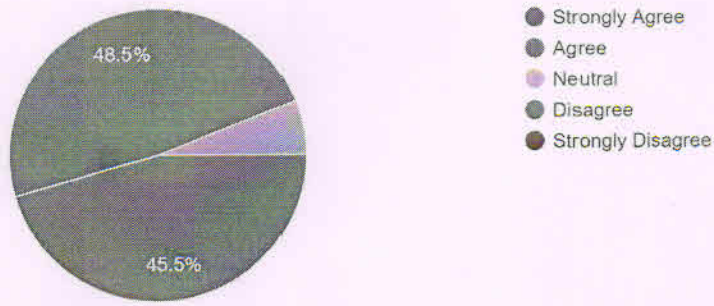

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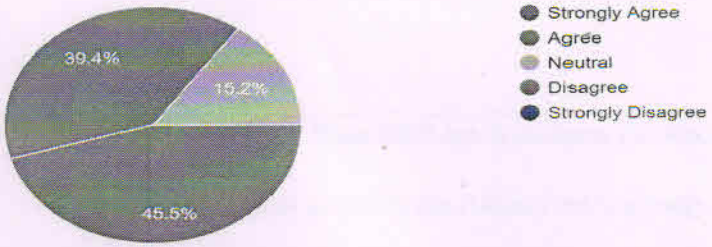

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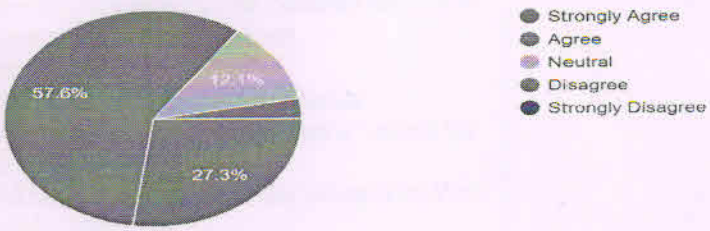

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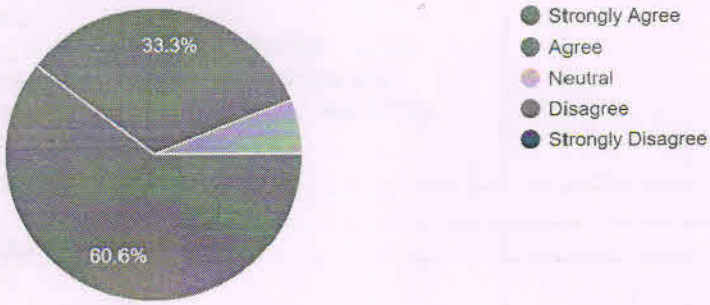

Alumni Coordinator

Dr.K.V.Uma

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HOD/IT

Dr.C.Deisy

Thiagarajar College of Engineering, Madurai 625015
(A Govt. Aided, Autonomous Institution Affiliated to Anna University)

Department of Information Technology

Alumni Feedback for the Year 2020-2021

S.No	Feedback Description	Action Taken /Activities Implemented
1	Students have to be involved in writing technical blogs and focussed on their communications skills	- English Club organized activities to impart oral and written communication skills among students - IoT club organized events like Technical Blogs Writings
2	Institute has to focus and give emphasize on Higher Studies and explore the possibilities of Techno-Ventures	- Career Guidance Cell organizes GATE coaching classes and Language classes - Entrepreneurship Cell organizes patent workshops and Triveni expo
3	Societal problems have to be addressed by Students curriculum projects	- Societal problems and Hackthon problems are given for Mini-projects and Final year projects
4	New programming technologies Pig and Hive to be introduced in the curriculum	- Industry supported course "Hadoop Eco System Tools" offered by CDAC Chennai - Programme Elective course "Big Data Technologies" designed
5	Students can be motivated to take Online Courses	- Credit transfer to NPTEL Courses for the equivalent of Programme Elective courses - Courses like Problem Solving using Computers considered NPTEL assignments for course Assignments -College has provided the opportunity for the students to undergo courses in Coursera and edx

6	Students may be encouraged for the use of Collaborative tools like GitHub, programming platform like HackerRank, Kaggle and contribution to open source community	- Courses like WebTechnologies used GitHub for team projects - Courses like Data Structures used HackerRank challenges for course assignments - Courses like Data Mining used Kaggle platform for datasets
7	Students have to be exposed to industry practices	- Techtalks/Guest Lectures/Webinars by Alumni and Industry experts - Industry supported courses on the contemporary technologies - Internship at Industries
8	Students have to be trained for technical aptitude and coding rounds	- Activities of TCE-IT Association, Coders club, Mobile App Club, IoT Club are in aligned with placement preparation - HackerRank challenges are assigned to improve dream slot placement
9	Alumni Mentoring Club	-Alumni Mentor assigned for Third year students.Webinars on Preparation for Higher Studies,Algorithms:Placement Perspective were conducted.

HOD IT

THIAGARAJAR COLLEGE OF ENGINEERING, MADURAI 625 015.
Department of Information Technology
Alumni Feedback report for the curriculum Design (Revamp Process)

PARAMETERS	SUGGESTIONS	Action Taken
CONTENT TO BE ADDED IN THE CURRICULUM	• OS RUNNING ON EDGE DEVICES. • DEVICE TO CLOUD AND DEVICE TO DEVICE COMMUNICATION IN IOT, • DOCKERS AND THIER DEPLOYMENT STRATEGY TO EDGE DEVICES	Recommended to the Course designers to consider the suggestions during curriculum Revamp 2019-20,2020-21
	• CONCURRENT COLLECTIONS,DESIGN PATTERNS JAVA SERVLETS,WEB SERVICES,ANGULAR JS	
	• MATERIAL DESIGN CONCEPT	
	• KOTLIN FOR ANDROID DEVELOPMENT (EVERYONE IS MOVING TOWARDS TO KOTLIN FROM JAVA FOR ANDROID INCLUDING GOOGLE. THERE ARE COUPLE OF REASONS, KOTLIN (JVM BASED LANG) IS MUCH EASIER LANGUAGE (CLIENT, SERVER AND ANDROID SUPPORT) GOOGLE & ORACLE LAW SUIT AGAINST JAVA USAGE.	
	• ANDROID SUPPORT LIBRARIES & JETPACK ANDROID (ANDROID BASIC LIBRARIES FROM GOOGLE USED BY ALMOST EVERY COMPANY RUNNING ANDROID APPS)	
	• MOVE FROM ECLIPSE TO ANDROID STUDIO • JENKINS, DOCKER, KUBERNETES, MESOS/MARATHON	
CONTENT TO BE REMOVED FROM THE CURRICULUM	• GAMING	
	• STORAGE MANAGEMENT, BACKUP MANAGEMENT	
	• SWING	
	• WORKING OF ACTUATORS	
PROGRAMMING LANGUAGES / SOFTWARE FRAMEWORKS / TOOLS	• ARDUINO, DEPLOYMENT SOLUTIONS LIKE RESIN,NXP	
	• ANDROID STUDIO AND KOTLIN (ALTERNATIVE TO JAVA)	
	• GO, JENKINS, BASH SCRIPT, PYTHON	
	• SPRING COULD BE AN EXCELLENT FRAMEWORK TO LEVERAGE JAVA TO A GREATER EXTEN	

HOD/IT

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