



Event Report

- 1. Name of Event:** National Technology Day – Model Mela
- 2. Nature of the Event:** Competition
- 3. Date:** 11th May, 2022
- 4. Time:** 03:00 to 05:00 P.M.
- 5. Venue:** Foyer, School of Technology, GSFC University, Vadodara
- 6. Organized by:** Chemical Engg. Dept. of GSFC University, AIChE GSFCU SC, GUITAR Council and IIC, MoE, GoI
- 7. Number of Participants:** 149, Annexure – 1
- 8. Major discussions in the event:**

GSFC University and AIChEs GSFC University Student Chapter organized “Model Mela” on 11th May, 2022 to celebrate National Technology Day. A total of 30 teams, 149 students of 2nd and 3rd Year Chemical Engineering, School of Technology, GSFC University have prepared 30 models. Dr. Sanjukta Bose Goswami, GUITAR Council Startup Coordinator has coordinated the “Model Mela” event successfully.

Research shows that competition encourages students to work harder, study further and in the process, boosts their confidence. Students have prepared projects based on Advanced Separation Techniques (AST) and Process Technology (PT) with reference to the new process used for separation or production in Chemical Industries.

All the students participated with great excitement and enthusiasm. The students learn theoretical concepts, process flow diagrams in the classroom and prepared mock and some working models resulting enhance their understanding ability of the courses. Often this type of competition encourages students to do something out of the box and resulting in an Entrepreneurial/Startups Journey.



Mr. Ravi Erande, VP (P-F & I) and Mr. Kaushik Virparia, In-charge Caprolactum-II Plant from GSFC Ltd. invited to motivate students. Both the Industry experts have visited students' projects and interacted with students. They congratulate GSFC University management for organizing and providing opportunities for the students to demonstrate their skills. Dr. Saurabh Shah, Dean, SoT, GSFCU and Dr. Nishit Dr. Nishith Parikh, Associate Dean, SoT also visited Model Mela and asked students to prepare two minutes video pitch explaining their projects.

2nd Year student's projects were evaluated by Dr. Saroj Shekhawat, Ms. Trusha Chauhan and Mr. Dipen Chauhan and 3rd Year student's projects were evaluated by Dr. Sanjuktand Bose Goswami, Ms. Priyanka Pandya and Mr. Kirankumar Parmar.

Dr. Nikhil Zaveri, Provost, GSFC University announced the winners on 19th May, 2022 and awarded a cash prize of a total of Rs. 3,000/- to four teams. He said this is the oldest method of teaching pedagogy where students prepare models to exhibit their learning skills. He congratulates all teams and suggested to prepare maximum working models for next year's exhibition.

9. Learning outcomes of the event:

Students learned how to demonstrate theoretical concepts, process flow and technology by making non-working/working models.

10. How will it be useful for Students/Schools/University:

Students learning abilities will be enhanced. Group Projects help students to demonstrate problem-solving skills, teamwork skills, plan a strategy, manage time & resources, set & meet deadlines, communicate effectively and resolve disagreements or conflicts if they arise.

11. Feedback:

Students enjoyed the model-making competition and suggested organizing a similar kind of event for Engineering, Science and Management students every year.



12. Photos:















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Participant Details:

Advanced Separation Techniques (AST)				
Sr no.	Enrollment No.	Name	Techniques	Application
Group 1	19BT01004	Aum Patel	Microfiltration	Beer Filtration
	19BT01022	Atharva Patel		
	19BT01025	Abhishek Padaria		
	19BT01028	Deep Patel		
	19BT01068	Varun Vichare		
Group 2	19BT01026	Pansuriya Rohan	Ultrafiltration	Clarification of orange juice (Beverage Industry Use)
	19BT01030	Patel Dhvani		
	19BT01061	Shiroya Deep		
	20BT01D072	Baldha Kishan		
	20BT01D079	Sheth Jay		
Group 3	19bt01002	Agrawal Devarsh	Reverse Osmosis	Desalination of Water
	19bt01017	Dhairiyashil Jadhav		
	19bt01027	Ananya Patel		
	19bt01036	Madhav Patel		
	19bt01037	Patel Meet Baldevbhai		
Group 4	19BT01035	Kunj Patel	Membrane Gas separation	Purification of biogas or biogas upgrading system
	19BT01038	Meet Patel		
	19BT01042	Tirth Patel		
	19BT01059	Nitya Shah		
	19BT01021	Kush Patel		
Group 5	19BT01052	Rohan Roy	Pervaporation	Production of less alcoholic beverage by pervaporation
	19BT01043	Vaibhav Patel		
	19BT01060	Yash Shah		
	19BT01067	Margesh Varia		
	19BT01055	Bhavya Shah		
Group 6	19BT01011	Aaditya Dalwadi	Dialysis	Hemodialysis (Purification of blood)
	19BT01015	Jayvirsinh Gohil		
	19BT01018	Vatsal Jhaveri		
	19BT01001	Priyesh Adhyaru		
	19BT01010	Nimesh Chauhan		
Group 7	19BT01023	Malek Anish	Electrodialysis	Production of



	19BT01029	Patel Deven		drinking water from brackish water
	19BT01032	Patel Harshil K		
	19BT01034	Patel Jay		
	19BT01057	Shah Nilay		
Group 8	19BT01008	Mohamadafnan Buddha	Membrane Reactor	Membrane reactor for hydrogen production
	19BT01053	Mohammadali Saiyed		
	20BT01D075	Kunj Patel		
	20BT01D080	Smit Patel		
Group 9	19BT01012	Devarshi Kothwala	Supercritical Fluids Extraction	Supercritical fluid extraction on the quality of almond oils
	19BT01013	Dhruv Upadhyay		
	19BT01016	Himanshu Tulaskar		
	19BT01044	Veera Patel		
	19BT01069	Vijay Machhi		
Group 10	19BT01048	Mihir Prajapati	Microfiltration	Microfiltration in dairy Industry
	19BT01051	Dhruvik Rana		
	19BT01054	Dhruv Saraiya		
	19BT01063	Kirtan Solanki		
	19BT01065	Shivam Soni		
Group 11	20BT01D071	Krushang Gandhi	Ultrafiltration	Whey protein production
	20BT01D073	Hetkumar Panchal		
	20BT01D074	Arpan Patel		
	20BT01D076	Prajeskumar Patel		
	20BT01D077	Mayank Kumar Raval		
Group 12	19BT01005	Harshvardhan Badgujar	Reverse Osmosis	Demineralization of Water Using Reverse Osmosis
	19BT01040	Sheel Patel		
	19BT01050	Harsh Rajput		
	19BT01056	Manav Shah		
	19BT01058	Nimit Shah		
Group 13	19BT01006	Tejas Balss	Membrane Gas separation	Separation of Nitrogen from Air
	19BT01014	Priya Gajjar		
	19BT01024	Chirag Naik		
	19BT01064	Rahil Soni		
Group 14	19BT01047	Himalay Prajapati	Pervaporation	Removal of organic compound from water
	19BT01062	Dharmik Shiyaniya		
	19BT01003	Ashutosh Das		
	20BT01D070	Chopda Rahul		
	19BT01078	Rohit Akshaykumar		



Group 15	19BT01007	Bhalodiya Keval	Dialysis	De Acidification of fruit juice
	19BT01045	Patel Yash		
	19BT01020	Kundariya Yash		
	19BT01031	Patel Harsh		
	19BT01033	Patel Harshil		
Group 16	19BT01041	Patel Siddharth	Membrane Reactor	Simultaneous Production of Hydrogen and Synthesis Gas .
	19BT01019	Kukadiya Jaydeep		
	19BT01046	Patil Rahil		
	19BT01049	Raj Ritul		
	19BT01066	Vanikar Niket		

Process Technology (PT)			
Group No.	Team Member name	Enrollment number	Topics
1	Jay Patel	20BT01020	Production of Soda Ash by solvay process
	Ayush Nasit	20BT01031	
	Vansh Kadia	20BT01022	
	Parth Kanani	21BT01D066	
	Umang Bhalsod	20BT01008	
2	Soham Dholakia	20BT01015	Production of Hydrgen
	Samarth Desai	20BT01014	
	Khushali Desai	20BT01013	
	Radhe Patel	20BT01042	
	Abhi Godhani	20BT01019	
3	Parth Rola	20BT01050	production of CO2 by combustion
	Vinit Chopala	20BT01012	
	Rohan Vhanesa	20BT01057	
	Pratik Ambaliya	20BT01004	
	Pratik Donga	20BT01018	
4	Dhirendra Mahankuda	20BT01026	Production of Ammonia
	Prathamesh Kapshikar	20BT01023	
	Mahesh Rathod	20BT01027	
	Archit Trivedi	20BT01055	
	Dev Pancholi	20BT01035	
5	Rohan Kothari	20BT01024	Production of Sugar from sugar cane
	Prathmesh Dharmadhikari	20BT01046	
	Dhyey Gandhi	20BT01016	
	Rishikesh Patil	20BT01049	
	Het Parekh	20BT01036	
6	Patel Abhishek	20BT01037	Production of Urea
	Jaitra Bhatt	20BT01010	
	Mayavanshi Vaibhav	20BT01029	
	Shreyansh Shah	20BT01051	
	Raj Modi	20BT01030	
7	Prachi Dobariya	20BT01017	Production of H2SO4 by DCDA process
	Rutvi Patel	20BT01044	



	Prajapati Dhruvil Sanjaykumar	20BT01045	
	Sujal Rana	20BT01048	
	Divyarajsinh Solanki	20BT01053	
	Yash Maniyar	20BT01059	
8	Dhokiya Mihir	21BT01D064	Production of HCl
	Patel Utpal	21BT01D071	
	Tai Azim	21BT01D073	
	Patel Vatsal	21BT01D076	
	Parth Gandhi	21BT01D065	
9	Padhiyar Vivek	20BT01033	Production of CO ₂ by fermentation
	Panchal Pruthvik	20BT01034	
	Patel Kirtan	20BT01038	
	Patel Manav	20BT01039	
	Siyani Dhruval	20BT01052	
10	Dhruva Adhvaryu	20BT01001	Production of 95% ethanol
	Anusha Zargar	20BT01005	
	Nikhil More	20BT01032	
	Om Patel	20BT01040	
	Kishan Tank	20BT01054	
11	Patel Aum	20BT01006	Production of pulp
	Vaidya Pratham	20BT01056	
	Bhatt Dhruv	21BT01D063	
	Patel Kushal	21BT01D068	
	Hirpara Dhaval	21BT01D075	
12	Preksha Agrawal	20BT01003	Production of cement
	Zalak Patel	20BT01060	
	Ruchit Patel	20BT01043	
	Khushi Rana	20BT01047	
	Shakti Gohil	20BT01061	
13	Avinash Pandey	20BT01007	Recovery from black liquor
	Ashish Bharti	20BT01009	
	Dhiraj Yadav	20BT01058	
	Abhishek Yadav	20BT01062	
	Pujankumar P. Parmar	21BT01D067	
14	Jayket Parmar	20BT01021	Production of any fertilizer
	Parth Patel	20BT01041	
	Kaushal Chauhan	20BT01011	
	Savan Patel	21BT01D070	
	Meet Patel	21BT01D069	