



Government College of Technology, Coimbatore-13

Department of Industrial Biotechnology

Circular

09.03.2022

Smart India Hackathon (SIH) - 2022 season has begun and a total of 8 teams from our department are participating for various problem statements. In this regard, Internal Hackathon is to be conducted on 10.03.2022 at 10.30 am in IBT seminar hall to choose the best team. An industry expert, Dr. Ayyavu Mahesh, Director, AMI BioScience, Coimbatore is invited as a jury member to evaluate the teams. Hence the staff members who are mentors of the teams are requested to guide the students in presenting their ideas for Internal Hackathon.

S. Madhvananthi 9/3/22
ED Cell Coordinator

[S. MADHVANANTHI]

J. W. 9/3/22
Head of the Department



Government College of Technology, Coimbatore-13

Department of Industrial Biotechnology

10.03.2022

The following students attended the Internal Hackathon-SIH 2022 organized by department of Industrial Biotechnology on 10/03/2022. They may be provided **ON DUTY** for the forenoon session of 10/03/2022.

TEAM NO.	TEAM LEADER	TEAM MEMBERS	REG.NO
1	Murugan R	Deeksha vasudevann	1919113
		Mukesh K	1919141
		Mohammed Aqib Nishd M	1917132
		Mathana Vetrivel P	1919173
		Harithra samyuktha Raj B	1919124
2	Velmurugan	Subash P	1919188
		Sachin kumar P	1919170
		Dharani dharan S	1919L03
		Sugavanesh C	1919193
3	Jennifer T C	Dinesh M	1919177
		Naveen P	1919146
		Harshavardhanan	1919125
		Goutham kousik S G	1919121
		Amrish	1919102
4	Harshitha devi K	Dhanalakshmi S	1919115
		Naveen kumar S	2012163
		Narayana manikandan B	1919144
		Praveen kumar R	2012174
		Yeswanth venkat balaji	2017141
5	Kathickeyan R	Makshana J	2019138
		Gokulnath S	2019114
		Kirithika chezhian	20219132

		Akilesh P	2019104
6	Narendran M	Manoj kannan R S	2019139
		Deepika devi	2019110
		Guru backiyam S	2019117
		Sangeetha S	2019182
		Dinesh M H	2013302
7	Roshini.M	Roshna Parveen G	2019178
		Poompavai R P	2019169
		Chandrasekar S M	2014104
		Naveen	1912162
		Sivasankaran	1917145

S. *[Signature]*
10/3/22
EDC coordinator/IBT

J. *[Signature]*
10/3/22
HOD/IBT

SMART INDIA HACKATHON 2022

Med Tech / Biotech / Health Tech

Problem statements in software :

1. Hosting a blockchain code on to a cloud network in order to create a prototype app in the Healthcare sector.

Organization: White Hour Solutions

2. Mobile application for Diet recall

Organization: Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa- Rigpa and Homoeopathy (AYUSH).

3. Virtual reality-based solution for training medical students

Organization: Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa-Rigpa and Homoeopathy (AYUSH).

4. App for Ayush Services Availability

Organization: Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa-Rigpa and Homoeopathy (AYUSH).

5. App for registration of Persons with Disabilities under ADIP scheme

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

6. Designing an app for screening the possible mental health issues in adolescents and PwDs.

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

7. A simplified app for assessment of reading and writing difficulties in persons with Specific Learning Disabilities.

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

8. Fall Detection and Alerts in hearing aids for deaf and hearing impairment

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

9. Difficulties in walking with white cane in surrounding environments

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

10. Software for facilitation of various Govt. schemes for persons with disabilities.

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

11. Making Interactive Interface and adding functionality in the existing application of ADIP Cochlear Implant Program application by Ministry of Social Justice and Empowerment, Gol.

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

12. AI-enhanced OT security tool

Organization: Gas Authority of India Ltd (GAIL).

13. Identifying the Dyslexia, Dyscalculia, Dysgraphia, Dyspraxia, Autism or ADHD in school going children.

Organization: Ministry of Electronics and Information Technology (MEITY).

14. To develop a system Electronically detecting occupancy of beds in Hospitals

Organization: Government of Rajasthan

15. To develop a website for systematic farming for farmers in local languages.

Organization: Government of Uttarakhand

16. To develop software to identify famous local things at particular villages.

Organization: Government of Uttarakhand

17. Temperature sensitive / programmable stickers for medicines and other temperature sensitive products

Organization: Department of Science & Technology (DoST), Ministry of Science and Technology.

18. "To automate and compute the detection of possible vulnerability to Depression before its onset"

Organization: National Institute for Empowerment of Persons with Multiple Disabilities (NIEPMD), Ministry of Social Justice & Empowerment.

19. Develop Solution/Application to regulate Private health care sector in India from exploiting people during medical emergencies and pandemic situations.

Organization: Defence Research and Development Organisation (DRDO), Ministry of Defence.

20. Build an application that can calculate SpO₂, Blood Pressure, Stress or any other possible body vitals using a Smartphone. Applications that can help do screening for

any conditions for people to take a decision to do a Dr consultation are also welcome.

Organization: Bajaj Finserv Health

21. Gamification for Awareness and Coverage Need for comprehensive Health Insurance that covers OPD and Lab

Organization: Bajaj Finserv Health

Problem statements in hardware :

1. Portable decoction of (Kashaya) Making Machine

Organization: Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa-Rigpa and Homoeopathy (AYUSH).

2. Smart Watch with vital records and lifestyle recommendations with mobile application

Organization: Ministry of Ayurveda, Yoga, Naturopathy, Unani, Siddha, Sowa-Rigpa and Homoeopathy (AYUSH).

3. IoT based solution for recording and storing metrics of normal and orthotic leg for analysis by Orthotist

Organization: Department of Empowerment of Persons with Disabilities (Divyangjan), Ministry of Social Justice and Empowerment

4. Using depth sensors or computer vision in prosthetic lower extremity exoskeleton appliance to alert or adjust gait.

Organization: Department of Empowerment of Persons with Disabilities (Divyangjan) , Ministry of Social Justice and Empowerment

5. Smart knee actuator cushion using pressure sensitive material

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

6. Development of Software for AAC for persons with different disabilities

Organization: Department of Empowerment of Persons with Disabilities(Divyangjan) , Ministry of Social Justice and Empowerment

7. Suggest an effective way for tackling the issue of improper disposal of personal COVID protection equipment which leads to an additional strain on the city authorities who were already grappling with single use plastic menace.

Organization: Ministry of Housing and Urban Affairs

8. To develop economic waste management system for each village/city.

Organization: AICTE, MIC-Student Innovation

9. To develop economic waste management system for each village/city.

Organization: Government of Uttarakhand

10. To develop automatic irrigation system by use of waste water for small irrigation field.

Organization: Government of Uttarakhand

11. Knee support for elderly for transferring body weight to shoe

Organization: Department of Science & Technology (DoST), Ministry of Science and Technology.

12. Non-invasive Glucometer

Organization: Department of Science & Technology (DoST), Ministry of Science and Technology.

13. Development of Technology for manufacturing of mind control BIONIC hand with a sense of touch

Organization: Ministry of Micro, Small & Medium Enterprises (MSME).

14. Uncontrolled growth of water hyacinth in lakes.

Organization: Ministry of Micro, Small & Medium Enterprises (MSME).

15. Disposal/Recycle of Covid-19 related items such as Mask, Sanitizer, face cover etc.

Organization: Ministry of Micro, Small & Medium Enterprises (MSME).



Government College of Technology, Coimbatore
Department of Industrial Biotechnology
Smart India Hackathon 2022
Internal Hackathon - Evaluation Sheet

TEAM NO.	TEAM NAME	PROB. STATEMENT	PS. NO	DOMAIN	TEAM LEADER	TEAM MEMBERS	Reg no	Novelty of ideas (30)	Clarity of idea (20)	Practicability (20)	Sustainability & Scale of impact (15)	User experience & Potential for future work progress (15)	Total (100)
1	Symbol	AI based chatbot to answer FAQs	DR702	Smart education	Murugan R	Deeksha vasudevamm Mukesh K Mohammed Aqib Nisid M Mathana Veerivel P Haritha sanjuktha Raj B	1919113 1919141 1917132 1919173 1919124	20	15	10	8	9	62
2	Dmk	Uncontrolled growth of water hyacinth	RK1125	MSME	Venunugan	Subash P Sachin kumar P Dharani dharan S Sugavanesh C	1919188 1919170 1919103 1919193	12	10	8	8	8	46
3	Hexagram	Develop an innovative solution to conversion of excess milk to usable product	DV1187	Food tech	Jennifer T C	Dinesh M Naveen P Harshavardhanan Goutham kousik S G Amrith	1919177 1919146 1919125 1919121 1919102	22	15	12	10	10	69
4	Metaverse	Non invasive glucometer	DA1064	Med tech /biotech	Harshitha devi K	Dhanalakshmi S Naveen kumar S Narayana manikandan B Praveen kumar R Yeswanth venkat balaji	1919115 2012163 1919144 2012174 2017141	22	16	16	12	10	76
5	Biocontrollers	Uncontrolled growth of water hyacinth	RK1125	MSME	Kathirkeyan R	Malakshana J Gokulnath S Kirithika chezhian Aaklesh P	2019138 2019114 20219132 2019104	8	8	8	7	7	38

6	Simplifiers	To develop automatic irrigation system by use of waste water for small irrigation field	AU1058	Med tech /biotech	Narandran M	Manoj kannan R S Deepika devi Guru baakyam S Roshna Parveen G Roshini M	2019139 2019110 2019117 2019178	15	10	10	8	8	51
7	Hexa HEX	Develop an innovative solution to conversion of excess milk to usable product	DV1187	Food tech	Roshini M	Roshna Parveen G Poornapavai R P Sudhir M P Narandran M Pavishna D	2019178 2019169 2019194 2019161 2019165	25	20	15	10	10	80

S. M. ADITHYAN
 10/3/22
 ED Cell Coordinator
 Department of Industrial Biotechnology
 Government College of Technology
 Coimbatore



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Department of Industrial Biotechnology
Smart India Hackathon 2022
Internal Hackathon - Evaluation Sheet

TEAM NO.	TEAM NAME	PROB. STATEMENT	PS. NO.	DOMAIN	TEAM LEADER	TEAM MEMBERS	REG. NO.	Novelty of idea (30)	Clarity of idea (20)	Practicability (20)	Sustainability & Scale of impact (15)	User experience & Potential for future work progress (15)	Total (100)
1	Symbot	AI based chatbot to answer FAQs	DR702	Smart education	Murugan R	Deekshita vasudevann Mukesh K Mohammed Aqib Nisid M Mathana Vetrivel P Harithra samyuktha Raj B	1919113 1919141 1917132 1919173 1919124	5	10	15	5	5	40
2	Drink	Uncontrolled growth of water hyacinth	RK1125	MSME	Velmurugan	Subash P Sachin Kumar P Dharani dharan S Sugavanesh C	1919188 1919170 1919103 1919193	10	5	15	5	5	40
3	Hexagram	Develop an innovative solution to conversion of excess milk to usable product	DV1187	Food tech	Jennifer T C	Dinesh M Naveen P Harshavardhanan Gouthan konisk S G Amrsh	1919177 1919146 1919125 1919121 1919102	15	5	15	10	10	55
4	Metaverse	Non invasive glucometer	DA1064	Med tech /biotech	Harshitha devi K	Dhanalakshmi S Naveen kumar S Narayana manikandan B Praveen Kumar R Yeswanth venkat balaji	1919115 2012163 1919144 2012174 2017141	25	15	15	10	10	75
5	Biocontrollers	Uncontrolled growth of water hyacinth	RK1125	MSME	Kathickeyan R	Makshana J Gokulnath S Kirthika chezhian Akllesh P	2019138 2019114 20219132 2019104	5	10	15	5	5	40

6	Simplifiers	To develop automatic irrigation system by use of waste water for small irrigation field	AU1058	Medi tech /biotech	Narendran M	Manoj kannan R S Deepika devi Guru backiyam S Roshna Parveen G Roshni, M	2019139 2019110 2019117 2019178	20 25	10	15	10	10	65
7	Hexa HEX	Develop an innovative solution to conversion of excess milk to usable product	DV1187	Food tech	Roshni, M	Roshna Parveen G Poornavai R P Sudhir M P Narendran M Pavishina D	2019178 2019169 2019194 2019161 2019165	25	15	15	10	15	80

A. N. W. 10/9/22
 Jury Member 02
 Dr. Aayyu Mahesh
 Director
 AMI Bioscience, Coimbatore



Government College of Technology, Coimbatore
Department of Industrial Biotechnology
Smart India Hackathon 2022
Internal Hackathon - Evaluation Sheet

TEAM NO.	TEAM NAME	PROB. STATEMENT	PS. NO	DOMAIN	TEAM LEADER	TEAM MEMBERS	REG. NO	Novelty of Idea (30)	Clarity of idea (20)	Practicability (20)	Sustainability & Scale of impact (15)	User experience & Potential for future work progress (15)	Total (100)
1	Symbot	AI based chatbot to answer FA	DR 702	Smart education	Murugan R	Deeksha vasudevann Mukesh K Mohammed Aqib Nisid M Mathana Vetrivel P Harithra samyuktia Raji B	1919113 1919141 1917132 1919173 1919124	10	12	15	12	10	59
2	Dmk	Uncontrolled growth of water hyacinth	RK1125	MSME	Velmurugan	Subash P Sachin kumar P Dharani dharan S Sugavanesh C	1919188 1919170 1919103 1919193	10	8	8	8	8	42
3	Hexagram	Develop an innovative solution to conversion of excess milk to usable product	DV1187	Food tech	Jennifer T C	Dinesh M Naveen P Harshavardhanan Goutham kousik S G Amritha	1919177 1919146 1919125 1919121 1919102	12	12	10	12	10	56
4	Metaverse	Non invasive glucometer	DA1064	Med tech /biotech	Harshitha devi K	Dhanalakshmi S Naveen kumar S Naryana manikandan B Praveen kumar R Yeswanth venkat balaji	1919115 2012163 1919144 2012174 2017141	17	10	12	12	12	63
5	Biocontrollers	Uncontrolled growth of water hyacinth	RK1125	MSME	Kallickeyan R	Makshana J Gokulnath S Krinika chezhian Akilesh P	2019138 2019114 20219132 2019104	8	8	8	8	8	40

6	Simplifiers	To develop automatic irrigation system by use of waste water for small irrigation field	AU1058	Med tech /biotech	Narendran M	Manoj kannan R S Deepika devi Guru backiyam S Roshna Parveen G Roshni, M	2019139 2019110 2019117 2019178	12	12	13	12	12	12	61
7	Hexa HEX	Develop an innovative solution to conversion of excess milk to usable product	DV1187	Food tech	Roshni, M	Roshna Parveen G Poompavai R P Sudhir M P Narendran M Pavishna D	2019178 2019169 2019194 2019161 2019165	25	20	20	15	13	23	

J. Jeyanthi
 10/3/22
 Jury Member 01
 Dr. J. Jeyanthi
 Professor & Head
 Department of Industrial Biotechnology
 Government College of Technology
 Coimbatore



GOVERNMENT COLLEGE OF TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

Thadagam Road, Coimbatore - 641 013.

Phone : 0422 - 2432221

Telefax : 0422 - 2455230

E-mail : gctcbe@gct.ac.in

Date :

12.04.2022

Sub: Smart India Hackathon 2022–Nomination

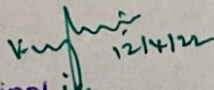
I am pleased to nominate the below team from our college to participate in Smart India Hackathon 2022. AICTE Application No / UGC Registration /AISHE code number for our college is **1-3512438598**.

Team:SYMBIOTIC_BOT

	Name	Gender (M/F)	Email ID	Mobile No.	Stream	Year
Team Leader	Murugan R	M	muru.1919142@gct.ac.in	7550130016	IBT	III
Team Member	Mohamed Aqib Nishad M	M	moha.1917132@gct.ac.in	9087070792	CSE	III
Team Member	Deeksha Vasudevan	F	deek.1919113@gct.ac.in	8903840013	IBT	III
Team Member	HarithraSumyutharaj B	F	hari.1919124@gct.ac.in	6379807463	IBT	III
Team Member	Mukesh K	M	muke.1919141@gct.ac.in	6382701157	IBT	III
Team Member	Mathana Vetrivel P	M	math.1919137@gct.ac.in	9087439112	IBT	III

Sincerely,

Dr.V.Gopalakrishnan

The Principal 
Principal
12/4/22

Government College of Technology
Coimbatore -641 013.





GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE-13

Dr.V. Gopalakrishnan, Ph.D.,
Vice Principal &
Professor in Electrical Engineering

Phone: 91422-2432221
Email: gopalakrishnan.v@gct.ac.in

Date : 18.03.2022.

Sub: Smart India Hackathon 2022 – Nomination

I am pleased to nominated the below team form our college to participate in Smart India Hackathon 2022. AICTE Application No/ UGC Registration / AISHE Code No for our College is 1-3512438598

Team : Metaverse

	Name	Gender (M/F)	Email id	Mobile No	Stream	Year
Team Leader	HARSHITHA DEVI K	F	H ars.1919126@gct.ac.in	9791978513	Industrial Biotechnology	III
Team Member	NARAYANAMANIKANDAN .B	M	nara.1919144@gct.ac.in	9360457442	Industrial Biotechnology	III
Team Member	DHANALAKSHMI S	F	dhan.1919115@gct.ac.in	7373692305	Industrial Biotechnology	III
Team Member	PRAVEEN KUMAR R	M	prav.20fme068@gct.ac.in	9865747659	Mechanical Engineering	II
Team Member	NAVEEN KUMAR S	M	nave.20firme055@gct.ac.in	9360195843	Mechanical Engineering	II
Team Member	YESVANTH BALAJI KP VENKETA	M	yes.20fcs40@gct.ac.in	8754265263	Computer Science Engineering	II

Sincerely

Dr. V. Gopalakrishnan

Principal i/c

Government College of Technology
Coimbatore -641 013.



GOVERNMENT COLLEGE OF TECHNOLOGY

(An Autonomous Institution Affiliated to Anna University, Chennai)

Thadagam Road, Coimbatore - 641 013.

Phone : 0422 - 2432221

Telefax : 0422 - 2455230

E-mail : gctcbe@gct.ac.in

Date: 15.03.2022

Date:15/03/2022

Sub: Smart India Hackathon 2022–Nomination

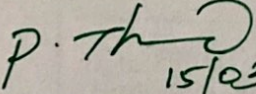
I am pleased to nominate the below team from our college to participate in Smart India Hackathon 2022. AICTE Application No / UGC Registration / AISHE code No for our college is **1-3512438598**.

Team:Hexa Hex

	Name	Gender (M/F)	Emailid	Mobile no.	Stream	Year
TeamLeader	Roshini M	F	rosh.20fbt63@gct.ac.in	7373184848	Industrial Biotechnology	II
TeamMember	RoshnaParveen G	F	rosh.20fbt64@gct.ac.in	9566981480	Industrial Biotechnology	II
TeamMember	Narendran M	M	nare.20fbt46@gct.ac.in	8056748606	Industrial Biotechnology	II
TeamMember	Sudhir M P	M	sudh.20fbt76@gct.ac.in	8778811996	Industrial Biotechnology	II
TeamMember	Poompavai R P	F	poom.20fbt55@gct.ac.in	7826815602	Industrial Biotechnology	II
TeamMember	Pavishna D	F	pavi.20fbt@gct.ac.in	9360689709	Industrial Biotechnology	II

Sincerely,

Dr.P.Thamarai


15/03/2022
The Principal

Principal
Government College of Technology
Coimbatore -641 013.



SMART INDIA HACKATHON-2022

DEPARTMENT OF INDUSTRIAL BIOTECHNOLOGY

INTERNAL HACKATHON-2022

On

10-03-2022

TA/DA Bill							
1	Name (in block letters)		Dr. Ayyayu Mahesh				
2	Designation		Director				
3	Department		AMI Bioscience, coimbatore.				
4	Pay Scale & Basic pay		—				
5	Purpose of Journey / Halt		Jury for Internal Hackathon-2022				
6	Date(s) of Lecture by Expert		Internal Hackathon - SIH 2022				
S No	Date & Time	Departure From	Date & Time	Arrival at	Mode of Journey & Ticket No	Distance (KM)	Fare Paid (Rs)
1.	10/3/22 8.00 AM	PEELAMEDU	10/3/22 9.00 AM	GCT	Car	12	144
TOTAL (A)							144
HONORARIUM							
Title	Internal Hackathon - SIH 2022						600/hr
Duration	3 hrs						600x3
TOTAL (B)							1800
GRAND TOTAL (A+B)							1944

Particulars	Amount in Words	Amount (Rs)
Grand Total	One thousand nine hundred and forty four	1944
Less: Advance Drawn	-	-
Total Amount Claimed		

CERTIFICATE

- a. The particulars furnished above are true and if the claim amount in this bill is found to be excess at a later date, I agree to repay the excess amount. No advance amount was drawn

Date: 11/3/22

A. M.
Signature of Claimant

BANK DETAILS

A/C Holder Name: A. MAESH	Bank Name: SBI
A/C No: 31416397925	Branch Name & Code: Kalapatti, 021798
IFSC Code: SBIN0021798	PAN Number: BPZPM9106E
Mobile No: 9843874873	Residential Address: 28B, Rajalakshmi Nagar, Munir Kalipalayam Road, Chinnambur - 4

PAYMENT VOUCHER

Date: _____

Debitable to _____ accepted
and passed for payment for Rs. _____ Rupees _____

S. neel
11/3/22
EDC Coordinator

J. J.
11/3/22
HEAD OF THE DEPARTMENT

BURSA

PRINCIPAL



सत्यमेव जयते

Government of Tamil Nadu Certificate of Registration



Reg. No.

TN07AM9307

Date of Reg.

17-07-2007

Chassis No.

MA3EBKA1S00116726

Reg. Valid Till

16-07-2022

Engine No.

G13BBN376711

Owner

Sr. No. **03**

Owner Name

A MAHESH

Son/Daughter/Wife of

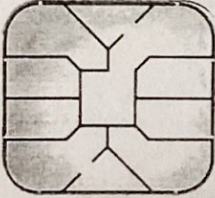
AYYAVU

Address

28/B RAJALAKSHMI NAGAR

MASAKALIPALAYAM ROAD

Coimbatore TN 641101



Fuel Used
PETROL



TO

TNN67004482

Vehicle Class

Motor Car



Reg. No.

TN07AM9307

Maker's Name

MARUTI SUZUKI INDIA LTD

Month & Yr. of Mfg.

06/2007

Model Name

VERSA DX2 BS II

Wheel Base (mm)

002360

Colour

P SILVER

Cubic Capacity (cc)

001300

Body Type

SALOON

No. of Cylinders

04

Seating/Standing Capacity

008 / 00

Laden/

Unladen Weight (Kgs)

000000 / 000860

Tax Paid Upto

LIFE TIME

Financer Name

K.A.S

Signature of Issuing Authority

TN66 CBE CENTRAL RTO

Bon Ton Softwares

Form 23 A

Photos of GCT Internal Hackathon 2022

Team :6



TEAM:5



TEAM:4



TEAM:3



TEAM:2



TEAM:1



TEAM:7



Judges photo:

