

**VEL TECH HIGH TECH DR. RANGARAJAN DR. SAKUNTHALA ENGINEERING  
COLLEGE**

**DEPARTMENT OF BIOTECHNOLOGY**

**NEWSLETTER OCT TO DEC 2021**

**GUEST LECTURES**

**Lecture No 1: Role of Institution's Innovation Council at Higher Education Institute**

Date: 11<sup>th</sup> November 2021

Resource Person: Dr. M. Gopinath, Associate Dean, Institution's Innovative Council, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai

On account of Education day, The Department of Biotechnology conducted an online orientation on 11<sup>th</sup> November 2021 on the topic "Role of Institution's Innovation Council at Higher Education Institute" by Dr. M. Gopinath, Vel Tech High Tech Dr. Rangarajan Dr. Sakunthala Engineering College, Chennai

He addressed the gathering by briefing the importance of Institution's Innovation Council at Higher Education Institute and how IIC plays a role in bringing the innovative project to the next level made by the students. Also the opportunity of IIC in molding the students as an entrepreneur.

**Lecture No 2: Intellectual Property Rights (IPR) – Patent & Designs Process**

Date: 12<sup>th</sup> November 2021

Resource Person: Mrs. Pooja Vishal Maulikar, Examiner of Patents & Designs, Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur

The Department of Biotechnology conducted a National webinar on 12<sup>th</sup> November 2021 on the topic "Intellectual Property Rights (IPR) – Patent & Designs Process" by Mrs. Pooja Vishal Maulikar, Examiner of Patents & Designs, Rajiv Gandhi National Institute of Intellectual Property Management, Nagpur

She started the session by explaining about the Intellectual Property Rights and its role. She also explained about how the patent processing has been carried out and also encouraged the students to file many patents by briefing its importance.

**Lecture No 3: Entrepreneurship and Innovation as a career opportunity**

Date: 13<sup>th</sup> November 2021

Resource Person: Prof. Mr. Gautam Huidrom, Assistant Professor/Department of Management Coordinator/Centre for Entrepreneurship, Rajiv Gandhi University, Arunachal Pradesh.

On account of Innovation Day, The Department of Biotechnology in association with Institution's Innovation Council conducted a National webinar on 13<sup>th</sup> November 2021 on the topic "Entrepreneurship and Innovation as a career opportunity" by Prof. Mr. Gautam Huidrom, Assistant Professor, Department of Management/ Coordinator, Centre for Entrepreneurship, Rajiv Gandhi University, Arunachal Pradesh.

He started the session by giving a brief introduction about entrepreneurship and how to choose entrepreneurship as a career for future. Also explained how innovation and innovative ideas plays important role in building entrepreneurship journey.

#### **Lecture No 4: Online motivational session by "Successful Start-Up Founder"**

Date: 06<sup>th</sup> December 2021

Resource Person: Mr. Jaikanth Chinnathambi Founder and CEO-Infinite Engineers; Co-Founder - Infinite Innovations; Co-Founder - Oscar Daisy; Chennai

The Department of Biotechnology in association with Institution's Innovation Council conducted an Online motivational session by "Successful Start-Up Founder" on 06<sup>th</sup> December 2021 by Mr. Jaikanth Chinnathambi Founder and CEO-Infinite Engineers; Co-Founder - Infinite Innovations; Co-Founder - Oscar Daisy; Chennai

He started the session by giving his brief introduction and how he started his career as an entrepreneur. He motivated students by giving very useful guidelines in the entrepreneur journey and also briefed about the ups and downs in the entrepreneurship and shared his valuable experiences in his career.

### **INDUSTRIAL VISITS**

#### **Visit No 1: OFERR Pvt Ltd., Chennai**

Date of Visit: 13<sup>th</sup> October 2021

The Department of Biotechnology arranged an Industrial Visit on 13<sup>th</sup> October 2021 to OFERR Pvt. Ltd, Chennai for the III Semester Students. Faculties Ms. Hanisha. R, Assistant Professor and Ms. K. Abinaya, Assistant Professor, Department of Biotechnology accompanied the students to the visit.

This industrial visit was arranged for the students to fill the curriculum gap in biotechnology based entrepreneurship. The knowledge and expertise of the techniques performed in the company will benefit our students to understand the available market for spirulina commercially.



## **Visit No 2: MODERN BAKERS PVT. LTD, Chennai**

Date of Visit: 25<sup>th</sup> November 2021

The Department of Biotechnology arranged an Industrial Visit on 25<sup>th</sup> November 2021 to Modern Bakers Pvt. Ltd., Chennai for the V Semester Students. Faculties Ms. M. Udayamathi, Assistant Professor and Ms. A. Abinaya, Assistant Professor, Department of Biotechnology accompanied the students to the visit.

In the fifth Semester students having papers such as Principles of Food Processing and Mass





Operations. This industrial visit made the students to explore with the various steps involved in the biscuits manufacturing and also they learnt about the machines and their unit operations in the manufacturing of biscuits.

## EVENTS CONDUCTED BY THE DEPARTMENT

### MoU Signing Event

The Department of Biotechnology signed two MoUs on with the companies Geomarine Biotechnologies and Deepam Hospital. This MoU signing will make the better understanding between our institution and the above mentioned companies which will benefit the students in many ways including interships, guest lecture, Value added courses, Projects, etc.





## BIOTEKIONZ'21

This is a Department technical event conducted annually by the Department of Biotechnology on 3<sup>rd</sup> and 4<sup>th</sup> December 2021 which will be organized by the final year students to welcome the first years to the department. The event consisted of many technical and non-technical events where students exhibited their talent well by showing their active participation in all the events. Prizes has been distributed by our respected Principal to all the winners in the respective events.



## STUDENTS CORNER

### Student Publications

S.N O	VH NO	Name	Semester	Article Title	Journal Name	Period of Publication	Indexing
1	VH 7716, VH 7709 & VH	Akash Prabhu M.K, Kishore Kumar. G and	Passed out students	Bioactivity and invitro cytotoxicity study of	Medicinal Plants	Dec 2021	Scopus Index

	9156	Vigneshwar S		aquatic plant <i>Chara hydrophytys Reich</i>			
2	VH 8433, VH 8449	Dhanushashree. G & Reshma. P. H	Passed out students	Removal of metals using Isolated <i>Achromobacter denitrificans</i> from heavy metals contaminated soils	Research & Reviews in Biotechnology & Biosciences	Nov 2021	Refereed Journal

### Student Participations in Value Added Courses

S.NO	VH NO	Name	Semester	Workshop	Hosted by	Date and Venue
1	11662	Hitendranath N M	1	Course – Introduction to IoT	SkillUp by Simplilearn	27.12.2021
2	11651	Divya Keerthana. M	1	Course – Introduction to IoT	SkillUp by Simplilearn	27.12.2021

### Student Participation/Paper Presentations in Conferences and Seminars

S.NO	VH NO	Name	Semester	Conference /Seminar Title	Hosted by	Date and Venue	Paper Title
1	VH 9308, VH 9300	<b>Muthu Kumaran P, Archak Arjun I. G</b>	7	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	In-Silico Profiling Of Deleterious Ns-Snps In Cpb2 Gene Responsible For Cardiovascular Diseases
2	VH 10693,	<b>Rohit Kumar,</b>	3	International Conference	Vellore Institute of	03.12.2021 &	Bioplastics – An

	VH 10663	<b>Kaarthikeyan K</b>		on Trends in Chemical, Nano and Synthetic biology	Technology and the University of Wolverhampton, United Kingdom (UK)	04.12.2021	Alternate To Petro Plastics
3	VH 10665, VH 10667	<b>Sangeetha R., Sowmiya G</b>	3	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Sewage Water Treatment – Using Water Hyacinth Plant
4	VH 10666, VH 10679	<b>Muthu Selvi B., Sowmya S.1, Udaya Eswari K</b>	7 & 3	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Microbial Fuel Cell
5	VH 10682, VH 10688	<b>Aarthi Sree G., Thasleema Nasrin M.R.</b>	3	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	In-Silico Studies And Molecular Simulation Of “Mimopus Elenji” Against “Salmonella Typhi”
6	VH 10656, VH 10653	<b>Ashwin R., Kapil Kumar R.</b>	3	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United	03.12.2021 & 04.12.2021	Bioactive Study Of Rivina Andamanensis

					Kingdom (UK)		
7	VH 9922, VH 9936	<b>Rajamathangi R., Yesodhaa R.</b>	5	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Degradation Of Plastic Substances Using Genetically Modified Actinomyces Bacteria
8	VH 9886, VH 9897, VH 9912	<b>Arun Raja R., Ebine Joel S.C., Mohamed Hasan M</b>	5	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Bioactivity Study of Achyranthes aspera
9	VH 9911, VH 9912	<b>Maria Seela B.<sup>1</sup>, Neha A.</b>	5	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Bioactivity Study of Aristolochia bracteolata
10	VH 9940	<b>Anandhasayan T.</b>	5	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Enhancement of the Production of Rayon through Cupramminom Process using Bacterial Cellulose
11	VH 9902, VH 9929,	<b>Hema Madhuri V., Shamitha</b>	5	International Conference on Trends in Chemical,	Vellore Institute of Technology and the	03.12.2021 & 04.12.2021	CRISPR in Therapeutics



	VH 9930	<b>J., Sneha Nair V</b>		Nano and Synthetic biology	University of Wolverhampton, United Kingdom (UK)		
12	VH 9887, VH 9938	<b>Jones Rebacca S., Mahalakshmi T.D.</b>	5	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Vegan Shrimp – A Replacement for Traditional Animal Based Food
13	VH 9942, VH 9915	<b>Kinza Fathima K, Nivetha Shri S.</b>	5	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Extraction of Ascorbic Acid from the Rind of Pithecellobium dulce
14	VH 9303, VH 9310	<b>Ayurika Tripathy, Meghana N.V.P.</b>	7	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	CRISPR – An Advanced Tool for Genome Proof Reading
15	VH 11662, VH 11651	<b>Hitenranath N.M., Divya Keethana M., Naveen Kumar</b>	1	International Conference on Trends in Chemical, Nano and Synthetic biology	Vellore Institute of Technology and the University of Wolverhampton, United Kingdom (UK)	03.12.2021 & 04.12.2021	Bioweathering By Fungi - An Effective Recycling Geochemical Cycles Strategy

16	VH 10655, VH 10673	<b>Sarah Jency, G. Praveen Kumar</b>	3	International e-Conference on Bioengineering for Health and Environment	Sathyabama Institute of Science and Technology and MAHSA University, Malaysia	16.12.2021 & 17.12.2021	Insilico Studies and Molecular Analysis of <i>Viter nagundo</i> against Dengue
17	VH 10682, VH 10688	<b>Aarthi Sree G., Thasleema Nasrin M.R.</b>	3	International e-Conference on Bioengineering for Health and Environment	Sathyabama Institute of Science and Technology and MAHSA University, Malaysia	16.12.2021 & 17.12.2021	In-Silico Studies And Molecular Simulation Of “Mimopus Elenji” Against “Salmonella Typhi”
18	VH 10677, VH 10681	<b>Subashree, Pechiamma I</b>	3	International e-Conference on Bioengineering for Health and Environment	Sathyabama Institute of Science and Technology and MAHSA University, Malaysia	16.12.2021 & 17.12.2021	Isolation and Characterization of Crude Oil Degrading From Fungi Strains
19	VH 9898, VH 9889, VH 9888	<b>Gayathri. R, Aadharshini. S, Pavithra. V</b>	5	International e-Conference on Bioengineering for Health and Environment	Sathyabama Institute of Science and Technology and MAHSA University, Malaysia	16.12.2021 & 17.12.2021	

#### Participation in other events:

S.NO	VH NO	Name	Semester	Event	Hosted by	Date and Venue	Participated in
1	VH 9892	Amarnath. N	5	Food Day Event	SRM University	25.10.2021 & 26.10.2021	Food Quiz Competition
2	VH	Charumathi	5	Food Day	SRM	25.10.2021 &	Food Quiz

	9896	R		Event	University	26.10.2021	Competition
3	VH 9902	Hema Madhuri. V	5	Food Day Event	SRM University	25.10.2021 & 26.10.2021	New Product Development
4	VH 9941	Jai Vignesh	5	Food Day Event	SRM University	25.10.2021 & 26.10.2021	Food Quiz Competition
5	VH 9913	Mugunthan B	5	Food Day Event	SRM University	25.10.2021 & 26.10.2021	Photography
6	VH 9920	Priya Dharshini P.	5	Food Day Event	SRM University	25.10.2021 & 26.10.2021	Photography
7	VH 9922	Rajamathan ghi .R	5	Food Day Event	SRM University	25.10.2021 & 26.10.2021	Food Connections
8	VH 9929	Shamitha. J	5	Food Day Event	SRM University	25.10.2021 & 26.10.2021	New Product Development
9	VH 9936	Yesodhaa. R	5	Food Day Event	SRM University	25.10.2021 & 26.10.2021	Food Connections

### Inplant Training

S.NO	VH NO	Name	Semester	Company Name	Date Attended
1	VH9926	Sathiyar	V	Tamil Mani Poultry Farm	16.10.2021 to 18.10.2021

### Student Project Proposals

S.NO	VH NO	Name	Semester	Project Title	Guided by	Submitted to(Funding Agency)
1	VH 9301, VH 9340	Ashok Kumar. K and Dinesh Babu. K. A	7	Formulation of Nanobiopesticide from <i>Charahydrophytes</i> , <i>Gracilariaedulis</i> and <i>Cuscuta Sp.</i>	Dr. A. Sai Ramesh	TNSCST
2	VH 9303, VH 9309, VH 9310	Ayurika Tripathy, Muthuselvi. B, Meghna. N.V.P	7	Development of Microbial Fuel Cell using Exoelectrogenic Bacteria, E.Coli and Industrial Waste- An Novel Approach towards Sustainable Power Generation	Dr. A. Sai Ramesh	TNSCST

### Student Awards

Jones Rebecca. S and Mahalakshmi. T. D of 3<sup>rd</sup> year have won the third prize in the poster presentation in the International Conference on Trends in Chemical, Nano and Synthetic biology conducted by Vellore Institute of Technology on 3<sup>rd</sup> and 4<sup>th</sup> of December 2021

Muthu Kumaran P and Archak Arjun I. G of final year have won the third prize in the oral presentation in the International Conference on Trends in Chemical, Nano and Synthetic biology conducted by Vellore Institute of Technology on 3<sup>rd</sup> and 4<sup>th</sup> of December 2021

Students Muguthan. B, Priyadharshini. P and Yesodhaa. R of 3<sup>rd</sup> year have won 2<sup>nd</sup>, 3<sup>rd</sup> and 3<sup>rd</sup> prize in Food photography and Food connections in the Food day event conducted by the SRM University on 25<sup>th</sup> and 26<sup>th</sup> October 2021

## FACULTY CORNER

### Faculty Publications

S.N O	HTS NO	Name	Designation	Article Title	Journal Name	Period of Publication	Indexing
1	981	Dr. D. Yuvaraj	Professor and Dean SoBCE	Removal of metals using Isolated <i>Achromobacter denitrificans</i> from heavy metals contaminated soils	Research & Reviews in Biotechnology & Biosciences	Nov 2021	Refereed Journal
2	981	Dr. D. Yuvaraj	Professor and Dean SoBCE	Anti-methanogenic Effect of Phytochemicals on Methyl-Coenzyme M Reductase—Potential: In Silico and Molecular Docking Studies for Environmental Protection	Micromachines	Dec 2021	SCI 2.942
3	1429	Dr. M. Gopinath	Associate Professor and	Removal of metals using Isolated	Research & Reviews in Biotechnology	Nov 2021	Refereed Journal

			Associate Dean IIC	<i>Achromobacter denitrificans</i> from heavy metals contaminated soils	& Biosciences		
4	1342	Dr. R. Gnanasekaran	Assistant Professor and Head	Removal of metals using Isolated <i>Achromobacter denitrificans</i> from heavy metals contaminated soils	Research & Reviews in Biotechnology & Biosciences	Sep 2021	SCI 2.85
5	1396	Dr. A. Sai Ramesh	Associate Professor	Bioactivity and invitro cytotoxicity study of aquatic plant <i>Chara hydrophytes</i> Reich	Medicinal Plants	Dec 2021	Scopus Index
6	1396	Dr. A. Sai Ramesh	Associate Professor	Anti-methanogenic Effect of Phytochemicals on Methylophilus Thermophilus—Potential: In Silico and Molecular Docking Studies for Environmental Protection	Micromachines	Dec 2021	SCI 2.942

**Faculty Participation/Paper Presentations in Conferences and Seminars**

S.NO	HTS NO	Name	Designation	Conference/Seminar Title	Hosted by	Date and Venue	Paper Title
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1	1396	Dr. Sai Ramesh	Associate Professor	International Conference Nurturing Innovative Technological Trends in Engineering BIOScience (NITTE-BIO) - 2021	N.M.A.M. Institute of Technology- Nagpur	19th & 20th November 2021	Participated
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### Faculty Participations in FDPs and Workshops

S.NO	HTS NO	Name	Designation	FDP/Workshop	Hosted by	Date and Venue
1	1429	Dr. M. Gopinath	Associate Professor and Associate Dean IIC	Workshop on "MOLECULAR DOCKING"	Nirmala College for Women	20.12.2021 to 22.12.2021
2	1396	Dr. Sai Ramesh	Associate Professor	FDP on the theme "Inculcating Universal Human Values in Technical Education"	AICTE	25.10.2021 to 29.10.2021

The Department of Biotechnology conducted many events and arranged two industrial visit by the cooperation of the entire team of Biotech department and also by our enthusiastic students. All our students shown their active participation in various events and explored their knowledge beyond the syllabus too. Some of our students won prizes in various paper and poster presentation and also in other non-technical events. Our final year students conducted the BIOTEKIONZ'21 successfully and encouraged the juniors to show their active participation in the upcoming events. Our faculty published research article in well reputed journals and also our passed out students project work has been published during this period.