DEPARTMENT OF BIOTECHNOLOGY FEEDBACK FROM STAKEHOLDERS AND ACTION TAKEN (2018-19)

The department has formal and informal mechanisms to obtain feedback from stakeholders through various committees, associations and organizations, etc.

(1) Students' feedback

Students' feedback is taken once in every semester from the students.

Statements of student satisfaction pertaining to significant aspects of curriculum are as following

To support more on entrepreneurial & skill

To arrange alumni talks on their industry/ research experiences.

(2) Faculty feedback

Faculty have rated the Courses in 'Good to Excellent' category

Faculty members are well satisfied with Courses and contents

(3) Employer Feedback

Employer feedback was collected from

TNQ books & Journals Pvt Ltd

Parle Agra Pvt Ltd

Byju's Think &Learn

Visionary RCM infotech

Molecular connections

Microbiological Laboratory

The employer rated the technical knowledge in 'Average' to Good' category

Important suggestions are

Trainings to be given to students

Market &industry awareness to be given to students

Basic and application level knowledge to be imparted

(4) Alumni Feedback

Alumni gave feedback in 'Good' to 'Excellent' Category

Sample Feedback

Employer feedback

Karunya	Institute of Technology & Sciences
	(Decemed to be University)
CE	VTRE FOR PLACEMENT & TRAINING Karunya Nagar, Coimbatore 641 114

PERFORMANCE OF STUDENTS FROM KARUNYA UNIVERSITY

- 1. Name of the Company: M/s THIS TECHNOLOGIES
 2. Nature of the Company IT / ITES / Manufacturing / Service / Construction
- Please rate the <u>Overall Performance</u> of our students as per the following parameters:-

Factors	Excellent	
General Aptitude	Excellent	Good Average Below Average
A Technical Aptitude		_
Application Oriented Si	ill.	_
Basic Technical Knowle	doe	

Leadlership Qualities	I I
Professional Knowledge	
Result Orientation	
Creativity	
Attitude	
Communication Skills	
Interpersonal Relationship	
Team Building	
Self Development	

Self Develo	ppment	1		
4. Kindiy Indi	cate if you have any other ac	dditional feed-back t	o offer :-	
		200000000		100
Signature:	Heur.			
Name:	V-VEN)			
Designation:	Sevice OFREC	wire - HA	3	

Karunya Institute of Technology & Sciences (Deemed to be University) CENTRE FOR PLACEMENT & TRAINING CENTRY Magar, Communities 641-114 FEEDBACK FROM CORPORATES PERFORMANCE OF STUDENT'S FROM KARUNYA UNIVE

		COLLATS PROM KARUNYA UNIVERSITY
1.	Name of the Company	D
2.	Nature of the Company: N/s	Bylins Think & Learn TES/Manufacturing (Sanita (Sanita)
	and company - IT / I	TES / Manufacturina / Company Co.

3.	Please rate the Overall Porfo	/ TTES / Manufacturing / Service / Construction stmance of our students as per the folkiwing parameters:-
Tec	hnical Skills	tmance of our students as per the folktwing parameters:-

1	Factors General Aptitude	Excellent	Good	Average	Below Average	
A	Technical Apoltude		V		l littlege	
	Application Oriented Skills	_	No.			
	Basic Technical Knowledge					
	tee treat knowledge		~	1		and the state of the property
of	t-Skills					_
	Leadership Qualities .					
	Professional Knowledge					_
	Result Orientation					
	Creativity		-			
В	Attitude		~			
	Communication Skills					
				1		-
	Interpersonal Relationship	1				_
	Team Suilding					
	Self Development					

. Kindly indicate if you have any other additional feed-back to offer	
Enature: _ QU>-	
ame: (no k-1	
esignation: Sy Munger Staffing Applie Number: 9535743034	•
ate: 26/9/18	7

://docs.google.com/document/d/13IA5t4hkEVSEIDOkZszFWqGZFDzR5w.lz/adit

Karunya Institute of Technology & Sciences

(Deemed to be University)
CENTRE FOR PLACEMENT & TRAINING
Karunya Nagar, Coimbatore 641 114

FEEDBACK FROM CORPORATES PERFORMANCE OF STUDENTS FROM KITS

1.	Name of the Company: M/s	Malacula.	Commandia	Port 100	
2.	Nature of the Company – IT /	ITEC / AA	connections.	, VI Max	0.
3.	Please rate the Overall Porfer	ii ES / ivianufacturin	g / Service / Construct	tion / Branga	marios C

erformance of our students as per the following parameters:-

Technical Skills

Factors	Excellent	Good	Average	Below Average
General Aptitude		/	Average	below Average
A Technical Aptitude		-	-	
Application Oriented Skills		-	-	
Basic Technical Knowledge				

	Leadership Qualities			T - 1	
	Professional Knowledge				
	Result Orientation			-	
	Creativity				
В	Attitude	ne i	./		
	Communication Skills	V	-		
	Interpersonal Relationship			-	
	Team Building			-	
	Self Development			 	

Performance

Accepting Challenges & Tasks	
Conflict Management @ workplace	
C Meeting up Job requirements	1
Accepting Roles & responsibilities	1
Achieving Target	

4. Kindly Indicate if you have any other additional feed-back to offer:	
Slidents need to work on the basic and applied on	
of the and the transfer communication	- 1
Signature: Name: B. B. HARAT BHAT at Karunya.	ont
Designation: Associate - Difector Mobile Number: 9186032023	
Date: 10 4 2019	

Student feedback on curriculum

Name and Registration no: Sowndarya Sivalingam(URK17BT086)

Academic year: 2018-2019 Semester: III

Program Enrolled: B Tech Biotechnology/ B Tech Bioinformatics/ M Tech Biotechnology/ M Sc Microbiology

Particular	Very Poor (1)	Poor (2)	Average (3)	Very Good (4)	Excellent (5)
The curriculum is designed so as to enhance our employability			√		
The Courses studied by me have enhanced my knowledge as well as my skills and my capabilities			✓		
The entire syllabus is completed in time			✓		
Modern teaching aids, web-resources, multi-media, e-content etc. are used by most of the teachers while teaching				✓	
The reference materials available in the University				✓	
The curriculum is capable of supporting students in their higher studies			√		
The curriculum has the ability to foster entrepreneurial skills among the students				✓	
How do you rate the sequence of units in the syllabus			✓		
Rate the size of syllabus in terms of load on the student?			√		
How do you rate the objectives stated and relevance to the course content?				✓	

How could our Programs be improved? What sp	pecific comments do you	have regarding the curriculum?
---	-------------------------	--------------------------------

Signature of Student

Student feedback on curriculum

Name and Registration no: K.ABINAYA URK17BT103

Academic year: 2018-2019 (Even Sem) Semester: IV

Program Enrolled: B Tech Biotechnology

Particular	Very Poor (1)	Poor (2)	Average (3)	Very Good (4)	Excellent (5)
The curriculum is designed so as to enhance our employability					✓
The Courses studied by me have enhanced my knowledge as well as my skills and my capabilities					✓
The entire syllabus is completed in time					✓
Modern teaching aids, web-resources, multi-media, e-content etc. are used by most of the teachers while teaching					✓
The reference materials available in the University				✓	
The curriculum is capable of supporting students in their higher studies					✓
The curriculum has the ability to foster entrepreneurial skills among the students				✓	
How do you rate the sequence of units in the syllabus					✓
Rate the size of syllabus in terms of load on the student?					✓
How do you rate the objectives stated and relevance to the course content?					✓

How could our	r Programs	be improved?	What spe	cific comme	nts do you	have regar	ding the c	urriculum?
NO								

X

Signature of Student

Faculty Feedback

Name of the Faculty - Jr. Jesse 3 Program Gology in Every de			1	bogum.	Strongly
Particular	Stron gly agree	Agree	Neutral	Disagree	disagree
The contents of the Course have been presented from simple to complex form		/			
The curriculum provides opportunity for the conducting research and project related activities					
The contents of the course are in conformity with the learning outcomes.		<			
The curriculum is balanced with regard to theoretical and practical knowledge.		/			
The contents of the curriculum are in tune with the National level (GATE/CSIR) examinations.		/			
The curriculum has the potential in developing the habit of self learning among the students.	1				
The learning outcomes of the curriculum are of global standard.	1				
The curriculum has focus on skill development.	1				
Any suggestions for improving the curr	riculum?				

Department of Biotechnology Faculty Feedback on curriculum

Name of the Faculty Ann Joust

Academic year 2018 -19

Program Bi Teen

Course Proreactor eng

Particular	Stron gly agree	Agree	Neutral	Disagree	Strongly disagree
The contents of the Course have been presented from simple to complex form	1				
The curriculum provides opportunity for the conducting research and project related activities	1				
The contents of the course are in conformity with the learning outcomes.		1			
The curriculum is balanced with regard to theoretical and practical knowledge.	1				
The contents of the curriculum are in tune with the National level (GATE/CSIR) examinations.	1				
The curriculum has the potential in developing the habit of self learning among the students.			1		
The learning outcomes of the curriculum are of global standard.	1				
The curriculum has focus on skill development.		1			

Any suggestions for ir	mproving the curriculum?	

ghe

Alumni Feedback



ALUMNI FEEDBACK FORM

Bra	anch & Passing Year 20 b Name of Mentor D3. Poys.	Organization Name Designation Joined Year	Sefuere ongineer			
S.No	Alumni Feedback		Strongly Agree	Fairly agree	Somewhat agree	Disagree
			4	3	2	1
1	Did you get motivated towards serving Society?		1	A CHINA	THE RESIDENCE	
2	Has knowledge transfer here effected Societal responsibility & Ethics?		1	The state of the	A STREET, STRE	
3	Compare modern engineering tools for modeling and solving complex problems.		V		Park Children	
4	Do you feel self-motivated and have observed changes in your attitude in general?			Trois SE	SALES OF SALES	
5	Did you receive help for Higher studies and Career enhancement?			/	SE 16.	- 100
6	Has your Mentor-Mentee interactions improved your personality?			1		
7	Has your Faculty extended support in Academic and Co-curricular activities?		1		The Control of the	
8	Opportunity for Industry-Academic interactions?		/		CONSTRUCTION OF	
9	Have you been given opportunity for Training and Placement?	Carlo Carlo Company	200000	/		
10	General Infrastructure of the Department, Laboratories, Classrooms, Internet & Wi-F	i, and Library	1		COMPANY OF THE	
11	Evaluate the Project Guidance, Quality of support material, Sports and Cultural facility	ties.	1		State of the State	
12	Department Evaluation System Hostel Facilities (Mess).		1	0		
Your	Assessment (PSOs):		Strongly Agree	Fairly agree	Somewhat agree	Disagree
To wh	at extent were the following Programme Specific Objectives fulfilled by your department	nent	4	3	2	1
. 1	Have you gained Competency in Biotechnology?					0.010
2	Can you design, analyze, and interpret experimental data?	A THE REAL PROPERTY.	1		A STATE OF THE PARTY OF THE PAR	THE STATE OF
3	After the Course, are you confident to design and model Bioprocess?	TO SAN THE REAL PROPERTY.	1	1000000000		THE REAL PROPERTY.





Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)
A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION
AIDTE Approved 8 NAAC Accredited

DEPARTMENT OF BIOTECHNOLOGY

ALUMNI FEEDBACK FORM

Charm.	-4	W	60	2	Buch	
Our	AU.	ear	3	CHIC	ient.	

We appreciate your time you have spare to give us your feedback. This effort will help us for any improvements that you desire us to implement to provide the best of holistic education for you and also for the ensuing batch of students.

| Name of the Alumni | | Professional Details | Professional

	M-Tech	Organization Name				
Name of Mentor	Any Jacob	Designation Joined Year	Associate 2014			
	Alumni Feedback		Strongly Agree	Fairly agree	Somewhat agree	Disagre
Did you get motivated to war	rds serving Society?		4	3	2	1
Has knowledge transfer here	effected Societal responsibility & Ethios?		V	TO REGAIN		
Compare modern engineerin	g tools for modeling and solving complex problems		-			
Do you feel self-motivated a	nd have observed changes in your attitude in general?		V	-		
Did you receive help for Hig	her studies and Career enhancement?			~		
Has your Mentor-Mentee int	eractions improved your personality?					
Has your Faculty extended s	upport in Academic and Co-curricular activities?		0			
Opportunity for Industry-Ac-	ademic interactions?		/			
			/			OSBECK.
General Infrastructure of the	Department Laboratories Claserooms Internat 8 W	P. III			THE RESERVE OF THE PARTY OF	
Evaluate the Project Guidano	e Quality of support material Sports and Galant S	i-F1, and Library			San	N. S. S. S.
Department Evaluation Syste	m Hostel Facilities (Mass)	onties.				WIR SE
	in Floster r derittles (Wess).			/	SEE SEE SEE SEE	
at extent were the following P	rogramme Specific Objectives fulfilled by your description		Strongly Agree	Fairly agree	Somewhat agree	Disagree
Have you gained Competence	in Biotechnology?	unent	4	3	2	
Can you design, analyze, and	interpret apparimental data?		//	U.S.		A RESILE
After the Course, are you con	fident to design and model Diagram 0				A CONTRACTOR OF THE PARTY OF TH	
	Did you get motivated towar Has knowledge transfer here Compare modern engineerin Do you feel self-motivated a Did you receive help for Hig Has your Mentor-Mentee int Has your Faculty extended s Opportunity for Industry-Aci Have you been given opportu General Infrastructure of the Evaluate the Project Guidanc Department Evaluation Syste Assessment (PSOs); at extent were the following P Have you gained Competency Can you design, analyze, and	Alumni Feedback Did you get motivated towards serving Society? Has knowledge transfer here effected Societal responsibility & Ethics? Compare modern engineering tools for modeling and solving complex problems. Do you feel self-motivated and have observed changes in your attitude in general? Did you receive help for Higher studies and Career enhancement? Has your Faculty extended support in Academic and Co-curricular activities? Opportunity for Industry-Academic interactions? Have you been given opportunity for Training and Placement? General Infrastructure of the Department, Laboratories, Classrooms, Internet & W Evaluate the Project Guidance, Quality of support material, Sports and Cultural face Department Evaluation System Hostel Facilities (Mess). **SSSSSSMENT (PSOS):*	Did you get motivated towards serving Society? Alumni Feedback Did you get motivated towards serving Society? Alumni Feedback Did you get motivated towards serving Society? Las knowledge transfer here effected Societal responsibility & Ethies? Compare modern engineering tools for modeling and solving complex problems. Do you feel self-motivated and have observed changes in your attitude in general? Did you receive help for Higher studies and Career enhancement? Has your Mentor-Mentee interactions improved your personality? Has your Faculty extended support in Academic and Co-curricular activities? Opportunity for Industry-Academic interactions? Have you been given opportunity for Training and Placement? General Infrastructure of the Department, Laboratories, Classrooms, Internet & Wi-Fi, and Library Evaluate the Project Guidance, Quality of support material, Sports and Cultural facilities. Department Evaluation System Hostel Facilities (Mess). Assessment (PSOs): It extent were the following Programme Specific Objectives fulfilled by your department Have you gained Competency in Biotechnology? Can you design, analyze, and interpret experimental data?	Alumni Feedback Alumni Feedback Did you get motivated towards serving Society? Alumni Feedback Alumni Feedback Did you get motivated towards serving Society? Las knowledge transfer here effected Societal responsibility & Ethics? Compare modern engineering tools for modeling and solving complex problems. Do you feel self-motivated and have observed changes in your attitude in general? Did you receive help for Higher studies and Career enhancement? Has your Mentor-Mentee interactions improved your personality? Has your faculty extended support in Academic and Co-curricular activities? Opportunity for Industry-Academic interactions? Have you been given opportunity for Training and Placement? Beartal Infrastructure of the Department, Laboratories, Classrooms, Internet & Wi-Fi, and Library Evaluate the Project Guidance, Quality of support material, Sports and Cultural facilities. Department Evaluation System Hostel Facilities (Mess). Assessment (PSOs): Extend were the following Programme Specific Objectives fulfilled by your department Have you gained Competency in Biotechnology? Can you design, analyze, and interpret experimental data?	Alumni Feedback Alumni Feedback Did you get motivated towards serving Society? Also you feel self-motivated and have observed changes in your attitude in general? Did you receive help for Higher studies and Career enhancement? Has your Mentor-Mente interactions improved your personality? Has you reactive extended support in Academic and Co-curricular activities? Opportunity for Industry-Academic interactions? Have you been given opportunity for Training and Placement? General Infrastructure of the Department, Laboratories, Classrooms, Internet & Wi-Fi, and Library Evaluate the Project Guidance, Quality of support material, Sports and Cultural facilities. Department Evaluation System Hostel Facilities (Mess). Assessment (PSOs): Can you design, analyze, and interpret experimental data?	Name of Mentor Name of Mentor Alumni Feedback Alumni Feedback Did you get motivated towards serving Society? Alumni Feedback Alumni Feedback Strongly Agree Fairly agree Somewhat agree Alumni Feedback Strongly Agree Fairly agree Somewhat agree Alumni Feedback Strongly Agree Fairly agree Somewhat agree Alumni Feedback Did you get motivated towards serving Society? Compare modern engineering tools for modeling and solving complex problems. Do you feel self-motivated and have observed changes in your attitude in general? Did you receive help for Higher studies and Career enhancement? Has your Mentor-Mentee interactions improved your personality? Has your Faculty extended support in Academic and Co-curricular activities? Opportunity for Industry-Academic interactions? Have you been given opportunity for Training and Placement? General Infrastructure of the Department, Laboratories, Classrooms, Internet & Wi-Fi, and Library Evaluate the Project Guidance, Quality of support material, Sports and Cultural facilities. Department Evaluation System Hostel Facilities (Mess). Assessment (PSOs): at extent were the following Programme Specific Objectives fulfilled by your department Have you gained Competency in Biotechnology? Can you design, analyze, and interpret experimental data?

Action Taken

1. The curriculum should be capable of supporting students in their higher studies

Annexure 1

10RT2064	WORKSHOP PRACTICES FOR	L	T	P	C
19B12004	BIOTECHNOLOGISTS	0	0	2	1

Course Objectives:

- 1. To impart knowledge on good Laboratory Practices
- To impart knowledge on planning and procedures to develop models in biotechnology laboratories.
- 3. To impart knowledge on sequence of operations adopted in laboratories to fabricate models.

Course Outcomes:

- 1. Understand various laboratory tools and their applications.
- 2. Prepare basic solutions for chemical applications and their disposal.
- 3. Learn basic electrical processes involved in equipment and their trouble shooting.
- Understand plumbing
- 5. Design and fabricate the various objects in sheet metal using hand tools.
- 6. Apply manufacturing process for various biotech applications.

List of Experiments:

- 1. Measurements, tools and its usages
- 2. Fundamental electricals, electronics and trouble shooting
- 3. Basics of laboratory safety, first aid and disposal process
- 4. Basics of calculations and measurements
- 5. Introductory plumbing
- 6. Computer hardware and installations
- 7. Sheet metal fabrication and carpentry

Table 2 PROFESSIONAL ELECTIVE COURSES

S. No.	Course Code	Course Name		ours p Week T		Credits
	Elective – I					
1	19BT3009	zyme Technology and Industrial Applications 3 0 0		3		

BIOTECHNOLOGY 11.15

2	19BT3010	Microbial Biotechnology	3	0	0	3
3	19BT3011	Agriculture and Food Biotechnology	3	0	0	3
4	19BT3012	Big Data Analytics	3	0	0	3
5	19BT3013	Bioethics and Biosafety	3	0	0	3
		Elective - II				
1	1 19BT3014 Chemical Process Technology 3 0 0 3				3	
2	19BT3015	Immunotechnology	3	0	0	3
3	19BT3016	Computational Biology	3	0	0	3
4	19BT3017	Metabolic Regulation and Engineering	3	0	0	3
5	19BT3018	Clinical trials and Bioethics	3	0	0	3
		Elective - III				
1	19BT3019	Sustainable Bioprocess Development	3	0	0	3
2	19BT3020	Advanced Animal Biotechnology & Tissue Culture	3	0	0	3
3	19BT3021	Molecular Diagnostics	3	0	0	3
4	19BT3022	Drug Design and Discovery	3	0	0	3
		Elective – IV				
1	19BT3023	Transport Phenomena	3	0	0	3
2	19BT3024	Pharmaceutical Biotechnology	3	0	0	3
3	19BT3025	Bioreactor Engineering	3	0	0	3
4	19BT3026	Stem Cell Therapeutics	3	0	0	3
5	19BT3027	Nanobiotechnology	3	0	0	3
		Elective - V				
1	19BT3028	Advanced Plant Biotechnology	3	0	0	3
2	19BT3029	Cancer Management Techniques	3	0	0	3
3	19BT3030	Genomics and Proteomics	3	0	0	3
4	19BT3031	Advanced Environmental Biotechnology	3	0	0	3

2. The curriculum should have the ability to foster entrepreneurial skills among students

Annexure 2

Table 3

Category	S.No	Course	Name of the Course	Credits
		Code		[L:T:P:C]
3.Engineering	1	18ME1002	Engineering Graphics (AutoCAD)	0:0:2:1
science	2	19BT2064	Workshop Practices for Biotechnologists	0:0:2:1
	3	18EE1003	Basic Electrical and Electronics Engineering	3:1:0:4
	4	18EE1004	Basic Electrical and Electronics Engineering	0:0:2:1
			Laboratory	
	5	18CS1004	Programming for Problem Solving	3:0:0:3
	6	18CS1002	Programming for Problem Solving Lab	0:0:3:1.5
	7	19BT2002	Basics of Industrial Biotechnology	3:0:0:3
	8	19BT2003	Bioprocess Calculations	3:0:0:3
	9	19BT2004	Bio-analytical Techniques	3:0:0:3
	10	19BT2005	Bio-analytical Techniques Lab	0:0:3:1.5
	11	19CS2012	Artificial Intelligence for Biotechnology	3:0:0:3
			Total credits	25

19BT2059	ENTREPRENEURSHIP, IPR AND BIOSAFETY	L	T	P	C
19112039	ENTREPRENEURSHIP, IFR AND BIOSAFETT	3	0	0	0

Course Objectives:

- 1. To impart various aspects of product design and development
- 2. To inculcate concept generation and selection
- 3. To understand technology behind the product of the service

Course Outcomes:

- Understand the principles of product design, basic management techniques, entrepreneurial skills and funding agencies.
- Apply knowledge to the fundamentals of business plan, practical management concepts like leadership and motivation.
- 3. Induce entrepreneurial intent as well as innovation, scalability and marketing of the product.
- 4. Demonstrate the ability to provide a self-analysis in the context of an entrepreneurial career.
- 5. Assess the commercial viability of a new technology based idea to prototype and biosafety.
- 6. Transform research based ideas into feasibility and business plans and IPR.

Module 1: Concept of Entrepreneurship (5 hrs)

Concept and evolution of entrepreneurship, development of Entrepreneurship, stages in entrepreneurial process, entrepreneurship in India, Role of SSI in economic development, Government support for SSI.

Module 2: Societal Role in Entrepreneurship (4 hrs)

Role of society and family in the growth of an entrepreneur. Challenges faced by women in entrepreneurship.

Module 3: Product Process and Design (9 hrs)

Identification of business opportunities, project selection, contents, formulation, guidelines by planning commission for project report. Product design, importance, objectives, factors influencing product design, Product Development Process, sources of ideas for designing new products, stages in product design.

Module 4: Innovation and Prototype (9 hrs)

3. To arrange alumni talk on their industry experience

Annexure 3

11th National Level Technical Symposium (10th & 11th October, 2019) Programme Schedule

Registration : 9:00 am

Inaugural ceremony : 9:30 am to 10:30 am

Welcome Address

About the conference

Presidential address

: Dr. S. Jacob K Annamalai, Dean - SABS

: Dr. Jibu Thomas, Convenor - EVOGEN 19'

: Dr. P. Mannar Jawahar, Vice Chancellor, KITS

Release of Proceedings Honouring the Guest

Felicitation : Dr. R. Elijah Blessing, Registrar, KITS

: Dr. E. J. James, Pro-Vice Chancellor (SO)

: Dr. Ridling Margaret Waller, Pro-Vice Chancellor (QS)

: Dr. Prince Arul Raj, Dean (ET)

: Dr. C. Joseph Kennady, Dean (SSAMM)

Technical session I Lead lecture I

: Dr. Mukesh Doble, Professor Emeritus,

IIT-Madras, Chennai.

Lead lecture II : Dr. Latha Christie, Sr Scientist & Associate Director,

DRDO, Ministry of Defence, Bengaluru.

Technical session II

DAY-1 : Technical events(Oral presentation/ Poster Presentation/

Debate/ Quiz/ Bio war)

DAY-2

Industry Academia

Interaction : Dr. Rajani Kanth Vangela

: Dr. Rajani Kanth Vangela, Managing Trustee, Director Institute for Applied Research & Innovation, Bengaluru.

: Dr. T. Balashankar, Managing Director Clin Biocare Technology, Chennai

: Mr. P. A. Balakumaran, Manger & Scientist R&D,

Proklean Technologies Pvt Ltd., Chennai

: Mr. Srinivasan, M.Pharm, Asst. General Manager & Outsourcing, Shield Healthcare Pvt. Ltd., Pondicherry

Alumni Interaction

: Mrs. Jerusha, Regulatory start up Specialist,

IQVIA (Quintiles)

: Dr. Jeya Mary Jacob, Phd-Chemical Engineering,

(NIT Suratkal)Academician

3

Valedictory Session. : Prizes & Certificate Distribution.

National Anthem

DEPARTMENT OF BIOTECHNOLOGY

ALUMNI WEBINAR SERIES





Ms. S. Rohini

Executive, Biocon Biologics India Limited, Biocon house, Semicon park, Bangalore, Topic: Downstream Processing of monoclonal

antibodies, 7th May 2020, 10:30 AM Meeting ID: 79416571899, Password: 6hZJKq Staff Coordinator : Dr. David Paulrai



Mr. Ashok Kumar Muthusamy

Process Engineer

Abbvie Biologics Singapore Pte Ltd, Singapore Topic: Introduction to Pharmaceutical Industry, 16th May 2020, 11:00 AM

Meeting ID: 97063332063, Password: 088115 Staff Coordinator : Dr. Reva Issac



Mr. Arun Lal

Application Specialist - BD Biosciences. Issac Healthcare Services Co. W.L.L, Kuwait. Topic: COVID-19: Technology Solutions Enabling Diagnosis and Research, 8th May 2020, 09:30 AM, Meeting ID: 87438807510, Password: qGHIWvyFxm Staff Coordinator : Dr. Jibu Thomas



Ms. Sharon Felix

Consultant Instructional Designer/Reviewer. Origin Learning Solutions Private Limited, Chennai Topic: eLearning: The Future of Education and Enterprises, 18th May 2020, 03:00 PM Meeting ID: 93995621086, Password: 263845 Staff Coordinator: Dr. David Paulraj



Mr. Jeshurun Mathansingh

MSD Pharmaceuticals Pvt Ltd (Merck) Gurgaon. Topic: Indian Regulatory Affairs 14th May 2020, 11:30 PM Meeting ID: 3494967504. Password: 8GO0DN Staff Coordinator: Dr. Murugan



Mr. Arun John

Senior research fellow

Vision research Foundation, Chennai Topic: Microsecond Simulation of the Proteoglycanlike Region of Carbonic Anhydrase IX-intrinsically disordered region, 19th May 2020, 11:00 AM Meeting ID: 94571807823, Password: 162882 Staff Coordinator : Dr. Afroz Alam



Dr. Sachidanand singh

Associate Professor and Dean. Faculty of Biotechnology. Institute of Bio-Sciences and Technology, Shri Ramswaroop Memorial University, Lucknow- Deva Road, Barabanki, Uttar Pradesh, India

Topic: Identification of novel targets and their associated pathways for Rheumatoid Arthritis using next generation sequence data analysis, 6th May 2020, 12:00 PM, Meeting ID: 88484979095, Password: 5nNCA3

Staff Coordinator : Dr. J. Jannet Vennila

Companies Represented:













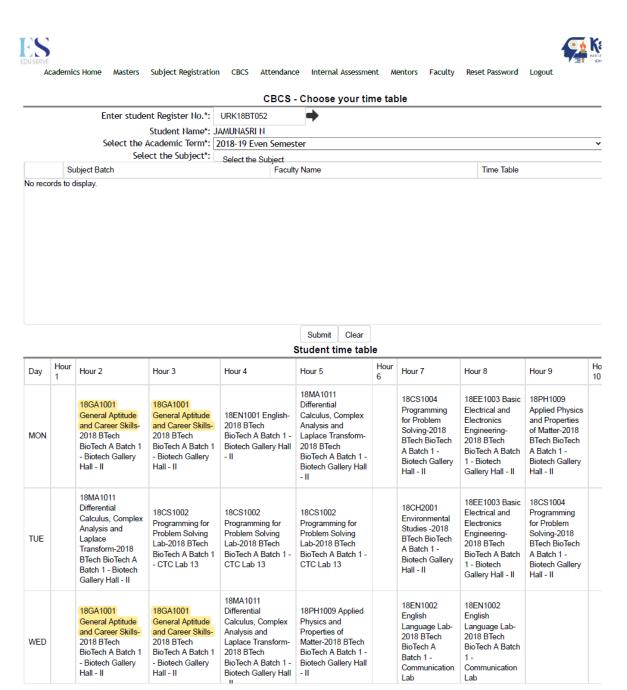






4. Trainings to be given to students

Annexure 4



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6. Basic and application level knowledge to be imparted

Example of a revised lab- (30% revision)

Annexure 5

10072012	BIOPROCESS LAB	L	T	P	C
19B12013	BIOPROCESS LAB	0	0	3	1.5

Co-requisite: 19BT2012- Bioprocess Principles

Course Objectives:

- 1. To learn the culturing of microbes and quantifying biomass production
- 2. To provide extensive knowledge on enzyme kinetics
- To learn immobilization techniques

Course Outcomes:

- Acquire knowledge in the process of fermentation.
- 2. Demonstrate enzyme assay qualitatively and quantitatively
- 3. Examine factors affecting enzyme activity.
- 4. Apply methods to produce fermented products
- 5. Utilize solid state fermentation for production of fermented products
- 6. Assess the effect of substrate concentration on growth of microbes.

List of Experiments:

- 1. Culturing of Different Types of Microorganism
- 2. Estimation of Biomass Production by wet weight and dry weight method
- 3. Effect of Substrate Concentration on Growth of E-coli
- 4. Effect of pH on Enzyme Activity
- 5. Effect of Temperature on Enzyme Activity
- Immobilization of α Amylase Enzyme by entrapment method
- Estimation of volumetric mass transfer coefficient

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- 8. Citric acid production by Solid State Fermentation
- 9. Qualitative Enzyme Assay- Starch Plate Technique
- 10. Quantitative Enzyme Assay
- 11. Production of Wine
- 12. Production of Amylase from Bacillus subtilis and Assaying for its Activity

10PT2055	MATLAB PROGRAMMING	L	T	P	C
19B12055	MATLAB PROGRAMMING	3	0	0	3

Course Objectives:

- 1. To ensure students to having strong foundation in matlab installation, configuration and basic
- 2. To introduce them to various string operations, functions and advanced matlab modules for plotting and graphics.
- 3. To understand the applications of Matlab modules for various biological applications.

Course Outcomes:

- 1. Identify installation, configuration and environmental setup of Matlab.
- 2. Demonstrate the usage of basic syntax and structure of Matlab
- 3. Apply knowledge of data types, operators and control structures to pseudocode
- 4. Analyze script functionality and offer improved performance in structure
- 5. Appraise structural validity, reproducibility of used Matlab functions
 6. Formulate biological applications in areas such as sequence processing, sequence analysis.

Module 1: Fundamentals (7 Hrs)

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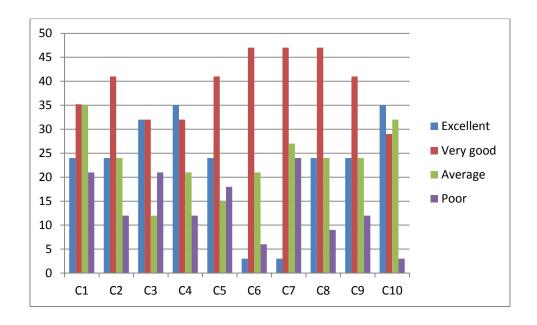
Action Taken Report

Students Feedback	
The curriculum should be	Workshop Practices for Biotechnologists Laboratory for UG
capable of supporting students	was introduced in 2019.
in their higher studies	Professional electives such as Tissue Engineering, Pathology
	and Microbiology, Animal Biotechnology and Cell Culture,
	Plant Tissue Culture, Protein Engineering, Molecular Forensics
	were included to support higher studies.
	(Annexure 1)
The curriculum should have	Introductory AI in Biotechnology was introduced for PG.
the ability to foster	Workshop Practices for Biotechnologists Laboratory for UG
entrepreneurial skills among	was introduced
students	In addition to the existing course on Entrepreneurship, IPR and
	Biosafety included in the curriculum
	(Annexure 2)
To arrange alumni talk on	Various alumni interactive sessions were organized in 2020.
their industry experience	Industry Interaction sessions were arranged in Technical events.
	(Annexure 3)
Employer Feedback	
Trainings to be given to	Courses on aptitude training, soft skills are offered to the
students	students.
	(Annexure 4)
Market and industry	Interactive sessions with alumni were arranged through alumni
awareness to be given to	lectures and technical events.
students	(Annexure 3)
Basic and application level	Workshop Practices for Biotechnologists Laboratory for UG
knowledge to be imparted	was introduced and all other laboratory sessions were revised.
	Programming papers were included.
	(Annexure 5)

Feedback Analysis

Student feedback

	Criterion used for analysis
C1	The curriculum is designed so as to enhance our employability
C2	The Courses studied by me have enhanced my knowledge as well as my skills and my capabilities
C3	The entire syllabus is completed in time
C4	Modern teaching aids, web-resources, multi-media, e-content etc. are used by most of the
	teachers while teaching
C5	The reference materials available in the University
C6	The curriculum is capable of supporting students in their higher studies
C7	The curriculum has the ability to foster entrepreneurial skills among the students
C8	How do you rate the sequence of units in the syllabus
C9	Rate the size of syllabus in terms of load on the student?
C10	How do you rate the objectives stated and relevance to the course content?



Alumni Feedback

	Criterion used for analysis
C1	Compare modern engineering tools for modeling and solving complex problems.
C2	Have you gained Competency in Biotechnology?
C3	Can you design, analyze, and interpret experimental data?
C4	After the Course, are you confident to design and model Bioprocess?

