Event Report

1. **Name of Event:** Vigyan 2.0 Hackathon 2022
2. **Nature of the Event:** Hackathon
3. **Date:** 29th to 31st March, 2022
4. **Time:** 09:00 A.M. onwards on 29th March to 07:00 P.M. on 31st March, 2022
5. **Venue:** 2nd Floor, GUIITAR Council, Anvikhsa, GSFC University, Vadodara and https://meet.google.com/yxr-cqtq-xcy
6. **Organized by:** Startup Gujarat, GSFC University, GUIITAR Council, SSIP, and IIC (MoE GoI)
7. **Supported by:** Startup Gujarat Cell, Industries Commissionerate, Govt. of Gujarat
8. **Role of State Government:** Industries Commissionerate, GoG
    A. 75% funding support for organizing Hackathon 2022
    B. Promotion of Hackathon 2022
    C. Guidance and Support to organize Hackathon 2022
    D. Gujarat State Biotechnology Mission(GSBTM), GoG, Gandhinagar provided problem statement for the Hackathon 2022
9. **Number of Participants:** 110 Participants, Annexure – 1
10. **Event Statistic:**
    A. Total Teams: 26
    B. Total Participants: 110
    C. GSFC University Teams: 23 Team
    D. Outside Teams: 3 (1 Team from Ganpat University, 1 Team from Parul University and 1 Team from GTU)
    E. Total Female: 28
    F. Total Male: 82
    G. Team Size: Min. 1, Max. 7 and Average 4.23
    H. Total Team Mentors: 15

11. Jury Members:

A. Internal Jury Member: 1st Round of Mentoring and Evaluation

Sr. No.	Name	Designation	Institute/ Industry	Mobile No.	e-mail
1	Ms. Shweta Rajput	Assistant Professor	GSFC University	9879209842	shweta.rajput@gsfcuniversity.ac.in
2	Dr. Viraj Bhanvadia	Assistant Professor	GSFC University	9998007576	viraj.bhanvadia@gsfcuniversity.ac.in
3	Dr. Trupti Gajaria	Assistant Professor	GSFC University	9898802434	trupti.gajaria@gsfcuniversity.ac.in

B. External Jury Members: 2nd Round of Evaluation and Power Round

Sr. No.	Name	Designation	Institute/Industry	Mobile No.	e-mail
1	Mr. Pradip Patel	CEO	Prime UAV	9722063653	info@primeuav.com
2	Mr. Rudresh Vyas	Head Education	Engg. Technique	9376211272	rvyas@enggtechnique.com
3	Mr. Prakash Vaghasiya	CEO	Vise Innovative Solution Enterprise Pvt. Ltd.	9601365935	visedirector@gmail.com

12. Judging Criteria: As per Annexure -2

13. Event Schedule:

Date	Time Hrs.	Activity	Location
Day 1 29/03/22	09:00 – 10:00	Inauguration	https://meet.google.com/yxr-cqtq-xcy
	10:00 - 13.00	Hackathon work begins	https://meet.google.com/yxr-cqtq-xcy
	12:00 - 13:00	Lunch Break	Canteen
	13:00 - 15:00	Hackathon work continue	https://meet.google.com/yxr-cqtq-xcy
	15:00 - 17.00	First Round of Training/Mentoring session	https://meet.google.com/yxr-cqtq-xcy
	17:00 onwards	Hackathon work continue	https://meet.google.com/yxr-cqtq-xcy
Day-2 30/03/22	09:00 to 9:30	Breakfast	2nd Floor, Anviksha
	09:30 to 10:30	Hackathon work continue	GUIITAR Council, 2nd Floor, Anviksha, GSFCU
	11:30 - 13:00	Second Round of Evaluation	GUIITAR Council, 2nd Floor, Anviksha, GSFCU
	13:00 - 14:00	Lunch Break	Hostel Mess, Ground Floor
	14:00 to 15:00	Hackathon work continue	GUIITAR Council, 2nd Floor,

			Anviksha, GSFCU
	15:00 - 16:30	Power Judging	GUIITAR Council, 2nd Floor, Anviksha, GSFCU
	16:30	High - Tea	GUIITAR Council, 2nd Floor, Anviksha, GSFCU
	16:30 onwards	Hackathon work continue	Idea Submission
Day -3 **31/03/22**	15:00 to 17:00	Visit by Shri. P. K. Taneja, IAS (Retd.), President, GSFCU	GUIITAR Council, 2nd Floor, Anviksha, GSFCU
	17:00	Result Declaration	Auditorium, SoT, GSFCU

14. Themes and Problem Statements:

A. Biotech
B. Cleantech & Greentech
C. Drone
D. Smart Automation
E. Frugal innovation
F. Themes based on Smart India Hackathon 2022
G. Any Novel idea that can solve problems of society, industry & institute at large

Sr. No.	Biotech
1	Natural or Biological or Green synthesis of Azadirachtin
2	Waste Water Management

Sr. No.	Cleantech & Greentech
1	Oil removal from wastewater
2	Dye removal from wastewater
3	Hydrophobic coating spray based on nano polymer.
4	Nanopolymer based water soluble thin film with different carriers.
5	Design optimization of wind blade for 1KW vertical axis wind turbine
6	Design optimization of PMSM generator or maglev generator for 1KW vertical axis wind turbine
7	Development of PCB recycling machine for small scale use
8	Development of solar panel recycling machine for small scale use.
9	Waste generation mapping by software
10	Water harvesting for Society
11	Green Waste use for Society

Sr. No.	Drone
1	Increasing the flight time of agricultural drone
2	Design and develop a seed spreading mechanism for drone
3	Design and develop a winch mechanism for drone
4	Regeneration on the fly
5	Rotor design

Sr. No.	Smart Automation
	Problem Statements for University/ College Students
1	Synthesis of Tungsten Carbide at low temperature

Sr. No.	Frugal innovation
	Problem Statements for University/ College Students
1	STEAM based Educational Gadget (preferred 3D printable)

15. Problem Statements Received from:

A. Gujarat State Biotechnology Mission, GoG, Gandhinagar
B. Vise Innovative Solution Enterprise Pvt. Ltd., Vadodara
C. R B Engineering, Rajkot
D. Engineering Technique, Vadodara
E. Prime UAV, Mehsana
F. Technoride Solution Pvt. Ltd., Vadodara
G. Smart India Hackathon 2022: https://www.sih.gov.in/sih2022PS

16. Event Details:

GUIITAR Council, GSFC University, Startup Gujarat Cell – Industries Commissionerate, Students Startup Innovation Policy (SSIP) and Institution's Innovation Council (MoE) organized a **Vigyan 2.0 Hackathon 2022** from 29th to 31st March, 2022 Online and Offline Mode.

The Inaugural Ceremony of Vigyan 2.0 Hackathon 2022 was hosted by Mr. Kirankumar Parmar, Sr. Manager, GUIITAR Council on 29th March, 2022 through the online platform GOOGLE Meet. The ceremony started with a warm welcome to the GSFC University Management, Internal Jury Members, Faculty Mentor, CEO – GUIITAR Council and Participants. Dr. Saroj Shekhawat, CEO, GUIITAR Council

welcome all the participants and wished for the success of the event. She congratulated the organizing team for such a value-adding event under the Vigyan 2.0.

Mr. Kirankuamar Parmar briefed the three days of Hackathon 2022 schedule, rules & regulations, Judging criteria, Location and Prize to the participants. After successful completion of the inauguration ceremony, all the participated teams were asked to begin their Hackathon work.

On the first day 29th March, 2022 of Hackathon 2022, a total of 26 teams and 110 participants were invited for the first round of Mentoring and Evaluation. Internal Jury Members Ms. Shweta Rajput, Dr. Viraj Bhanvadia and Dr. Trupti Gajaria mentored and evaluated all the team of Hackathon 2022. They are evaluated based on the solution approach to the problem, ambitiousness/complexity/impact factor, technology and innovations attributes, execution attributes and showcase/user experience attributes. All the teams had kindly expressed their progress and their expected outcome to the Internal Jury Members. The expert highlighted certain pros and cons of each respective project and asked them to improvise further and come up with a perfect end-product.

On the second day 30th March, 2022 of Hackathon 2022, a total of 26 teams and 110 participants were invited to the 2nd Floor, GUIITAR Council, Anviksha, GSFC University. Student volunteers welcomed external jury members Mr. Pradip Patel, Mr. Rudresh Vyas and Mr. Prakash Vaghasiya with a flower bouquet and introduced them to the participants.

All the 26 teams were allocated seating space in seven GUIITAR Council labs. Each team has given a number for identification and evaluation purpose. External Jury members visited all the 26 teams' participants and the second round of evaluation was completed. After an efficient interaction, teams got encouraged to modify their project and had the desired outcome. They have again evaluated all the teams in the final power round and submitted marks for the result declaration. Few teams had amazing execution which impressed Jury Members due to which they got an opportunity to work under the guidance of the team for further development.

Dr. Nikhil Zaveri, Provost, GSFC University visited and interacted with all the teams on 30th March, 2022. He congratulates all the participants for participating in Vigyan 2.0 Hackathon 2022 to demonstrate their ideas/projects for validation and to provide a solution to the Industry/Institute.

Shri P. K Taneja, President, GSFC University, Dr. Nikhil Zaveri, Provost, GSFC University, Dean, Associate Dean, Sr. Management of GSFC University, Faculty Members, Vigyan 2.0 Team and GUIITAR Council Team visited and mentored more than 20 teams on 31st March, 2022. President, GSFC University has interacted with participants and motivated them to research more on the ideas of Product/Service/Process development. He has also instructed Sr. Manager, GUIITAR Council to provide all the necessary support to the students for their start-ups.

Shri P. K Taneja, President, GSFC University has distributed Cash Prize from GSFC University and Winner Trophies to the 1st, 2nd and 3rd Winners of Vigyan 2.0 Hackathon 2022 on 31st March, 2022.

Mr. Kirankumar Parmar, Sr. Manager, GUIITAR Council expressed the vote of thanks to the participants for attending the Vigyan 2.0 Hackathon 2022, Shri P.K. Taneja, President, GSFC University, Dr. Nikhil Zaveri, Provost, GSFC University, Shri Mahesh Barot, Asst. Director (Admn.), Senior Officer of GSFC University, Dean, Associate Dean, Faculty Members, Vigyan 2.0 Team and GUIITAR Council Team for their guidance and support.

Mr. Kirankumar Parmar, Sr. Manager, GUIITAR Council also expressed the vote of thanks to the Core Committee members of Vigyan 2.0 Dr. Rajni Pania, Assistant Prof. - Chemistry & Co-Ordinator, Dr. Saroj Shekhawat, Assistant Prof. – Biotechnology, Dr. Ankit Sudhir, Assistant Prof. – Biotechnology, Dr. Mriganka Das, Assistant Prof. – Chemistry for their support to organize the event successfully.

17. Learning outcomes of the event:

A. The event helped each team to give exposure to their ideas so that they can come to know about the drawbacks of their ideas and can overcome that before the final PoC/Prototype development.
B. All the participating teams have been offered to provide startup related support and mentorship under GUIITAR Council.
C. Industry experts also gave their valuable suggestions for the betterment of each project and guided them on how they can improve their product so that it is ready to face the competition in the market. Experts are also interested to mentor some of the ideas personally.
D. President, GSFC University has interacted with more than 18 teams and motivated them to convert their idea into a product. Annexure -4
E. Vigyan 2.0 Hackathon 2022 provided participants the opportunity to showcase their innovative ideas & projects and improve further for Product development.

18. How will it be useful for Students/School/University:

A. The participating teams will be encouraged and supported in further development of their PoC/Prototype and identify commercial applications of their ideas.
B. The event helps students to validate their idea for continuous improvement.
C. It helps students to solve interesting technical/business problems and take on real-world challenges.

19. Winners and Participants Certificates:

20. Winners Details: Annexure -3

Winner Rank	Marks out of 130	Team ID	Theme	Problem Statement	Name	Cash Prize given by GSFC University
1	88.67	16	Food	Idea is focusing to Tackle Food Loss in India and to feed Poor People	Mansi Chaudhari Neha Chaudhari	15,000/-
2	88	10	Smart Automation	Automation System for Hydroponics	Dhairya Sharma Veera Patel Tirth Jadvani Shrey Ghadge	10,000/-
3	83.33	7	Defence	Multi Utility Tactical Unmanned Ground Vehicle (Robot Solders)	Atriya Biswas Dhairya Sharma Chitrarth Desai Aman Jaiswal Shrey Ghadge	7,500/-

1st Rank

2nd Rank

3rd Rank

21. Photos:

GUIITAR COUNCIL
Industries Commissionerate
GSFC UNIVERSITY
EDUCATION RE-ENVISIONED
VIGYAN 2.0
VANISHING CARBON FOOTPRINTS
HACKATHON 2022
Theme : Biotech, Cleantech & Greentech, Drone, Smart Automation and Frugal Innovation
Date : 29th, 30th and 31st March, 2022 | Time : 09.00 A.M
Venue : Event Room, 2nd Floor, Anviksha,GUIITAR Councill, GSFC University
Website: www.gsfcuni.edu.in
GSFC_University
gsfcuniversity
gsfcuniversity
gsfcuniversity

REC
2031_NISHANT UPADHYAY
Saroj Shekhawat
Dr. PARIN KANAIYA
Dr Abha Kalaiya
Aman Jaiswal 01
4052_NEHAL PANCHAL
RUDRIKKUMAR PANCHAL
54 others
You
Hackathon 2022, 29/03/2022 at 09:00 ...

VIGYAN 2.0
HACKATHON

VIGYAN 2.0
HACKATHON 2022

VIGYAN 2.0

VIGYAN 2.0
HACKATHON 2022

GUIITAR COUNCIL
GSFC UNIVERSITY
IGYAN 2.0
VANISHING CARBON FOOTPRINTS
2022

IGYAN 2.0
HACKATHON 2022

IGYAN 2.0
HACKATHON 2022

GUIITAR COUNCIL
GSFC UNIVERSITY

GUIITAR COUNCIL
GSFC UNIVERSITY

GUIITAR COUNCIL
GSFC UNIVERSITY

Annexure-1

Participant Details:

Team ID	Theme	Problem Statement	Name	Mobile No.	Email Id	Gender	Sem	Stream	University
1	Drone	Design and Develop a Seed Spreading Mechanism for Drone.	Tejas Patil	8141998303	patiltejaspt76@gmail.com	Male	6	Mechatronics	Ganpat University
			Riddhi Suthar	8866613485	sutharriddhi318@gmail.com	Female	4	Computer Engineering	Ganpat University
			Jaitrik Patel	9327004806	jaitrikpatel19@gnu.ac.in	Male	6	Mechatronics	Ganpat University
			Nishtha Patel	8780328337	nishthap828@gmail.com	Female	4	Computer Engineering	Ganpat University
			Vansh Momaya	6354706741	vanshmomaya9@gmail.com	Male	2	Computer Engineering	Ganpat University
			Rudrik Panchal	9824356766	rudrikpanchal27@gmail.com	Male	6	Mechatronics	Ganpat University
2	Education	To Solve the Problem of FAQs asked by Users to Answer Using AI and ML	Chirag Parmar	6353327862	21bt04019@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Nehal Panchal	8469024347	21bt04052@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Daksh Patel	785983114	21bt04064@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Devanshu Patel	9099869255	21bt04065@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Aryan Vishvakarma	7984889004	21bt04009@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Dhyey Bhatt	7016421160	21bt04014@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Kaushal Gajrani	9426166622	21bt04024@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
3	Drone	Design to solve problem of aerodynamic stability and efficiency of Drone	Shubham Solanki	9773186998	20bt02d019@gsfcuniversity.ac.in	Male	1	Mechanical Engineering	GSFC University
			Kush Soni	8866677891	21bt04125@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Devarsya	9574876308	21bt04113@g	Male	1	CSE	GSFC

			Shah		sfcuniversity.ac.in				University
			Mansi Patel	9662246221	21bt04083@gsfcuniversity.ac.in	Female	1	CSE	GSFC University
			Mahek Chawda	6356026189	21bt04018@gsfcuniversity.ac.in	Female	1	CSE	GSFC University
			Prajeskumar Patel	7016541834	20bt01d076@gsfcuniversity.ac.in	Male	6	Chemical Engineering	GSFC University
			Rahi Patel	9428155110	18bt02032@gsfcuniversity.ac.in	Male	8	Mechanical Engineering	GSFC University
4	Heritage & Culture	Student Innovation - Culture and Heritage	Het Pastagia	8866584244	21bt04061@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Nayan Radadiya	6352537700	21bt04099@gsfcuniversity.ac.in	Male	1	CSE	GSFC University
			Virajkumar V. Patel	8140390836	20bt04039@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Parth Thakkar	8140390836	20bt04031@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Anshita Srivastava	9426354573	20bt04003@gsfcuniversity.ac.in	Female	4	CSE	GSFC University
			Khyati Shah	9157315777	20sc02027@gsfcuniversity.ac.in	Female	4	Biotechnology	GSFC University
5	Smart Automation	Fire Training and Mock Drills through VR Technology	Tej Dhruve	9408733653	19bt05006@gsfcuniversity.ac.in	Male	6	B.tech F & EHS	GSFC University
			Dhruv Desai	6352544283	19bt05005@gsfcuniversity.ac.in	Male	6	B.tech F & EHS	GSFC University
			Amol Jadhav	8849040470	19bt05001@gsfcuniversity.ac.in	Male	6	B.tech F & EHS	GSFC University
			Jahnvi Bundheliya	9408630129	19bt04005@gsfcuniversity.ac.in	Female	6	B.Tech CSE	GSFC University
			Prapti Patel	9558824888	19bt05016@gsfcuniversity.ac.in	Female	6	B.tech F & EHS	GSFC University
6	Healthcare	Build Monthly Pill Distributer	Dutt Parekh	9106760063	20bt02d015@gsfcuniversity.ac.in	Male	6	Mechanical	GSFC University
7	Defence	Robot Solders	Atriya Biswas	8849484100	18BT02002@gsfcuniversity.ac.in	Male	8	Mechanical engine	GSFC University

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			Dhairya Sharma	6355391201	18bt02013@gsfcuniversity.ac.in	Male	8	Mechanical engineering	GSFC University
			Chitrarth Desai	6355391201	18bt02010@gsfcuniversity.ac.in	Male	8	Mechanical engineering	GSFC University
			Aman Jaiswal	6355391201	18bt02001@gsfcuniversity.ac.in	Male	8	Mechanical engineering	GSFC University
			Shrey Ghadge	8141749181	18bt02015@gsfcuniversity.ac.in	Male	8	Mechanical engineering	GSFC University
9	Blockchain & Cybersecurity	Build a solution that is able to undertake Optical Character Recognition (OCR) on handwritten text in Hindi language. The result should be the equivalent text typed in Hindi with over ~70% accuracy. Solutions must address issues such as non-standard ways of writing and poor handwriting.	Kshipra Jadav	8200574411	20bt04013@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Ashish Kumar Patel	7567956253	20BT04004@GSFCUNIVERSITY.AC.IN	Male	4	CSE	GSFC University
			Rishita Patel	9016221837	20BT04038@GSFCUNIVERSITY.AC.IN	Female	4	CSE	GSFC University
			Prem Shilu	9409532892	20BT04046@GSFCUNIVERSITY.AC.IN	Male	4	CSE	GSFC University
			Dhruv Patel	9687654598	20BT04011@GSFCUNIVERSITY.AC.IN	Male	4	CSE	GSFC University
			Devanshi Patel	9104839257	20BT04033@GSFCUNIVERSITY.AC.IN	Female	4	CSE	GSFC University
10	Smart Automation	Low cost Hydroponic System	Dhairya Sharma	7790872755	18BT02013@gsfcuniversity.ac.in	Male	8	Mechanical Engineering	GSFC University
			Veera Patel	6354897360	19bt01044@gsfcuniversity.ac.in	Female	6	Chemical Engineering	GSFC University
			Tirth Jadvani	9978011800	19bt04012@g	Male	6	CSE	GSFC

					sfcuniversity.ac.in				University
			Shrey Ghadge	8141749181	18bt02015@gsfcuniversity.ac.in	Male	8	Mechanical Engineering	GSFC University
12	Heritage & Culture	Ticketless Entry System to Monuments /Museums	Nayan Makwana	9512894769	20bt04021@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Apurv Chokshi	9429123014	20bt04010@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Satvik Santoki	9979703117	20bt04044@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Ayush Chauhan	9510393178	20bt04009@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Ashwini Patil	8554004089	21bt04010@gsfcuniversity.ac.in	Female	2	CSE	GSFC University
			Nalin Jayswal	9558664409	20bt04016@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
13	Greentech	Developing solution for Water Pollution	Samarth Desai	9377004949	20bt01014@gsfcuniversity.ac.in	Male	4	Chemical Engineering	GSFC University
			Khushali Desai	6353932571	20BT01013@gsfcuniversity.ac.in	Female	4	Chemical Engineering	GSFC University
			Soham Dholakia	9624194511	20BT01015@gsfcuniversity.ac.in	Male	4	Chemical Engineering	GSFC University
			Jay Patel	8320881126	20BT01020@gsfcuniversity.ac.in	Male	4	Chemical Engineering	GSFC University
14	Smart Automation	AI based Chatbot to Answer FAQs	Devendra Sharma	9054897951	20BT04045@gsfcuniversity.ac.in	Male	4	Computer Science and Engineering	GSFC University
			Tarun Sinha	6355581662	20BT04049@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Miit Thakar	9825521389	20BT04050@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Priyanshu Jyoti Khound	9106850153	20BT04041@gsfcuniversity.ac.in	Male	4	CSE	GSFC University

			Mahek Chawda	6356026189	21BT04018@gsfcuniversity.ac.in	Female	2	CSE	GSFC University
			Dhruvin Purohit	6351945258	21BT04097@gsfcuniversity.ac.in	Male	2	CSE	GSFC University
15	Biotech	Biodegradable Plastic Development	Ayush Nasit	9328558755	ayushnasit@gmail.com	Male	4	Chemical engineering	GSFC University
			Parth rola	8153900621	20BT01050@gsfcuniversity.ac.in	Male	4	Chemical engineering	GSFC University
			Ruchit patel	8320316934	20BT01043@gsfcuniversity.ac.in	Male	4	Chemical engineering	GSFC University
			Zalak Patel	8128684293	20BT01060@gsfcuniversity.ac.in	Female	4	Chemical engineering	GSFC University
16	Food	Idea is focusing to Tackle Food Loss in India and to Feed Poor People	Mansi Chaudhari	9428747042	mansiychaudhari@gmail.com	Female	8	BTech Chemical Engineering	GSFC University
			Neha Chaudhari	9638746724	nehaychaudhari16@gmail.com	Female	4	BTech Chemical Engineering	GSFC University
17	Travel and Tourism	To develop Mobile software for guiding the tourist (CharDham Yatra & other places) in Uttarakhand state.	Renish Narola	8866929832	20bt04025@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Nishant Viroja	7574914108	20BT04052@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Varada Deshpande	96873 49441	20BT04051@gsfcuniversity.ac.in	Female	4	CSE	GSFC University
			Jenil Patel	82384 40535	20BT04018@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Dhwani Sukhadia	93284 46881	20BT04048@gsfcuniversity.ac.in	Female	4	CSE	GSFC University
			Hasti Chopada	96620 67158	20BT04012@gsfcuniversity.ac.in	Female	4	CSE	GSFC University
18	Agriculture	Bio-Fertilizer from Bagasse	Kavita mistri	7043409891	20msc02001@gsfcuniversity.ac.in	Female	4	Biotechnology	GSFC University
			Rutvi gandhi	9978296339	20msc02007@gsfcuniversi	Female	4	Biotechnology	GSFC University

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			Aayushi Singh	9313107023	20msc02010@gsfcuniversity.ac.in	Female	4	Biotechnology	GSFC University
			Shivani Gohil	6352103573	20msc02008@gsfcuniversity.ac.in	Female	4	Biotechnology	GSFC University
19	Healthcare	Malnutrition and deficiency among the youth	Aashi Chauhan	9737591501	20sc02006@gsfcuniversity.ac.in	Female	4	Biotechnology	GSFC University
			isha deodhar	8980027723	ishadeodhar44@gmail.com	Female	4	Biotechnology	GSFC University
21	Environment	Development of Natural Waste Absorbent Material for Biodegradable Cellulose Sanitary Napkins.	Mayur Bharatkumar Panchal	7874333619	20msc01016@gsfcuniversity.ac.in	Male	4	M.Sc Organic Chemistry	GSFC University
			Kevin K Nariya	9265162122	20msc01015@gsfcuniversity.ac.in	Male	4	M.Sc Organic Chemistry	GSFC University
22	Healthcare Management	AI based advanced Brain Sensing and Voice controlled Wheelchair for Paraplegic/Quadriplegic people.	Kshitij Joshi	9408394721	19bt04013@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Pujan Soni	9427829482	19bt04052@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Rudra Joshi	8200231159	19bt04014@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Hetvi Asniawala	7016703354	19bt04011@gsfcuniversity.ac.in	Female	6	CSE	GSFC University
23	Drone	We are trying to solve the security problems which are dangerous to our military bases/airbases and border security, high alert areas due to drones.	Harshil Bhavsar	9328843160	19bt04004@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Harsh Suthar	9898631088	19bt04053@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Nishant Oza	9016600523	19bt04028@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
24	Frugal Innovation	STEM Based Gadgets	Anirudhsinh R Solanki	9574268610	anirudhsinh22ars@gmail.com	Male	8	Mechanical	GTU
25	Green tech	To make clay as well as water	Pratik Prajapati	9157491246	18BT01069@gsfcuniversity.ac.in	Male	8	Chemical engine	GSFC University

		protection for shoes sole and tyres.						ering	
			Shah Gautamkumar K.	9974904578	18BT01082@gsfcuniversity.ac.in	MALE	8	Chemical engineering	GSFC University
			Priyanshu R Patil	7778015457	18BT01065@gsfcuniversity.ac.in	MALE	8	Chemical engineering	GSFC University
			Tirth A Soni	8320212881	18BT01087@gsfcuniversity.ac.in	MALE	8	Chemical engineering	GSFC University
26	Disaster management	Smart wearable's for rescues/ victims	Harit Naik	7600883013	20bt04023@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Jyot Patel	9510836381	20bt04035@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Harshal Patel	9327635787	20bt04034@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Mahip Patel	9265801587	20bt04036@gsfcuniversity.ac.in	Male	4	CSE	GSFC University
			Keshav Kansara	93287 58473	21bt04035@gsfcuniversity.ac.in	Male	2	CSE	GSFC University
			Prachi Yrevedi	95587 04850	21bt04092@gsfcuniversity.ac.in	Female	2	CSE	GSFC University
27	Smart Automation	Smart Traffic Light with Emergency Vehicle Detection.	Meet Bisht	8000019214	meetbisht2603@gmail.com	Male	4	CSE With cybersecurity	Parul University
			Vedant Joshi	9428038541	vjjc25@gmail.com	Male	6	CSE	MS University
28	Biotech	To solve the problem faced by the farmer, who can't identify the disease in the crop.	Pratik Waghela	8080651706	19bt04060@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Kaivalya Pathak	7016306754	19bt04039@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Manan Lakhani	7016061285	19bt04022@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Kalp Vaidya	8200324879	19bt04057@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Tanmaysinh Khant	9427541240	19bt04018@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
			Vrunal Patel	9909415227	19bt04037@gsfcuniversity.ac.in	Male	6	CSE	GSFC University

			Piyush Makkar	9924274711	19bt04040@gsfcuniversity.ac.in	Male	6	CSE	GSFC University
29	Biotechnology	Herbal Formulations for Burn Treatment	Nishant Upadhyay	9409405111	20sc02031@gsfcuniversity.ac.in	Male	4	Biotechnology	GSFC University
			Tirth Patel	9978027334	20sc02030@gsfcuniversity.ac.in	Male	4	Biotechnology	GSFC University
			Sunayna Singh	9054321849	20sc02028@gsfcuniversity.ac.in	Female	4	Biotechnology	GSFC University

Annexure-2

Guidelines for scoring in Hackathon 2022

First and Second Round Judging Sheet

1. Solution Approach to the Problem	**Marks**
The solution does not address the requirements for the given Industry's problem. The solution only solves a generic technical / IT problem	1 to 3
The solution partly addresses the given Industry's problem. The chosen approach is basic with many known available solutions.	4 to 6
The solution provides a unique approach to the Industry's problem, but it may not be extendable into a platform for larger impact. The team has focused entirely on solving the specified problem in hand.	7,8
The solution completely drives new business model/social engagement using software/technology driven methodology for the specific domain (e.g. what Uber/Paytm did in their domain). The solution has the capability to extend into a platform for larger Impact. The team has thought through the problem to the end and considered all aspects pertaining to the solution.	9,10
2. Ambitiousness/Complexity/Impact Factor	**Marks**
Simple problem statement requiring very little technical input.	1 to 3
Medium Ambitious problem requires a reasonable effort. For the Industry, the problem is real and they welcome the solution, but it is not an immediate/top priority to address.	4 to 6
Fairly Complex problem – requires significant effort. Team has demonstrated their Ambitiousness by selecting to work on the problem. The team has implemented a small subset of the problem and hence its impact to the Industry is minimal. Significant additional effort is needed to implement the solution for the Industry.	7,8
Fairly Complex problem and team has implemented a significant subset of the problem. Problem is very important to the Industry and the Industry can Implement the Solution with minimal additional efforts.	9,10
3. Technology and Innovations Attributes	**Marks**
Not an innovative solution.	1 to 3

Solution is innovative and uses latest concepts.	4 to 6
Solution has been innovatively designed using latest technologies e.g. India-stack, block-chain, machine learning, data insights, human machine interface etc.	7,8
Solution is well thought out and is something extremely unique. It has very innovative approach - effective use of multiple latest technologies.	9,10
4. Execution Attributes	**Marks**
No working demo	1 to 3
Partial working demo to be able to showcase solution to the problem. Integration of code/development was there but not end to end. Demoed multiple parts separately.	4 to 6
Usable and working demo however it was small and felt some development missing. Some of NFRs (Security, Performance) are also considered while implementation	7,8
Completely working prototype of demo which can be repetitively executed. Most of NFRs (Security, Performance) considered while implementation.	9,10
5. Showcase / User Experience Attributes	**Marks**
Not Useful & Confusing operation / access and will not motivate personas / users.	1 to 3
Partly Useful.	4 to 6
Useful - Easy and efficient for users Desirable - Positive first impression, will motivate personas / users	7,8
Extremely Useful - Super easy to operate/access, efficient for users Extremely Desirable - Very positive first impression, will certainly motivate personas / users	9,10

Power Judging Sheet

1. Presentation / Elevator Pitch	**Marks**
Presentation was quite basic and did not address the Problem statement or the Solution highlights.	1 to 3
Mediocre Presentation, addressed the Problem, Solution not clearly articulated.	4 to 6

The Thoughts were random, not systematically presented	
Good Presentation, addressed the problem & Solution. Thoughts were in line, however, missed out some key aspects of the solution.	7, 8
Very good presentation, focused on the problem and the Solution. Well articulated thoughts, bringing out the salient features of what is implemented and the bigger picture to take the solution ahead.	9, 10
2. Significance/Impact for the Industry: To take the solution ahead.	**Marks**
Simple problem statement requiring very little technical input (eg building an App with very little server side components OR building a simple Web page/Website).	1 to 3
For the Industry, the problem is real and they welcome the solution, but it is not an immediate/top priority to address.	4 to 6
The team has implemented a small subset of the problem and hence its impact to the Industry is minimal. Significant additional effort is needed to implement the solution for the Industry.	7, 8
Team has implemented a significant subset of the problem. Problem is very important to the Industry and the Industry can Implement the Solution with minimal additional efforts.	9, 10
3. Demonstrable Showcase	**Marks**
No working demo Few screens but not integrated	1 to 3
Partial working demo to be able to showcase solution to the problem. Integration of code/development was there but not end to end. Demoed multiple parts separately.	4 to 6
Usable and working demo however it was small and felt some development missing. Some of NFRs (Security, Performance) are also considered while implementation	7, 8
Completely working prototype of demo which can be repetitively executed (significant amount of coding or development might have gone in place). Most of NFRs (Security, Performance) considered while implementation	9, 10

Annexure -3

Vigyan 2.0 Hackathon 2022 Result

Team Name	First Round Mean of Total Out of 50	Second Round Mean of Total Out of 50	Power Round Mean of Total Out of 30	Grand Total Out of 130
16	21.00	41.67	26.00	**88.67**
10	19.00	43.33	25.67	**88.00**
7	14.00	42.67	26.67	**83.33**
28	17.00	38.00	23.00	**78.00**
5	7.00	41.67	26.33	**75.00**
6	17.00	37.67	20.00	**74.67**
1	6.00	39.33	25.00	**70.33**
27	10.67	35.33	20.67	**66.67**
22	11.00	33.00	19.67	**63.67**
25	7.33	31.67	17.00	**56.00**
14	9.00	27.00	18.33	**54.33**
26	7.67	27.00	19.33	**54.00**
24	6.33	29.67	17.67	**53.67**
17	17.00	22.33	13.33	**52.67**
4	7.00	27.00	17.33	**51.33**
21	11.00	24.33	15.00	**50.33**
9	15.00	20.67	13.33	**49.00**
13	10.00	24.00	14.33	**48.33**
23	7.00	24.00	16.33	**47.33**
18	12.00	21.67	12.67	**46.33**
15	8.00	21.67	14.33	**44.00**
29	13.00	18.33	12.33	**43.67**
19	9.00	19.00	12.00	**40.00**
3	12.00	17.67	9.33	**39.00**
2	7.00	14.33	8.67	**30.00**
12	7.33	13.33	7.33	**28.00**

Annexure -4

Sr. No.	Theme	Problem Statement	Name	A Suggestion given by Shri. P.K. Taneja, IAS (Retd.), President, GSFCU
1	Drone	Design to solve problem of aerodynamic stability and efficiency of Drone	Shubham Solanki Kush Soni Devarsya Shah Mansi Patel Mahek Chawda Prajeskumar Patel Rahi Patel	President, GSFCU suggested organizing meetings with farmers directly and visiting them at their farms/villages to understand the need and usage of Drone in Spraying fertilizer/pesticides and surveys on Farms. President, GSFCU Also suggested connecting with Industry experts for Drone Development.
2	Heritage & Culture	Student innovation - Culture and Heritage	Het Pastagia Nayan Radadiya Virajkumar V. Patel Parth Thakkar Anshita Srivastava Khyati Shah	President, GSFCU suggested to connect with CEPT University for their project development and guidance. He also suggested studying their technology for Prototype Development. Students were asked to identify an expert in Culture and Heritage sector to guide them more professionally.
3	Smart Automation	Fire training and mock drills through VR Technology	Tej Dhruve Dhruv Desai Amol Jadhav Jahnvi Bundheliya Prapti Patel	VR Module design was highly appreciated by the President.President wanted the students to design more modules with basic training. He gave an example of how a person alone at home would handle fire by explaining three steps. He wanted the students to visit GIDM and discuss the possibility of making

				advanced modules.He also commented on the price of VR Head Set being restrictive and asks them to explore cheaper options without comprising quality so that it can reach a wider audience.
4	Healtcare	Build Monthly Pill Distributer	Dutt Parekh	President, GSFCU liked the idea and congratulate the student. He asks him to build a prototype as it would be extremely relevant to senior citizens and also increase team members to speed up the process.
5	Defence	Robot Solders	Atriya Biswas Dhairya Sharma Chitrarth Desai Aman Jaiswal Shrey Ghadge	President, GSFCU appreciated the idea and discussed in detail about the various integrated systems which will make it one complete unified platform and since it was still into designing phase he ask the students to start the work on Prototype Development.
6	Blockchain & Cybersecurity	Build a solution that is able to undertake Optical Character Recognition (OCR) on handwritten text in Hindi language. The result should be the equivalent text typed in Hindi with over ~70% accuracy. Solutions must address issues such as non-standard	Kshipra Jadav Ashish Kumar Patel Rishita Patel Prem Shilu Dhruv Patel Devanshi Patel	President, GSFCU liked the idea of students and suggested to study Jio Phone translate features and technology for Prototype Development.

		ways of writing and poor handwriting.		
7	Smart Automation	Low cost Hydroponic System	Dhairya Sharma Veera Patel Tirth Jadvani Shrey Ghadge	President, GSFCU was extremely happy with the setup and concept clarity of the team and he appreciated the entire design flow of the system.He commented that similar work was taken up by Gujarat Institute of Desert Ecology (GUIDE), BHUJ and remarked that student's project looks more advanced and has great potential.He asked the students to share the presentation of Idea and Prototype with him so he can discuss it with people working in a similar field.He also mentioned Mr. Fabian Schvartzman, Aero farm Advanced technology in the same field and asked students to study the updated concept and design. He also mentioned to study Ahmedabad based Startup Rise Hydroponic which is working on Hydroponic Farming setup. Students informed that they have already studied Rise Hydroponic for the same.
8	Greentech	Developing solution for Water Pollution	Samarth Desai Khushali Desai Soham Dholakia Jay Patel	Students updated the President sir that they are mid-way of development of Prototype and would require further funding. President, GSFCU asks them to follow the procedure for the fund

				approval and it will be expedited so that they can finish the prototype.
9	Biotech	Biodegradable Plastic Development	Ayush Nasit Parth rola Ruchit patel Zalak Patel	Students updated the President sir that petroleum-based plastic is very harmful to the environment as well as costly. President, GSFCU asked them how confident they are to develop Biodegradable Plastic. Students replied that they are very confident to develop biodegradable plastic
10	Food	Idea is focusing to Tackle Food Loss in India and to feed Poor People	Mansi Chaudhari Neha Chaudhari	President, GSFCU liked the idea of food products developed from wheat and advised to study the same on other grains. He also suggested that students make attractive logo and packaging for Food Products. Students informed President that they are waiting for a testing report of their project and soon will develop an attractive logo and packaging. President suggested selling the product in GSFC University canteen after the satisfactory testing report.
11	Travel and Tourism	To develop Mobile software for guiding the tourist (CharDham Yatra & other places) in Uttarakhand state.	Renish Narola Nishant Viroja Varada Deshpande Jenil Patel Dhwani Sukhadia	President, GSFCU asks students about the facility available through the mobile application and specific Chat Bot Development. He suggested to connect with GIDM for an early warning system feature.

			Hasti Chopada	
12	Agriculture	Reduce organic fertilizer uses	Kavita mistri Rutvi gandhi Aayushi Singh Shivani Gohil	This project was initiated on the suggestion on Dr. Pujan Vaishnav whereby he shared that the organic fertilizer developed by students using bagasse will be used as a free promotional sample by GSFC ltd along with it Product,. GSFC Ltd. will also help in Packaging and displayed it on their counter. President, GSFCU asks students to label the various categories appropriately and come up with catchy names for the final product.
13	Environment	Development of Natural Waste Absorbent Material for Biodegradable Cellulose Sanitary Napkins.	Mayur Bharatkumar Panchal Kevin K Nariya	President, GSFCU asks students about the Price and Ingredients of Biodegradable Sanitary Napkins. He congratulates students on Prototype development. He asked about what are the challenges in their product? Students were asked to find out the challenges vis-à-vis market products.
14	Healthcare Management	AI based advanced Brain Sensing and Voice controlled Wheelchair for Paraplegic/Quadriplegic people.	Kshitij Joshi Pujan Soni Rudra Joshi Hetvi Asniawala	President, GSFCU asks students how to categorize the different types of Brain Signals and if they have taken in into consideration while designing Prototypes. He appreciated the idea and concept.
15	Drone	Drone Destroyer	Harshil Bhavsar Harsh Suthar	President, GSFCU liked the concept of “Drone Destroyer” and asks

			Nishant Oza	students to connect with Industry for guidance.
16	Green tech	To make clay as well as water protection for shoes sole and tyres.	Pratik Prajapati Shah Gautamkumar K. Priyanshu R Patil Tirth A Soni	President, GSFCU liked the concept and asks students to test the Clay Resistance chemical developed for further trials.
17	Biotech	To solve the problem faced by the farmer, who can't identify the disease in the crop.	Pratik Waghela Kaivalya Pathak Manan Lakhani Kalp Vaidya Tanmaysinh Khant Vrunal Patel Piyush Makkar	President, GSFCU asks students to study more about different diseases and develop database for their identification and development of customized fertilizer/pesticides. President suggested connecting with GSFC ltd. for guidance.
18	Biotechnology	Herbal formulations for Burn treatment	Nishant Upadhyay Tirth Patel Sunayna Singh	President, GSFCU ask students if similar kind of products is already available in the market and how their product is different. Students said they are working on Bio-Polymer-based Ayurvedic Spray which is unique. President was informed that no spray for burn treatment is currently available on the market. That makes their product unique.