Capstone Project 2019-20

BSCS 7th Regular

PROJECT IMPLEMENTATION PLAN

Sr.	Milestone Detail	Outcome	Project %	Roll#	Member's Contribution	Learning Outcome	Viva
	Implementation on structure of Arduino			BSCSF16M016	Coding	Learning of Arduino development	
1	Mega using Arduino	Blinking of led	3%	BSCSF16M049	Installation	Learning of Arduino development	
	IDE and blinking the led.						
	Build the features		10%	BSCSF16M016	Coding, Connections	Coding on Arduino IDE	
	required on LCD of	LCD interface		BSCSF16M049	Connections	Coding on Arduino IDE	
2	the system and its						
	interface.						
3	Implementation on PIR motion sensor	Detection of motion	20%	BSCSF16M016	Coding, Connections	Learning about module of motion	
	module that will			BSCSF16M049	Coding	Learning about module of motion	
	detect motion of intruders						
4	Further		25%	BSCSF16M016	Coding	Motion Detection through sensor	
	implementation on PIR Sensor	Detection of Motion		BSCSF16M049	Coding	Motion Detection through sensor	
5	KeypadEach press of keyImplemention on thewill be captured asArduino Megavalues	35%	BSCSF16M016	Coding, Connections	Learn about taking inputs through keypad		
			BSCSF16M049	Coding	Learn about taking inputs through keypad		

Team

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6	Working on IR		40%	BSCSF16M016	Coding, Connections	Learning about module of Flame detection
	flame detection module with	Detection of Flames		BSCSF16M049	Coding	Learning about module of Flame detection
	working on its features that will					
	detect flames					
7	Further implementation on		45%	BSCSF16M016	Coding	Flames Detection through sensor
	IR flame detection			BSCSF16M049	Coding	Flames Detection through sensor
	Sensor	Detection of Flames				
8	Working on Gas sensor that will		50%	BSCSF16M016	Coding, Connections	Learning about module of Gas detection
	detect Gas leakage	Detection of gas leakage		BSCSF16M049	Coding	Learning about module of Gas detection
	for the system, for this purpose we will					
	make					
	implementation on MQ2 sensor					
9	Further implementation on	Detection of gas leakage	55%	BSCSF16M016	Coding	Gas Detection through sensor
	MQ2 sensor			BSCSF16M049	Coding	Gas Detection through sensor

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10	module and all the	Source of sending and receiving data or signals	60%	BSCSF16M016	Installation, Connections	Learning about GSM Sim 900 Module
	commands it requires for its			BSCSF16M049	Installation	Learning about GSM Sim 900 Module
	working on registration of users					
11	Sim card	A message to be sent to the user incase of	70%	BSCSF16M016	Coding, Installation	Learn about way of sending and receiving messages
	Installation on GSM module and sending and receiving	emergency		BSCSF16M049	Coding	Learn about way of sending and receiving messages
	messages through the system					
12	Authentication phase that includes	Identification of users	80%	BSCSF16M016	Coding	Learn about authentication phase
	pin code verification			BSCSF16M0049	Coding	Learn about authentication phase
13	Implementation on change of registered	Registration of people	85%	BSCSF16M016	Coding	Learn about Security measures
	numbers on the GSM module and			BSCSF16M049	Coding	Learn about Security measures
	GSM moante ana					

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	add or delete neighbors mobile numbers					
14	Building an alarm system that will ring on unwanted situations	A system that will ring for the user on the required time	90%	BSCSF16M016	Coding, Connections	Learn about ringing of alarm on the required situation
				BSCSF16M049	Coding	Learn about ringing of alarm on the required situation
15	By using Jumper A well structured system	95%	BSCSF16M016	Connections	Learn about circuit making	
	cables and breadboard build	pard build that will contain all the modules		BSCSF16M049	Connections	Learn about circuit making
	the system as a whole					
16	Designing a module	A complete system that will have all the requirements of our system	100%	BSCSF16M016	Designing, Installation	Learn about designing a system
	to place all of our implementation in a			BSCSF16M049	Designing, Installation	Learn about designing a system
	well designed structural system					

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