

SRI RAMAKRISHNA COLLEGE OF ARTS AND SCIENCE



(Autonomous)

(Formerly SNR Sons College)

(Affiliated to Bharathiar University)

(Re-Accredited with 'A+' Grade by NAAC)

(An ISO 9001:2015 Certified Institution)

Nava India, Coimbatore-641 006, Tamil Nadu, India

DBT-STAR COLLEGE SCHEME

PROGRESS REPORT FOR THE ACADEMIC YEAR 2020-21

(Biotechnology, Electronics and Computer Science-Information Technology)

Submitted to



DEPARTMENT OF BIOTECHNOLOGY
MINISTRY OF SCIENCE & TECHNOLOGY
CGO Complex, Lodi Road
New Delhi - 110 003



DBT-STAR COLLEGE SCHEME

PROGRESS REPORT OF DBT- STAR COLLEGE SCHEME ACTIVITY FOR THE ACADEMIC YEAR 2020-21

(Biotechnology, Electronics and Computer Science-Information Technology)

Submitted to



DEPARTMENT OF BIOTECHNOLOGY NEW DELHI

Submitted by

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DEPARTMENT OF BIOTECHNOLOGY

PROFORMA FOR SUBMISSION OF ANNUAL PROGRESS REPORT SUPPORTED UNDER STAR COLLEGE SCHEME

1. Name of the College Sri Ramakrishna College of Arts and Science, Coimbatore

2. Name of Coordinator, designation, Address, Phone Nos.

Dr. R. Subashkumar

Associate Professor and Head (Biotechnology) Sri Ramakrishna College of Arts and Science Nava India, Avinashi Road, Coimbatore-641 006.

9942535116

3. Assessment duration 01/04/2020 to 31/03/2021

4. Details of Departments Supported

Name of Department	Courses (B.Sc./M.Sc./PG Diploma, certificate etc.)	Regular Faculty members Total =			
Name of Department	offered	With Ph.D.	Without Ph.D.		
(i) Biotechnology	B.Sc., M.Sc., M.Phil., Ph.D	7	1		
(ii) Computer Science	B.Sc., M.Sc., M.Phil., Ph.D	9	4		
(iii) Information Technology	B.Sc., M.Sc., M.Phil., Ph.D	6	4		
(iv) Electronics	B.Sc., M.Sc., M.Phil., Ph.D	4	5		
Number & Date of Advis	sory committee meeting	No. 2 (27.08.2	2020 &		

5. Number & Date of Advisory committee meeting

No. 2 (27.08.2020 & 19.02.2021

6. Qualitative improvements due to DBT support.

Quality improvement due to STAR College Scheme - Department wise

- 1. The Star College Scheme has enabled the departments to procure new equipment and improved the infrastructure facilities in multiple numbers and simultaneously performances, as a result of which the students are able to handle the instruments individually, and subsequently it has increased their confidence level. It was possible to organize Science day celebration in an interdisciplinary manner in our college with the help of DBT funds which has enabled undergraduate students of our college to participate in the various events and present their research work in the form of oral and e-poster presentations and also provided an opportunity to expose their hidden talents. In the past few months, the COVID-19 pandemic has impacted every sector of our life, However, despite the many challenges that have emerged due to the pandemic.
- 2. It is definitely a valuable attempt to provide online education because it has helped the students to stay in touch with their academics and be prepared to face the examinations sooner



or later. It was with the wonderful co-operation of the teachers and professors that the institutions were able to consistently schedule and execute the online classes. It was difficult in the beginning to make the students understand the new process but eventually it was done with perfection. The students not only listened to their teachers during online classes but also raised their doubts as they do in classrooms. This new normal helped the spread of digital education across the country and since all of us are accustomed to this practice, it can be used during any lockdown or emergency situation in future.

- 3. The pandemic has presented some significant challenges to the scientific community. However, at the same time, we offered opportunities for the pursuit of new scientific activities, particularly in getting exposure in biotechnology and medical advancements to all the students and public.
- 4. Curriculum enhancement through introduction of new practicals involving expensive chemicals / accessories have upgraded the learning skills of the students and also the teaching skills of the faculty members.
- 5. The department was able to invite several guest speakers which provided a broad academic exposure for both students and staff.
- 6. The grant has enabled the departments to organize workshops and also provided hands on training to the undergraduate students to enhance their technical skills and promoted research quest.
- 7. The Star College Scheme has enabled the departments to upgrade the existing teaching resources which have in turn improved the 'hands on' experimental exposure of the students, in-turn reflecting the enhanced quality of learning and teaching of the students and teachers respectively.
- 8. The facilitated infrastructure under DBT Star College Scheme increase the numbers of student mini and minor projects.
- 9. Industrial visit and field visits conducted under this scheme has enabled deserving students from economically poor sections to develop academic rapport and created a platform for employability.
- 10. Partial assistance has enabled several under privileged students to attend conferences/workshop and increase in hands-on usage of Bio related programming by students.
- 11. Able to create health awareness, computer literacy and IoT and its applications among the general public of the adopted village.



5 minor projects and their impact or similar activities and their outcome

Biotechnology

<u>Project 1: Bioremediation of petroleum hydrocarbons in petroleum oil spilled soils using different bacterial species</u>

Outcomes: To isolate and identify different bacterial strains that perform bioremediation and assay of petroleum oil degradation microorganisms and analyze the morphometric parameters using pot culture methods.

<u>Project 2: Characterization analysis, antibacterial and antibiofilm activity on green</u> synthesis of Zinc Oxide nanoparticles by leaf extract of *Annona squamosa*.

Outcomes: To synthesize zinc oxide nanoparticles from *Annona squamosa* leaf extract and characterize the synthesized nanoparticles through experimental analysis. To analyze the antibacterial potential using bacterial strain and assess antibiofilm activity of leaf extract.

<u>Project 3: Physico-Chemical characteristics and Nutraceutical distribution of Cordyceps militaris</u>

Outcomes: This chocolate uses cacao enriched with Medicinal Mushrooms to offer immune - boosting benefits. It has medicinal properties as it contains many biological active compounds like Cordycepin, cordycepic acid, adenosine, exo-polysaccharides, vitamins, enzymes etc. It contains amino acids and vitamin B12, K and carbohydrates, proteins thus, it has high nutritive value.

<u>Project 4: Edible mushrooms as a novel protein source as functional desert and analysis of</u> nutrient & antioxidant properties in Lentinula edodes (Shiitake mushroom)

Outcomes: To evaluate the nutrient content of value-added food in the form of Ice -Cream made from Lentinula edodes such as Total fat, Protein, Carbohydrate, Total sugar, Calories. And also, to assess the Antioxidant properties of the Lentinula edodes.

Project 5: Isolation and Identification of Selected Probiotic Bacteria from Yogurt & Formulation of the Feed for *Cyprinus carpio* Fish by adding cereals with Azolla, Spirulina and Probiotic Bacteria

Outcomes: To screen the probiotic bacteria from yogurt by using selective MRS agar plate method and identification based on morphological and biochemical analysis and to study the application of supplementary feed to fish fry (Grass carp) and analysis of fish growth and activities.

Electronics

Project 1: Real Time Drowsiness Detection System for Driver Monitoring Using Python

Outcomes: The main Moto of choosing this project is to reduce the rate of road accidents due to microsleep of the driver. To make the driver aware before any such accident occurs, we have made this system. It predicts the eye and mouth landmarks in order to identify if a person is falling asleep, by checking if his eyes are closed.



Project 2: Radar Detector using Arduino

Outcomes: Arduino Radar Sensor, Working Principle, Advantages, Disadvantages. Radar is an object detection system. It uses Microwaves to determine the range, altitude, direction, or speed of objects. The radar can transmit radio waves or microwaves which bounce off any object in their path.

Project 3: Automatic Floor Cleaning Robot

Outcomes: To design the automatic floor cleaning robot in order to work human hazards place and to skip need of personnel. To develop an autonomous robotics system using internet of things and to design a floor cleaning robot without human to the driving.

Project 4: Solar Tracking using Arduniouno

Outcomes: To design the Solar tracker rotates the panel along one or two axes (altitude and azimuth) so that it always facing the sun directly. A focusing collector could rotate the lens or reflector around the focal point.

Project 5: IOT Based Smart Agriculture System

Outcomes: The major goal of this project is to ensure that the crops receive adequate water through IoT Technology. The Google voice assistant used to turn on and off the water motor. We can operate the water from a remote place by using Blynk app.

Project 6: RFID Based Automatic Door System

Outcomes: To design and develop security can be attained by designing various door locks such as mechanical locks or electrical locks. These kind of door locks are designed with one or more keys, but for locking a large area various locks are needed

Project 7: Automatic Hand Sanitizer

Outcomes: A Novel design of hand sanitizer dispensing machine is automated, noncontact, alcohol-based hand sanitizer dispenser, which find it's used in hospital and workplace. Viruses are transferrable through touch and contact. In this project, create a contactless hand sanitizer dispenser that can be used for any press-to-release hand sanitizer available in the market. To clean or sanitize hands regularly to reduce the risk of infection

Project 8: Low-Cost Ventilator using Arduino

Outcomes: Design a working prototype that can be operated on a test lung has been developed. The prototype has user-controlled breath rate and tidal volume. It features assist control and an overpressure alarm.

Project 09: Alcohol Sensing Alert with Engine Locking



Outcomes: To developing a system which will lock the engine when the driver is drunk. The alcohol sensor—will be near the driver from where it can detect the presence of alcohol by analyzing the breath of the driver

Project 10: 2 AND 3 PIN Component Identifier and Descriptor

Outcomes: To identify the component polarity and status of working function.

Computer Science - Information Technology

Project 1: IoT Elderly person position Monitoring System

Outcome: Analyze and monitor elder persons in wheel chair

Project 2: A Smart Stick for Assisting Blind People

Created to help visually impact to guied them to respective destination

Project 3: Electricity Meter Reading using IoT

Analyze the electricity consumption and making it energy efficient

Project 4: Clean India Using Android Applications

Monitoring the society for hygiene using Android App

7. Any Novel aspect introduced or planning to introduce during the Scheme duration

- The course C-Programming and Biocomputing Lab introduced (academic year 2020-21 onwards) with the core contents of Complementary of DNA Sequence using Array concept, DNA Codon table using pointers and Counting DNA Nucleotides using file concept
- Introduced the following courses are introduced by Computers Science-Information technology
 - i. Computational Biology and Pharmaceutical Biotechnology.
 - Object Oriented Programming and Biocomputing Lab
 DNA sequence, find the % of nucleotides in the sequence; Calculate BMI;
 Define a class to represent genome sequence data along with member function;
 Print the double-helix DNA sequence
 - iii. Java Programming with Bio-Perl Lab Implemented DNA Sequence generation; Implement Protein Sequence generation
 - iv. Web Technology with Bio Computing Lab Java script program to convert DNA to reverse complement of DNA using recursive function; Web application for DNA to RNA Converter; Website for health care industry
 - v. Introduction of Compulsory Project in all the 3 participatory departments.
- Introduction of new experiments had aided the students to expand their knowledge.



- Interdisciplinary Projects ongoing
 - i. Foot Power Energy Generation System
 - ii. Air Pollution Monitoring System
 - iii. Automatic Hand Sanitizer with Door Control Systems
 - iv. Monitoring Soil Moisture for Terrace Gardening
 - v. Mobile App for College Bus Tracking
- Lab in Biostatistics and Lab in Biomedical Instrumentation courses are introduced
- Conducted workshops in the field of Molecular Biology and Biofarming, Mushroom cultivation, AI, Machine learning, Cloud, Digital marketing, Arduino, Bio Computing, Python Programming, PCB Design, Bio Robotics etc. by inviting experts from industry to augment internship programmes and to acquire hands-on experience.
- Students were encouraged to undertake compulsory Swayam NPTEL Courses as credit transfer courses (Human Genetics, Computer networks Fundamentals on Electronic device fabrication) and Coursera as add courses (Coursera on The Science of Stem Cells, Toxicology 21 – Application, AWS, Fundamentals, Cyber security, Cloud computing, Programming for everybody.
- Faculty members enriched their knowledge by participation and presentation in conferences/seminars and also DBT Star College enabled student initiatives such as paper presentations in conferences / Seminars and student exchange programmes (Dr NGP and KIT).
- On-site industrial training to augment institution-industry interface (Biofarming and Composting).
- Upgrading interdisciplinary instrumentation laboratory with state-of-the-art instruments that can be used for research in Health Care, Food Technology, Nanoscience, etc among the various departments (Biotechnology, Chemistry and Physics departments) and optimized utilization of Computer and electronic laboratories.
- Conduct of Awareness and Sensitization Programs to the society in the context of health (Diabetes awareness and blood group identification, Clean India).
- Standard e-learning modules were enhanced through Swayam NPTEL Platform in all the 3 participatory departments (with credit transfer system).

Student's Feedback

• The financial support given by DBT under STAR College scheme has enhanced the quality of the teaching and learning process. The introduction of new experiments in the practical syllabi and increase in the number of chemicals /



instruments has supported us in a great way to carry out the experiments individually.

- DBT Star scheme provided the opportunity to invite experts from various institutions and industries to share their expertise and developments related to current trends in life sciences among the student community. This encouraged us to carry out innovative group projects so that we can apply our scientific ideas for the upliftment of the society.
- Attending workshops helped us to gain hands on experience and to update our knowledge in the usage of modern instruments. Due to COVID19, most of the programmes organized by air, it is very connect high level experts and their experience.
- Students' Summer Internships / Mini Projects undertaken by us helped to attain practical knowledge with external exposure about the applications of scientific facts and execution methods.
- Guest lectures, mentors and interface meetings helped us to enrich our knowledge in the advancements of technology in research. Exposure to research through group projects and paper presentations in various conferences at the undergraduate level has helped us to realize our zeal towards research and motivated us to continue on to postgraduate studies and faculty positions.

Faculty Feedback

- Knowledge acquisition programmes like Conferences, Workshops and faculty
 FDPs in various fields of biological sciences, advanced computing has enabled
 the faculty to enrich their academic knowledge and gain hands on experience in
 technical aspects.
- Guest Lectures create opportunities for improvement the focus on teaching and also helps to direct and motivate the students to upgrade their academic performance.
- Hands on Training on IoT, Solar ambassador workshop and Humanoid robotics programme have helped to gain practical exposure in these areas.

Future plan

- Motivation of students to pursue higher studies in reputed National Institutions.
- Nutrition and Health hygiene campaign for the betterment of the society.
- Societal Analysis Workshops for awaking school students in science promotion activities.
- Collaboration with other colleges under the STAR Scheme to organize competitions and workshops of scientific interest



- Economic connectivity through Entrepreneurship Development Programmes Waste to wealth (handmade paper, jute craft, bio-gas, vermi-compost).
- Bio related concepts will be implemented in practical exercises.
- Vocational or skill training will be given the women students to financially support their family.
- Networking with research institutes/industry for further expanding research rigour.
- Develop and implement life skills /soft skills/ employability skills training modules for the students of their department and community members.
- Encouragement of students to take up societal oriented group projects and publish their results in SCOPUS indexed Journals.
- Motivate the students to pursue higher studies in reputed National Institutions and also encourage them to opt study Abroad Programmes.

8. Lessons learnt / difficulties faced/suggestions if any, in implementation of the programme and utilization of DBT grant (Max 3 points within 300 words).

- Introduction of Group Projects for final year students and compulsory internship for pre final year students in all the 3 participatory departments.
- Encouragement to participate and present papers in Conferences/Seminars/ Symposia, etc. and to develop good rapport among eminent subject experts in all the 3 participatory departments.
- Promoting UG students to publish research papers in renowned Journals in all the 3 participatory department.
- Improvement of infra structure facilities in all the 3 participatory departments.
- Encouragement of other department faculties for optimal use of equipment's and knowledge support.
- Promotion research thirst and learning skills through use of ICT tools. in all the 3 participatory departments.
- Popularizing and elevating the image of the college through star college scheme activity.

Constrains

- Reaching out school students to promote science.
- Hardship in organizing outreach activities to the general public due to COVID 19



1. Key performance indicators

No	Indicator	Pre-s	suppo		18-19)							20	19-20)						20	20-21	1			Rem arks
1,0	22202000										DEP	ARTME	NT C)F BIO	OTECH	INOLO	GY									
				7	Fotal :	=52						Total	= 59)							Tota	al = 64				
		M=20		F=32			M=27				F=32				M	= 27			F	7 = 37						
		SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	
		2	0	16	2	5	0	26	1	4	0	21	2	2	0	28	2	6	2	9	10	8	2	13	14	
			DEPARTMENT OF COMPUTER SCIENCE - INFORMATION TECHNOLOGY																							
				Т	otal =	170							Tota	l = 18	1			Total	= 190	6						
,	No. of students	N	I= 112	2		F	`= 58				M= 1.	31			F= 50				M=1	142			F=5	4		
1.	admitted	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	
		11	0	76	25	5	0	37	16	9	0	80	42	6	0	27	17	9	1	87	45	8	0	32	12	
												DEPA	ARTI	MENT	OF E	LECTR	ONIC	S								
				7	otal =	= 52							Tota	al = 62	2			Total	= 21							
		N	I= 46			F	=06				M=56				F=06			I	M=19				F=02			
		SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	SC	ST	OBC	G	
		4	-	40	2	1	-	5	-	12	-	44	-	1	-	5	-	1	1	14	4	-	-	2	-	

	No. of students passing out (%) Students Admitted/passing out (pass %)	Biotechnology	Batch 2016 – 2019	Batch 2017 - 2020	Batch 2018 - 2021	
		Diotechnology	52 students. 100 %	62 students.; 100 %	52 students.; 100 %	
2		Computer Science &	Batch 2016 – 2019	Batch 2017 - 2020	Batch 2018 - 2021	ŀ
۷.		Information	CS 116 students - 98%	CS students - 103 98%	CS 116 students - 98%	
		technology	IT 57 students - 99%	IT students - 52 97 %	IT 57 students - 99%	
		Electronics	46 students 97.83%	46 students 58.7%	52 students 100%	



			Pre-support 2018-19	2019-20	2020-21	
		Biotechnolog	03	01	0	
\3.	Drop-out rates	Comp &IT	3(5.55%)	2(3.33%)	1 (2.12%)	
	•	Electronics	03(5.77%)	03(4.8%)	0	
	N. C. I.	Biotech	17	18	26	
4.	No. of students	Comp &IT	12	18	24	
	opting for MSc	Electronics	12	20	23	
		Biotech	60	60	67.86	
5.	Average marks	Comp &IT	60	65	66	
		Electronics	56	58	76	
	No. of hands-on	Biotech	02	02	03	
6.	experiments being	Comp &IT	01	06	07	
	conducted	Electronics	02	07	07	
	No. of new	Biotech	05	15	07	
7.	experiments	Comp &IT	-	12	11	
	introduced	Electronics	02	08	08	
	Publications	Biotech	06	06	09	
8.	(Scopus indexed) /	Comp &IT	03 (IT) + 04 (CS)	01 (IT) + 07(CS)	12	
	patents, if any.	Electronics	05	10	11	
		Biotech			FDP online/Works	
			03	05	hop /Webinar – 55	
		Online courses –				
	Training received				71	
	by Faculty	Comp &IT			FDP online - 65	
9	by I dealty		03	02	Workshop - 18 Online courses - 56	
					Webinar - 82	
		Electronics			FDP online - 59	
		Electronics	00	10	Workshop - 08	
			09	18	Online courses - 26	
					Webinar - 32	
	Exilibitions/sellillar	Biotech	03	04	12	
10	s /training courses	Comp &IT	05	25	33	
	conducted	Electronics	1 + 3	2+3	09	
11	Books/journals	Biotech	03	03	-	
	subscribed from	Comp &IT	-	19	-	
	grants	Electronics	-	18	03	
12	Outreach activities	Biotech	2	02	04	
	(Popular lectures)	Comp &IT	2 01	09	09 05	
13	Colleges mentored	Electronics	V1	PSG College of Arts and	CMS College of	
13	to apply for DBT	Self motiv	vation for College	Science	Arts and Science	
	Star College Grants		gradation	PSGR Krishnammal	This and selence	
	and a second of the second of		0	College for Women		
14	Invited lectures	Biotech	04	16	19	
		Comp &IT	06	11	22	
		Electronics	03	13	14	



2. Self evaluation

Department	*Objective (as stated in proposal)	% achieved	Reasons for underachievem ent / If achieved, state in quantitative metrics
	To provide a high quality education in the various aspects of Biotechnology with diverse interests and career aspirations and also to acquire appropriate intellectual, scientific, technical and key transferable skills to promote self-directed and life-long learning	100	10
BIOTECHNOLOGY	This laboratory course will be designed to familiarize students with laboratory instruments, current techniques in molecular biology, bioprocess technology, animal and plant biotechnology to encompass hallmark applications providing students with practical knowledge of handling nucleic acids and protein blotting and detection. In addition, students will acquire skills in clinically oriented applications such as analysing and interpretation of data. so that they can thrive in an unpredictable and competitive 21st century	100	10
BIOT	Inculcating the research attributes among the students in design and execution of innovative idea at under graduate level and which will impart the innovative thinking in the field of biological research.	100	10
	The programme provides an excellent opportunity to biotech students to acquire industry and research establishments and standard e-learning modules will be developed for specific skill areas such as IPR, regulations and bio enterprise	100	10
	Enhanced hands on training exposure through an extended industrial training internship / short-term projects (Food and dairy industry, pharmaceutical industry, waste water treatment plants, Agroindustry, etc.).	100	10
COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	To provide a high quality education in the various aspects of Computer Science with diverse interests and career aspirations and also to acquire appropriate intellectual, scientific, technical and key transferable skills to promote self-directed and lifelong learning	100	10
COMPUTER SCIENCE AND INFORMATION TECHNOLOGY	This laboratory course will be designed to familiarize students with current techniques in the laboratory in the lab experiments. Net framework, Database Systems, Design and Analysis of algorithms, android application, Open Source Tools	100	10
CO SCII INFC TEC	In addition, students will acquire knowledge to develop real time projects Inculcating the research attributes among the students in design and execution		10



	of innovative idea at under graduate level and which will impart the innovative thinking in the field of Computational Science research.		
	The programme provides an excellent opportunity to computer science students to acquire industry and research establishments and standard e-learning modules will be developed for specific skill areas such as IPR, regulations and enterprise resource planning.	100	10
	Enhanced hands on training exposure through an extended industrial training internship / short-term projects (Data Analytics tools – R Programming, PIG, Software Testing Tools, Selenium, Win Runner, Automotated Testing, Bio informatics tools)	100	10
	To provide practical knowledge about electronic design tools, Students will acquire good programming skills in embedded C and Assembly language programming for micro controllers	100	10
NICS	Laboratory tools will impart knowledge on circuit designing and able to develop real-time projects	100	10
ELECTRONICS	Hands on training for prefinal years in integration with IIT and Robokart, Mumbai about the latest development	100	10
E	Online course to solve the social Economic problems	100	10
	The students are develop to embedded based innovative ideas at under graduate level, Summer training and industrial training for pre final years during summer vacation	100	10

Course Coordinator (With Seal)

Head of the Institution (With Seal)



ANNEXURE – I Students Projects undertaken (2020-21)

BIOTECHNOLOGY

	DIOTECHNOLOGI		
		No. of	
No.	Title of the Projects	the students	Outcomes
1.	<i>In vitro</i> fertilization: A Case Study in	3	Understood the procedure in which
1.	Kolkata, India	3	eggs are removed from a woman's
2.	Glutathione and its tole of Human Body	3	ovary and combined with sperm
3.	A case study on role of Tridax in	4	outside the body to form embryos.
	Diabetes		Ability to analyse the impact of role
4.	A case study on Scorpion Venom - Toxins that	3	of Tridax in Diabetes and cancer less
	Aid in Drug Development		creatures in the current senario Ability to evaluate the toxicity and
			impact of scorpion venom
5.	A Facel Ordensk an Danser	3	Learnt the epidemiological mapping of
	A Focal Outbreak on Dengue		Dengue in India
	Shock Syndrome Fever across		Ability to formulate the cancerless
6.	India	3	creatures whales for beneficial purpose
0.	A case study on cancer less creatures whales - Cetacean	3	Understand the mechanism involved
7.		3	in the tracing the prevalence of cancer
, ,	Role of Biomarkers in Cancer: A Review		using biomarkers
8.	Role of Metabolites Synthesized	2	
	from Yeast by Fermentation		
9.	Agroecosystem Remodeling in Cotton: A	4	Acquired the knowledge on
10	Short Review		medicinal property of the plants
10.	An Overview of Biofuel as a renewable energy	3	Experienced the ability to Prepare
11.	source: Development and Challenges Role of Biotechnology in Agriculture	3	eco-friendly nutrient for plant growth Extracted essential oil, Formulation of
11.	Role of Biolecinology in Agriculture	3	components for as perfume preparation
12	A cocceptuality on outliness conceptuality discouler	2	
12.	A case study on autism spectrum disorder	3	Demonstrated the technique for isolation of PHB from saprophytic
			bacteria
13.	Coronavirus Outbreak in India	2	Ability to apply nanotechnological
			approach, in the preparation of
14.	Bioplastics - As Green Alternative to Plastics	3	anticancer compounds
15.	Nanoparticles in Medicine	3	Learnt the bioinformatics tools and
			applied to modulating the C–C motif
16	Non-anomialas in automakilas	2	chemokine ligand family
16.	Nanoparticles in automobiles	3	Learnt the technique of scoring various types of cell aberrations under the
17.	Case Study on Inositol in Polycystic Ovary	3	microscopy as non-invasive
	Syndrome		biomarkers
18.	Covishield and Covaxin A Case Study on	1	Learnt the technique of preparing
	India's Covid-19 Vaccines		patients' slides and maintaining
			demography records of patients



Annexure II

ACTIVITIES UNDERTAKEN DURING 2020-21

 $\underline{Seminar/Conference/Workshops/Training/Guest\ Lectures/Organized}$

S.no	Dept.	Name of the Events	Period	Name and Address of the Participating College /University	No of Beneficiaries	Outcomes
1		Webinar on Metagenomics	06.05.2020	Dr Senthil Kumar N, Professor, Department of Biotechnology, Mizoram University, Mizoram	150	Acquired knowledge on the recent research in the metagenomics
2		Webinar on Next Generation Sequencing	07.05.2020	Dr Manimekalai R, Scientist (Biotechnology), Sugarcane Breeding Institute (ICAR), Coimbatore	150	Enhance the knowledge of students on the streamlined library preparation method for next generation sequencing
3		Webinar on Carcinogenesis - Mechanism, Detection and Therapeutics	08.05.2020	Dr Berlin Grace VM, Professor, Department of Biotechnology, Karunya Institute of Technology and Science, Coimbatore	150	Learnt the basic morphology and identification of cancer and also the pathway mechanisms during metastatis.
4	gy	Webinar on Drug Discovery and NGS Data analysis	09.05.2020	Dr Vivek Chandramohan, Assistant Professor, Department of Biotechnology, Siddaganga Institute of Technology (SIT), Karnataka	150	Elucidate the role of new efficacy and drug discovery, development and examples of how to predict toxicity early in the drug discovery
5	Biotechnology	Webinar on Advanced Chromatographic Techniques	27.05.2020 - 28.05.2020	Dr Laxmi Subramaniam, CEO, Shruthi Herbals, Coimbatore	150	Gained knowledge about Bioseparation techniques Chromatography and its types with different range of purification with both computerized and manual monitored machines
6		International Webinar Conference on Facts and Perspectives of Integrative Biology	02.06.2020 - 04.06.2020	Dr Ashok Kumar V Research Professor Faculty of Science Chulalongkorn University, Thailand Dr Boomi P Assistant Professor Department of Bioinformatics Alagappa University, Karaikudi Dr. A. Kamala Devi Department of Animal Science School of Life Sciences Bharathidasan University Trichy-620 024 Dr Yao Wang GZL Bioscience. Co. Lmd Anyang institute of Technology China	150	Session specified more on host pathogen interactions and main events carried out along with molecular mechanisms of pathogen



						COLLEGE OF ARTS & SCIENCE
				Dr Yekkuni L. Balachandran Assistant Research Professor Department of Biomedical Engineering Southern University of Science and Technology Shenzhen, Guangdong, CHINA Dr M Saravanan, Ph.D., Associate Professor, Department of Microbiology and Immunology, Mekelle University, Mekelle, Ethiopia.		
7		Evolution of cell culture Technology from 2D to 3D	11.09.2020	Dr. P. Venkatesh, Assistant Professor, Department of Biomedical Engineering, Sri Ramakrishna Engineering College, Vattamalaipalyam.	150	Acquired knowledge on providing information and tips regarding good lab practice, advantages of 2D and 3D cell culture
8		Gas Chromatography and its applications	21.10.2020	Dr A. Sangilimuthu, Associate Professor and Head, Dept of Biotechnology, Karpagam Academy of Higher Education, Coimbatore	150	Learnt the biological processes, hands on learning of GC-MS in a laboratory typesetting and provide knowledge on the importance of the technique
9	gy	DNA Fingerprinting and its Applications in Forensic and Paternity Testing	08.09.2020	Dr Amaladoss Anburaj, Scientist, Temasek Polytechnic, Singapore	150	Understand the method of isolating and identifying variable elements within the base pair sequence of DNA and paternity testing
10	Biotechnology	CH Theory for SH Life	29.10.2020	Prof. Pon Rathinavel, Assistant Professor, Akshaya College of Engineering, Coimbatore	150	Gained knowledge about the happiness relates with health for a successful outcome in any stream
11		Molecular Methods for Male infertility investigations: A Focus to Y chromosome microdeletion screening	08.09.2020	Dr. R. Suganthi, Prof & Head, Dept of Biotechnology, GRD College of Science, Coimbatore	150	Obtained knowledge on the concepts of Y chromosome micro deletion screening and the frequency, causes, inherited pattern, semen analysis
12		Computer Aided Drug Design	13.11.2020	Dr. S. Sivasankari, Assistant Professor, Department of Bioinformatics, Nirmala College of Women, Coimbatore	150	Understand the basic knowledge on the structure and target- based design, modelling and its applicability to real- time data analysis problem
13		ATMA-NIRBHAR way forward to BHARAT promote Bio-Business	16.11.2020	Dr. S. R. Madhan Shankar, Dean Academics and HOD of Biotechnology, Kongunadu Arts and	150	Elucidate the information about the scopes and job opportunities in the



				Science College, Coimbatore		various field of biotechnology and
14		Viral Metagenomics	23.11.2020	Dr. A. Sathish Kumar, Post-Doctoral Fellow, Manipal Institute of Virology, Manipal University – 576 104, Karnataka, India	150	research Obtained knowledge on the determining DNA sequence, challenges, considerations and limitations for metagenomic data analyses.
15	Biotechnology	Biotechnological Opportunities in Current Scenario	06.02.2021	Dr. S. N. Suresh Dean of Science, Rathinam College of Arts and Science, Coimbatore Dr. M. S. Mohamed Jaabir, Associate Professor & Head, PG & Research Department of Biotechnology and Microbiology, National College, Trichy. Mr. Anandhakumar Balan Area Manager, Medtronic labs, South Zone. Mr. Vatlamani Rajesh Area Manager, Pfizer, Chennai. Ms. S. Lydia Research Associate, Rasi Seeds, Salem. Mr. P. Saravanan, Assistant Manager Human Resource, SRM Institutes for Medical Science, Chennai.	150	Provided an interdisciplinary and biotechnological opportunities in current scenario
16	Biote	Bacterial abscessation	19.03.2021	Dr. S. Mariappan, PG & Research Department of Zoology, Yadava College, Madurai	150	Created awareness about the microbiological and genomic techniques used in the bacterial identification and characterization and wide exposure on the simple research techniques used for the identification of new bacteria and it's communities from the abscessation of goat population
17		Down Syndrome	22.03.2021	Dr. A. Sivaranjini Assistant Professor Department of Biotechnology, DG Vaishnav College, Chennai.	150	Acquired in-depth knowledge on causes, diagnosis and treatment of down syndrome and also gain knowledge on screening process during pregnancy
18.		Evolution of cell culture Technology from 2D to 3D	16.04.2021 to 17.04.2021		178	Benefited Science and allied area of researcher and academician



						exploited the necessity
						for student community
19.		Potential and Opportunities in Entrepreneurship	30.03.2021		98	Analysis of evolution of AI & ML- Computer vision
20		Seminar on Oracle DBMS	08 th Aug. 2017		100	Self realization and its techniques
21	NOLOGY	Workshop on Computer Science Fundamental and Information System	25th Sep. 2017		185	Analysis of evolution of AI & ML- Computer vision
22	- INFORMATION TECHNOLOGY	Workshop on "National Science Academies sponsored Recent Advancements and Challenges in Cyber Security"	04 th & 05 th Jan 2018		185	Self realization and its techniques
23		GSuite		Dwarakanath Cheyyur – Director, Cloud Reign Technologies	90	Using google cloud applications like docs, drives, sheets, forms,slides
24	COMPUTER SCIENCE	AI & Machine Learning		Mr Raja Appachi,Founder & CEO, One Whistle Inc, Sanfransico	60	Analysis of evolution of AI & ML- Computer vision
25	IPUTER	Goal Settings		Mr Balaji Krishnamurthy Managing Director, JP Morgan Chase, Newyork	60	Self realization and its techniques
26	CON	Zoho Creator		Ms Vijaya Nagarajan, Technical Consultant, Sun V Technology, Cbe	60	Zoho creator using drag and drop methodology
27.		Zoho Apps		Mr Shyam, Trainer, TECH4IS Solution, Coimbatore	60	Empowering apps, and transform to their worth
28.	CHNOLOGY	National Workshop on "AWS Cloud Computing"		Mr. Sai Natarajan, CEO, Duratech Solutions, CBE	56	Gain knowledge on AWS cloud services like EC2, IAM,S3,Automation load balancing
29	N TECHING	Bioinformatics		Sivakumar V Research Scientist (R&D), Apotex Research	42	Enlightened about various biological tools and Databases
30	MATIO	Web Designing		Mr. Pathy Thanagavelu, Business Head, Zillion Cubes, Coimbatore	60	Recent trends in web designing
31	– INFORMATION TE	Game Designing		Mr. Thiyagarajan S, Operations Head, Image Creative Education, Cbe	94	Usage of animation and visual effects
32	ENCE-	How Artificial Intelligence is Transforming Business		Mr. Austin P M, CEO, Edu Central.in	65	Applications of AI in business
33	COMPUTER SCIENCE	Recent Trends in Cloud Computing		Ms. Sowmiya K, Team Lead, IBM India Pvt. Ltd., Chennai	167	Usage of cloud platforms and security measures
34	OMPU	Data Science		Ms. Archana V, Team Lead, IBM India Pvt. Ltd.,Chennai	147	How data science adds value to business
35	Ŭ	Blockchain		Mr. Vishnu S, Software Trainer, IBM India Pvt Ltd., Chennai	104	Importance and future scope of blockchain



Faculty Participations

S.No.	Name of Faculty	Title of the events	Date
	•	BIOTECHNOLOGY	
	Dr. R. Subashkumar Dr. S. Rathish Kumar Ms. A. Aswini	One week FDP on "Quality Initiatives in Higher Education"	13.04.2020 . 20.04.2020
2.	Ms. A. Aswini	One week FDP on "Impact of COVID.19 on Higher Education Institutions Challenges and Responses"	16.04.2020 . 22.04.2020
3.	Dr. D. Jayasheela, Dr. M. Helan Soundra Rani	FDP on "Virtual Teaching"	20.04.2020 . 21.04.2020
4.	Ms. A. Aswini Dr. D. Jayasheela Dr. M. Helan Soundra Rani	One week FDP on "Managing Online Classes and Co.creating MOOCs"	20.04.2020 . 06.05.2020
5.	Dr. R. Subashkumar	Webinar on "Innovation, IPR, Entrepreneurship, and Start.ups among HEIs, Institution's Innovation Council (IIC) of MHRD's Innovation Cell, New Delhi"	28.04.2020 . 22.05.2020
6.	Dr. M. Helan Soundra Rani	Webinar on "Outcome Based Education"	29.04.20
7.	Dr. M. Helan Soundra Rani	Webinar on "Virtual Teaching. Learning MOODLE in Efficient way"	29.04.2020 . 30.04.2020
8. 9.	Dr. D. Jayasheela	Webinar on "Why Train Faculty"	30.04.20
	Dr. D. Jayasheela Ms. A. Aswini	FDP on "Examinations in wake of COVID. 19"	08.05.2020
10.	Dr. R. Subashkumar	Course Completed on "Tide Turners Plastic Challenge, United Nation Environment Programme, United Nation Environment Programme"	19.05.2020 . 30.05.2020
11.	Dr. M. Maleeka Begum Ms. A. Aswini Dr. D. Jayasheela Dr. R. Subashkumar	FDP on "Uncovering PIAZZA for effective Teaching"	20.05.20
12.	Dr. M. Maleeka Begum	FDP on "AI based proctoring in next generation education"	23.05.20
13.	Dr. D. Jayasheela	Five days Online FDP by IQAC	27.05.2020 . 31.05.2020
14.	Dr. M. Maleeka Begum Ms. A. Aswini	FDP on "Art of Writing Research Article In Hi.Indexed Journals"	29.04.2020 . 30.04.2020
15.	Dr. M. Helan Soundra Rani	FDP on "Educational Video Creation (E. Content Development)"	12.06.2020 . 18.06.2020
16.	Dr. M. Helan Soundra Rani	NPTEL on "Immunology"	11.13.2019
17.	Dr. R. Subashkumar	FDP on "Coronavirus 2019 (COVID.19). AACC Learning Lab for Laboratory Medicine"	4.12.2020
18.	Dr. R. Subashkumar	FDP on "Moodle Learning Management System"	25.04.2020 . 29.04.2020
19.	Dr. M. Maleeka Begum	FDP on "Moodle Learning Management System"	25.04.2020 . 29.04.2020
20.	Dr. R. Subashkumar, Dr. M. Helan Soundra Rani Ms. A. Aswini	Spoken Tutorial online course on "Introduction to Computers Training"	5.11.2020
21.	Dr. R. Subashkumar	Spoken Tutorial online course on "Front Accounting.2.4.7"	3.11.2020
22.	Dr. M. Helan Soundra Rani	Online course on "Basics of CRISPR.Cas9"	5.3.2020
23.	Dr. R. Subashkumar	Online course on "COVID.19: Operational Planning Guidelines and COVID.19 Partners Platform to support country preparedness and response"	5.4.2020
24.	Dr. R. Subashkumar	Online course on "Competency.Based Learning: Introduction"	5.4.2020



		COLLEGE OF THIT O' COLLINGE
Dr. R. Subashkumar	Online course on "Infection Prevention and Control (IPC) for Novel Coronavirus (COVID.19) WHO Health Emergency Programme"	5.4.2020
Ms. A. Aswini	Online course on "Aspirants of CSIR. NET in Life Science"	05.05.2020 . 11.05.2020
Dr. M. Helan Soundra Rani	Online course on "Genetic Disorder"	06.05.2020 . 08.05.2020
Dr. M. Helan Soundra Rani	Online course on "Basics in Chromatography"	07.05.2020 .16.05.2020
Dr. D. Jayasheela	Online course on "Basics in Chromatography"	07.05.2020 .16.05.2020
Dr. R. Subashkumar	Online Course on "Python: Beginners Tutorial"	11.05.2020 . 17.04.2020
Dr. R. Subashkumar	Training on "Biopython Training"	5.11.2020
Dr. M. Maleeka Begum	Training on "Biopython Training"	5.11.2020
Dr. M. Helan Soundra Rani	Training on "Biopython Training"	5.11.2020
Dr. M. Helan Soundra Rani	Spoken Tutorial Training on "Moodle test for Teachers Training"	5.12.2020
Ms. A. Aswini	Spoken Tutorial Training on "Moodle test for Teachers Training"	5.12.2020
Dr. D. Jayasheela	A Comprehensive Online Course on "Personnel and Stress Management"	13.05.2020 . 14.05.2020
Ms. A. Aswini	A Comprehensive Online Course on "Personnel and Stress Management"	13.05.2020 . 14.05.2020
Dr. D. Jayasheela, Ms. A. Aswini Dr. M. Helan Soundra Rani	Online Course on "Endophytes: The hidden treasure"	13.05.2020 . 14.05.2020
Dr. M. Maleeka Begum Dr. R. Subashkumar	Webinar on "Severe Acute Respiratory Infection. Treatment Facility Design"	15.05.2020
Dr. R. Subashkumar	Webinar on "Standard precautions: Waste management, WHO Health Emergency Programme"	16.05.2020
Dr. R. Subashkumar	Skill Training Programme on "Campus to Corporate: A Bridge Course for Corporate World"	18.05.2020 . 24.05.2020
Dr. R. Subashkumar	Webinar on "Bioinformatics as Catographic Tool in Drug Discovery"	19.05.2020 . 30.05.2020
Dr. D. Jayasheela	Webinar on "COVID – 19 Pandemic Awareness Programme"	5.30.2020
Dr. M. Maleeka Begum	Training on "Public Financial Management system. Expenditure advance Transfer. Eat Module"	30.07.2019 . 31.07.2019
Dr. S. Rathish Kumar	Training on "Quantum Mechanics, Molecular Mechanics and Metadynamics"	26.02.2020 . 27.02.2020
Dr. J. Dineshbabu	Training on "Quantum Mechanics, Molecular Mechanics and Metadynamics"	26.02.2020 . 27.02.2020
Dr. R. Subashkumar	Training on "Apiculture"	13.05.2020 . 15.05.2020
Dr. D. Jayasheela	International Workshop on "Biomedical Application in Translational Research"	18.05.2020 . 19.05.2020
B1. B. sayasneera	Translational Research	19.03.2020
	Ms. A. Aswini Dr. M. Helan Soundra Rani Dr. M. Helan Soundra Rani Dr. D. Jayasheela Dr. R. Subashkumar Dr. M. Maleeka Begum Dr. M. Helan Soundra Rani Dr. M. Helan Soundra Rani Dr. D. Jayasheela Ms. A. Aswini Dr. D. Jayasheela Ms. A. Aswini Dr. D. Jayasheela, Ms. A. Aswini Dr. M. Helan Soundra Rani Dr. M. Helan Soundra Rani Dr. D. Jayasheela, Ms. A. Aswini Dr. R. Subashkumar Dr. R. Subashkumar Dr. R. Subashkumar Dr. R. Subashkumar Dr. R. Subashkumar Dr. R. Subashkumar Dr. D. Jayasheela Dr. R. Subashkumar	Dr. R. Subashkumar Ms. A. Aswini Online course on "Aspirants of CSIR. NET in Life Science" Dr. M. Helan Soundra Rani Dr. M. Helan Soundra Rani Dr. D. Jayasheela Online course on "Basics in Chromatography" Dr. R. Subashkumar Dr. R. Subashkumar Dr. M. Helan Soundra Course on "Basics in Chromatography" Dr. R. Subashkumar Dr. R. Subashkumar Dr. M. Maleeka Begum Dr. M. Helan Soundra Rani Dr. D. Jayasheela A Comprehensive Online Course on "Personnel and Stress Management" Dr. D. Jayasheela Dr. D. Jayasheela Dr. D. Jayasheela, Ms. A. Aswini Dr. M. Helan Soundra Rani Dr. D. Jayasheela, Ms. A. Aswini Dr. R. Subashkumar Dr. R. Sub



50.	Dr. R. Subashkumar Dr. M. Helan Soundra Rani	Workshop on "DNA Barcoding"	22.05.2020 . 24.05.2020
	Ms. A. Aswini Dr. D. Jayasheela		
51.	Ms. A. Aswini	Webinar on "Biomolecular visualization Tools"	28.5.2020
52.	Dr. M. Maleeka Begum	International Web conference on "Eco Club Coimbatore Chapter"	2.1.2020
53.	Ms. A. Aswini	Webinar on "Working and Learning during A Pandemic"	4.30.2020
54.	Dr. D. Jayasheela		
	Dr. M. Helan Soundra	Webinar on "Biotechnological and Nanotechnological Application	04.05.2020 .
	Rani	for Marine Bioresources Augmentation"	09.05.2020
	Ms. A. Aswini		
55.	Ms. A. Aswini	Webinar on "Simulation tools for Innovative Research"	5.5.2020
56.	Ms. A. Aswini	Webinar on "Bacterial Virulence: Perceptive and Pragmatic approach"	5.5.2020
57.	D D I I I	Webinar on "Bacterial Virulence: Perceptive and Pragmatic	
	Dr. D. Jayasheela	approach"	5.5.2020
58.	Ms. A. Aswini	Webinar on "Principles and applications of Electronic	5.7.2020
	IVIS. A. ASWIIII	Spectroscopy"	5.7.2020
59.	Dr. R. Subashkumar	Webinar on "Turn the Challenges to Opportunities: COVID.19	5.28.2020
		Pandemics and measures to combat in Higher Education of India"	
60.	Dr. D. Jayasheela	Webinar on "Combating COVID – 19 Awareness Programme"	5.10.2020
61.	Dr. M. Maleeka Begum	Webinar on "Sustainability of Quality Parameters in Higher	11.05.2020
	21. IVI. IVIGICORU DOGUIII	Education Institutions"	.17.05.2020
62.	Dr. M. Maleeka Begum	Webinar on "Controlling Mosquito to Protect Public Health:.	5.11.2020
62	_	West.Nile, Zika, Chikungunya & Dengue Viruses"	
63.	Dr. D. Jayasheela	Webinar on "Scope of Biotechnology in Food Industries"	5.11.2020
64.	Ms. A. Aswini	Webinar on "E – Seminar: What is Flow Cytometry"	5.12.2020
65.	Dr. M. Helan Soundra Rani	Webinar on "Basics of Research Methodology & Interdisciplinary Research in Biomedicine"	12.05.2020 . 13.05.2020
66.		Webinar on "Basics of Research Methodology & Interdisciplinary	12.05.2020
00.	Dr. D. Jayasheela	Research in Biomedicine"	13.05.2020
67.		Webinar on "Knowledge Generation in Education during COVID –	12.05.2020
07.	Ms. A. Aswini	19 Pandemic"	16.05.2020
68.	Dr. M. Helan Soundra	Webinar on "Knowledge Generation in Education during COVID –	12.05.2020 .
	Rani	19 Pandemic"	16.05.2020
69.	Dr. D. Javachaela	Webinar on "Knowledge Generation in Education during COVID –	12.05.2020 .
	Dr. D. Jayasheela	19 Pandemic"	16.05.2020
70.	Dr. M. Helan Soundra	Webinar on "Sustainable Biosolutions 2020"	12.05.2020
	Rani		.18.05.2020
71.	Dr. R. Subashkumar	Webinar on "Application of Bioinformatics in drug design (COVID 19)"	5.13.2020
72.	Dr. D. Jayasheela	Webinar on "Social Intelligence in Classrooms"	5.13.2020
73.	Dr. D. Jayasheela	Webinar on "Keep Corona Away: The Organic Way"	5.14.2020
74.	Dr. S. Rathish Kumar	Webinar on "Host Immunity and COVID.19.Ayurveda Aspect"	5.14.2020
75.	Dr. M. Maleeka Begum	National Webinar on "Role of Analytical instruments in	14.05.2020
	21. 1/1. 1/Iuicona Beguiii	bioseperation"	.15.05.2020
76.	Dr. D. Jayasheela	National Webinar on "Role of Analytical instruments in bioseperation"	14.05.2020 .15.05.2020
77.		National Webinar on "Role of Analytical instruments in	14.05.2020
''.	Ms. A. Aswini	bioseperation"	.15.05.2020
78.	Ms. A. Aswini	Webinar on "Bio.Medical Textile A Sojourn from Fibers to Fabrics"	5.14.2020
79.	Dr. M. Helan Soundra Rani	Webinar on "COVID.19 Vaccine Development"	5.15.2020
80.	Ms. A. Aswini	Webinar on "Future Entrepreneurs"	5.15.2020
81.	Dr. M. Helan Soundra	National Webinar on "E. Seminar: Designing, Troubleshooting and	5.18.2020
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Rani	Applications of PCR Primers"	
Dr. Nishu Sekar	Webinar on "English Intelligence for the future"	5.18.2020
Ms. A. Aswini	Webinar on "Triggering Skill development for young biologist"	18.05.2020 . 22.05.2020
Ms. A. Aswini	Webinar on "Environmental Forensics	19.05.2020 . 21.05.2020
Dr. R. Subashkumar	Webinar on "International Day of Biological Diversity, Biotechnika"	5.22.2020
Ms. A. Aswini	Webinar on "Advances in Biotechnology health, food and nutrition to encounter COVID.19"	22.05.2020 . 23.05.2020
Dr. D. Jayasheela		5.25.2020
Dr. M. Maleeka Begum	Webinar on "Influence of Climate Change on Biodiversity	5.26.2020
Dr. R. Subashkumar	Webinar on "Biomaterials on Healthcare Application"	28.05.2020 . 30.05.2020
	Webinar on "Mental Health and Managing Stress"	5.28.2020
		29.05.2020 .
	Webinar on "Emerging Technology in Chemistry"	30.05.2020
Rani Ms. A. Aswini	Webinar on "Recent Advancements in Bio & Nanomaterials"	5.30.2020
Dr. M. Helan Soundra Rani	International webinar on "Biotechnology: Application area and Development Process"	31.05.2020 02.06.2020
	<u> </u>	
Dr M Thamaraiselvan, Dr V Sidtharthan	Moodle Learning Management System	29.05.2020 to 31.05.2020(3 Days)
Mr V Sathishkumar	Prospects in Security and Privacy with Emerging Technologies	25.05.2020 to 30.05.2020(5 Days)
Dr K Poornima, Dr K Ashokkumar	Machine Learing Algorithms, Applications & Advantages	25.05.2020 to 30.05.2020(5 Days)
Mr V Sathishkumar, Ms S Indira	Scilab. An open Source Substitute for MATLAB	25.05.2020 to 30.05.2020(5 Days)
Dr K Ashokkumar, Ms S Indira	Hands on Training on Technology Assisted Teachong Tools	25.05.2020 to 30.05.2020(5 Days)
Mr M Prasannakumar	Recent Innovations in electrical, Electronics, Instrumentation, Automation & Teaching Pedagogy	18.05.2020 to 30.05.2020(14 Days)
Dr K Ashokkumar, Dr M Thamaraiselvan Dr V Sidtharthan Mr V Sathishkumar Ms S Indira	Innovative Trends in Engineering and Technology	25.05.2020 to 29.05.2020(5 days)
Mr V Sathishkumar	Advance in Python , Python for Data Science and Cyber Security	21.05.2020 to 27.05.2020(7 Days)
Dr V Sidtharthan	Accelerating industry 4.0.A Learning & Development Perspective	26.05.2020(1Day)
Mr V Sathishkumar	Machine Learning	26.05.2020(1 Day)
Mr V Sathishkumar	Empowering Faculty and Develop to Share Global Competency	20.05.2020 to 23.05.2020(4 Days)
Dr K Ashokkumar, Mr V Sathishkumar	MATLAB Baesd teaching. Learning in Mathematics , Science & Technology	18.05.2020 to 22.05.2020(5 Days)
	Dr. Nishu Sekar Ms. A. Aswini Ms. A. Aswini Dr. R. Subashkumar Ms. A. Aswini Dr. D. Jayasheela Dr. M. Maleeka Begum Dr. R. Subashkumar Dr. D. Jayasheela Dr. R. Subashkumar Dr. R. Subashkumar Dr. R. Subashkumar Dr. M. Helan Soundra Rani Ms. A. Aswini Dr. M. Helan Soundra Rani Mr. V Sathishkumar Mr V Sathishkumar Mr V Sathishkumar Mr V Sathishkumar Mr V Sathishkumar, Ms S Indira Dr K Ashokkumar, Ms S Indira Dr K Ashokkumar, Ms S Indira Mr M Prasannakumar Dr K Ashokkumar, Dr M Thamaraiselvan Dr V Sidtharthan Mr V Sathishkumar Mr V Sathishkumar Dr K Ashokkumar, Dr M Thamaraiselvan Dr V Sidtharthan Mr V Sathishkumar	Dr. Nishu Sekar Webinar on "English Intelligence for the future"



106.	Mr AP Ramesh, Dr M Thamaraiselvan Mr V Sathishkumar Mr M Prasannakumar Dr K Ashokkumar	Role of IoT , Embedded Electric Vehicle and Power Electronics Converters for Smart World	18.05.2020 to 22.05.2020(5 Days)
107.	Dr K Ashokkumar	The Art of Debriefing in Simulation Based Learning	22.05.20209(1 Day)
108.	Dr K Ashokkumar	Python Programming	18.05.2020 to 22.05.2020(5 Days)
109.	Dr K Poornima	Recent Trends in Machine Learning and AI	19.05.2020 to 21.5.2020(3 Days)
110.	Dr K Ashokkumar	Uncovering Piazza for Effective Teaching	20.05.2020(1 Day)
111.	Dr V Sidtharthan	Data Science using R and Geo Gebra	11.05.2020 to 14.05.2020(4 Days)
112.	Dr M Thamaraiselvan	Research Methologies	14.05.2020 (1 Day)
113.	Dr M Thamaraiselvan	IoT & AI	13.05.2020(1Day)
114.	Dr K Ashokkumar	Concept Development and Model Building for Social Science	12.05.2020(1 Day)
115.	Dr M Thamaraiselvan, Dr V Sidtharthan Dr K Poornima Mr M Prasannakumar Dr K Ashokkumar Mr V Sathishkumar Ms S Indira Mr AP Ramesh	Manging Online Classes and Co. Creating MOOCs	20.04.2020 to 06.05.2020(15 days)
116.	Mr M Prasannakumar	Enhancing Research Communication through Science Direct and Mendeley	03.05.2020(1 Day)
117.	Dr M Thamaraiselvan	Moodle Learning Management System	29.04.2020 to 01.05.2020(2 Days)
118.	Mr AP Ramesh, Dr K Ashokkumar	Art of writing Research article in HI indexed Journals	29.04.2020 to 30.04.2020(2 Days)
119.	Mr AP Ramesh	Research Methology	27.04.2020(1 Day)
120.	Ms S Indira	Virtual Teaching	20.04.2020 to 21.04.2020(2 Days)
121.	Dr M Thamaraiselvan, Dr V Sidtharthan Dr K Poornima Ms S Indira Mr M Prasannakumar, Mr AP Ramesh	Qualities initiatives in Higher Education	13.04.2020 to 20.0.2020(7 Days)
122.	Mr M Prasannakumar	R Programming	19.04.2020 to 24.04.2020(6 Days)
123.	Mr V Sathishkumar	Teaching , Learning and Assessment with MOOCs & open educational Resourse with Hands on Approach	08.02.2020 to 12.02.2020(5 Days)



20.01.2020(1 Day) 13.08.2019 to 14.08.2019(2
Days)
July 2019. Augest 201994 Weeks)
alth Monitoring System 27.07.2019(1 day)
03.06.2020 to 09.06.2020(7 Days)
30.05.2020(1Day)
29.05.2020(1 Day)
28.05.2020(1Day)
loud Technology 27.05.2020(1 Day)
25.06.2020(1 Day)
adigm 25.05.2020(1 Day)
25.05.20209(Day)
y and Technology 23.05.2020(1Days
18.05.2020 to 24.05.2020(7 Days)
23.05.2020(1 Day)
23.05.2020(1 day)
22.05.2020(1 Day)
future 21.05.2020(1 day)
in Electronic 21.05.2020(1 Day)
20.05.2020(1 Day)
for Research and 19.05.2020(1 Day)
m a Medical 19.05.2020(1 Day)



146.	Mr V Sathishkumar	Re Evaluating Covid .19 for New Business Opportunities	5.19.2020
147.	Mr V Sathishkumar	Introduction to Service Design	19.05.2020(1 Day)
148.	Dr K Ashokkumar	Virtual Reality and Augumented Reality in Aviation Industry	18.05.2020(1 Day)
149.	Dr M Thamaraiselvan Ms S Indira Dr K Ashokkumar	Effective Facilitating Skills.best Practice	16.05.2020(1 Day)
150.	Dr M Thamaraiselvan	Knowledge Generation in Education	12.05.2020 to 16.05.2020(5 Days)
151.	Dr K Ashokkumar	Knowledge in Generation during Pandemic Covid.19	12.05.2020 to 16.05.2020(5 Days)
152.	Mr V Sathishkumar	Leadership Talk	16.05.2020(1 Day)
153.	Mr V Sathishkumar	Python Programming. A Beginners Perspective	15.05.2020(1 Day)
154.	Mr M Prasannakumar	Deep Learning for Computer Vision Using MATLAB	15.05.2020(1 Day)
155.	Mr V Sathishkumar	Bio medical textiles A Sojourn Fibers to Fabrics	14.05.2020(1 Day)
156.	Dr M Thamaraiselvan Dr K Ashokkumar Mr M Prasannakumar	Recent Trends in VLSI Technology	11.05.2020(1 Day)
157.	Dr K Ashokkumar	Increase your KASH of Better Tomorrow	09.05.2020(1 Day)
158.	Dr V Sidtharthan	India First Leadership Talk Webinar	5.9.2020
159.	Dr K Ashokkumar	Robotic Process Automation	09.05.2020(1 Day)
160.	Dr K Ashokkumar	Industrial Based Embedded Automation	08.05.202091 Day)
161.	Mr AP Ramesh	Industrial Based Embedded Automation	08.05.202091 Day)
162.	Dr K Poornima	WLAN and Security Concepts	06.05.2020(1 Day)
163.	Dr M Thamaraiselvan Mr AP Ramesh Dr K Ashokkumar Mr M Prasannakumar	Simulation Tools for Innovative Research	05.05.2020(1 Day)
164.	Dr K Ashokkumar	FEM SoLVER Based Antenna Design for Wireless Application	05.05.2020 to 06.05.2020(2 Days)
165.	Dr V Sidtharthan	How to be a Successful Instructional Designer In E .Learning	30.04.2020(1 Day)
166.	Dr V Sidtharthan Mr M Prasannakumar	Programming for Everybody(Python)	28.05.2020 (4 Weeks)



			COLLEGE OF ARTS & SCIENCE
167.	Dr V Sidtharthan	Impact of Artficial Intelligence and Cognitive Computing	27.05.2020(1 Day)
168.	Mr M Prasannakumar	Programming for Everybody	27.05.2020(1Day)
169.	Dr M Thamaraiselvan	MATLAB Based Teaching ,Learning Mathematics Science & Engineering	18.05.2020 to 22.05.2020(5 Days
170.	Mr AP Ramesh	Python	12.05.2020(1 Day)
171.	Mr M Prasannakumar	Moodle Test for Teachers	12.05.2020(1 Day)
172.	Mr M Prasannakumar	Introduction to Computers	11.005.2020(1 Day)
173.	Dr K Poornima	Introduction to Computers	11.005.2020(1 Day)
174.	Dr M Thamaraiselvan Dr V Sidtharthan Dr K Poornima Dr K Ashokkumar Mr AP Ramesh Mr V Sathishkumar Mr M Prasannakumar	Arduino	11.05.2020(1 Day)
175.	Mr V Sathishkumar	R Programming	11.05.2020(1 Days)
176.	Mr M Prasannakumar	Industry 4.0	11.05.2020(1 Day)
177.	Mr M Prasannakumar	The Fundamentals of Digital Marketing	03.05.2020(1 Day)
178.	Dr M Thamaraiselvan, Dr V Sidtharthan	Moodle Learning Management System	May 2020(Two Weeks)
179.	Dr M Thamaraiselvan	Technical Support Fundamentals	May 2020 (4 Weeks)
180.	Dr M Thamaraiselvan	Introduction to goole Docs	May 2020(One Weeks)
181.	Mr V Sathishkumar	ESP8266 Web Server Optimization using Arduino IDE	24.04.2020(1 Day)
182.	Mr V Sathishkumar	Robotics System	04.09.2019
183.	Mr V Sathishkumar	Basic Electrical and Electronics	1215.09.2019 (3 Days)
184.	Dr M Thamaraiselvan Mr V Sathishkumar	Desiging Learner Centric MOOCs	July 2019. August 2019 (94 Weeks)
185.	Mr V Sathishkumar	An Approach to Prevent Network Attack	25 to 26.05.2020 (2 Days)
186.	Mr V Sathishkumar	Simple Application in creation using Different Platforms Multi .tier Architecture	18 to 22.05.2020(5 Days)
187.	Mr V Sathishkumar	Social Network Analysis	20.05.2020(1 Day)



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188.	Dr M Thamaraiselvan	Intellectual Property Rights	10.04.2020 to 11.04.2020(2 Days)
189.	Dr K Ashokkumar	Latex	22.01.2020(1 Day)
190.	Mr V Sathishkumar	IoT Applications Using TICC3200	13.08.2019 to 14.08.2019(2 Days)
191.	Dr K Ashokkumar	Emerging Trends in Science and Technology	28.02.2020 to 29.02.2020(2 Days)
192.	Mr M Prasannakumar	Energy Storage System using VLSI System Design	28.02.2020(1 Day)
193.	Mr V Sathishkumar	Medical Signal Processing in Bio Medical and Clinical Applications	02.07.2019 to 03.07.2019(2 Days)
		COMPUTER SCIENCE	Buysy
194.	Devibala Subramanian Arthi R	FDP on "Power to Perform" organized by Sri Ramakrishna College of Arts and Science	03.06.2019 to 09.06.2019 and 7 days
195.	Dr Manikanaprabhu P Arthi R	FDP on "IoT Applications using TI CC3200" organized by Sri Ramakrishna College of Arts and Science	13.08.2019 to 14.08.2019 and 2 days
196.	Devibala Subramanian	FDP on "Disruptive Technologies and Inculcating Life Skills" organized by CSI Coimbatore Chapter	15.10.2019 and 1 day
197.	Arthi R	FDP on "Disruptive Technologies and Inculcating Life Skills" organized by CSI Coimbatore Chapter	15.10.2019 and 1 day
198.	N Mahendiran Dr G Maria Priscilla Dr P Manikandaprabhu R Arthi R Nagarajan Dr Anna Saro Vijendran Devibala Subramanian, Praneesh M	FDP on "Quality Initiatives in Higher Education" organized by consortium of colleges	13.4.2020 to 20.04.2020 and 8 days
199.	Dr V Vijayakumar	AICTE Recognized Faculty Development Programme on Internet of Things organized by NITTTR, Chandigarh	15.04.2020 to 19.04.2020 and One Week
200.	Dr P Kavitha	FDP on "R Programming" Organized by Sri Krishna Arts and science college	19.04.2020 to 24.06.2020 and 1 Week
201.	Dr V Vijayakumar Arthi R	FDP on "Virtual Teaching" organized by Coimbatore Institute of Technology, Coimbatore	20.04.2020 to 21.04.2020 and 2 Days
202.	Dr V Vijayakumar Dr P Manikandaprabhu Devibala Subramanian Dr G Maria Priscilla N MahendiranArthi R	FDP on "Managing Online Classes and Co.Creating MOOCs" organized by Sri Ramanujan College, University of Delhi	20.04.2020 to 06.05.2020 and 2 weeks
203.	Dr P Kavitha	FDP on "Recent trends in AI and impact of teaching professionals" organized by RVS CAS	22.04.2020 . 24.04.2020 and 3 Days
204.	M Praneesh	FDP on "Recent trends in AI and impact of teaching professionals" organized by RVS CAS	22.04.2020 . 24.04.2020 and 3 Days



205.	Dr Anna Saro Vijendran	FDP on Python & LaTex through MOOCs	23.04.2020 to 29.04.2020 and 1 Week
206.	Arthi R	FDP on "PYTHON" organized by Vellalar College for Women	23.04.2020 to 27.04.2020 and 5 days
207.	M Praneesh	International FDP on Develop ability to write Research Proposal	24.04.2020 and 1 Day
208.	Dr G Maria Priscilla	A seven.day Workshop for faculty	24 to 30.04.2020 7 days
209.	Dr P Kavitha M Praneesh	National FDP on Art of Writing Research Article in H.Indexed Journals	29 to 30.04.2020 2 Days
210.	Dr P Kavitha	FDP on "Industry 4.0" organized by VET INSTITUTE OF Arts and Science	01.05.2020 and 1 Day
211.	Dr Anna Saro Vijendran	FDP on Computer Intelligence in Digital Era	2rd May . 26th May 2020
212.	M Praneesh	National FDP On Machine learning and Artificial Intelligence	04 to 06.05.2020 and 3 Days
213.	Dr S Govindaraju	FDP on "Internet of Things" organized by AICTE Training and Learning (ATAL) Academy	04 to 08.05.2020 and 5 days
214.	Dr S Govindaraju	FDP on "Python Programming" organized by Vellore Institute of Technology VIT, Chennai	05 to 09.05.2020 5 days
215.	M Praneesh	National FDP on Research Challenges and Opportunities of COVID 19	05 to 09.05.2020 5 days
216.	Dr Anna Saro Vijendran	FDP on Enhancing Excellence in Higher education through aaessment and Accrediation	06 to 08.05.2020 3 Days
217.	N Mahendiran	FDP on "Improving your research visibility.Research Impacts and Metrics"	11 to 13.05.2020 3 Days
218.	Dr Anna Saro Vijendran Dr G Maria Priscilla M Praneesh	FDP on Impact On AI In Education And Industry Post Covid.19	11 to 14.05.2020 4 Days
219.	Dr G Maria Priscilla	Season 5 Of Skycampus. The Future of Skills . Education, Employment & Entrepreneurship	11.05.2020 to 15.05.2020 and 5 Days
220.	Dr V Vijayakumar	FDP on "Artificial Intelligence" organized by Indian Institute of Information Technology, Vadodara	11.05.2020 to 15.05.2020 and 5 Days
221.	Dr P Kavitha	FDP on "Cryptography and network security" organized by Panimalar Institute of technology	11.05.2020 . 15.05.2020 and 5 Days
222.	Dr P Manikandaprabhu	FDP on Innovation to Academicians	11.05.2020 to 16.05.2020, 1 Week
223.	M Praneesh	National FDP on Scope of Artificial Intelligence and Machine learning in Automation	11.05.2020 to 17.05.2020
224.	M Praneesh	National FDP on Developing Teachers overall personalities	11.05.2020 to 20.05.2020
225.	Devibala Subramanian R Arthi	FDP on "Computational Intelligence" organized by PSG CAS	12.5.2020 to 16.5.2020 and 5 days



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226.	M Praneesh	National FDP on Innovative Teaching and Learning Process	13.05.2020 to 19.05.2020
227.	Devibala Subramanian	FDP on "Role of Artificial Intelligence in world Health Crisis" organised by Sri Ramakrishna College for Women Coimbatore	18.05.2020 and 1 day
228.	Dr Anna Saro Vijendran Dr P Kavitha	FDP on "Future Tech 2020" organized by ICTACT	18.05.2020 to 22.05.2020 and 5 Days
229.	Dr G Maria Priscilla R Nagarajan	FDP on Principles Of Management	18.05.2020 to 22.05.2020 and 5 Days
230.	Dr V Vijayakumar Dr P Manikandaprabhu	FDP on "Open Source Cyber Security Tools" organized by NITTTR, Chandigarh	18.05.2020 to 22.05.2020 and One Week
231.	Dr Anna Saro Vijendran M Praneesh	International FDP on Enhancing your IT Skills During Quarantine	18.05.2020 to 23.05.2020
232.	Dr G Maria Priscilla	FDP on "Challenges In Higher Education During Post Covid.19"	18.05.2020 to 23.05.2020 and One Week
233.	Dr P Manikandaprabhu	FDP on Joy of Python	18.05.2020 to 24.05.2020, 1 Week
234.	Dr S Govindaraju	FDP on "Python Programming and Machine Learning Techniques" organized by KSR College of Engineering Tiruchengode	18.05.2020 to 22.05.2020 and 25.05.2020 to 29.05.2020 and 10 days
235.	N Mahendiran R Nagarajan M Praneesh	FDP on Research prospects and promisesof deep learning in problem solving	19.05.2020 to 22.05.2020 and 4 Days
236.	Dr Anna Saro Vijendran Dr P Kavitha	FDP on "Uncovering Piazza for effective teaching" organized by Amaravathi college of Arts and Science	20.05.2020 and 1 Day
237.	Dr P Kavitha	FDP on "Free and Open Access Resources for Teaching, learning and research" organized by Sri Adi Chunchanagiri Women's College	20.05.2020 and 1 Day
238.	M Praneesh	National FDP on Deep Neural networks and Expert Systems	25.05.2020 to 29.05.2020
239.	Dr P Manikandaprabhu	FDP on Indigenous Knowledge Systems and Modern Education	25.05.2020 to 29.05.2020, 1 Week
240.	Dr P Manikandaprabhu	FDP on The impact of Yoga and Meditation in strengthening Body, Mind and Spiritual Health	25.05.2020 to 31.05.2020, 1 Week
241.	Dr G Maria Priscilla	FDP on " Robotic Process Automation"	25.05.2020 to 29.05.2020 and 5 days
242.	R Nagarajan	FDP on impact of data in information Technology and its applications	28.05.2020 .01.06.2020 and 5 Days
243.	Dr P Manikandaprabhu	National Workshop on Training of Teachers for Student Induction Programme (Deeksharambh . Phase II)	30.10.2019 to 31.10.2019, 2
			Days



245.	Dr P Kavitha Dr P Manikandaprabhu Arthi R M Praneesh Devibala Subramanian	Workshop on "Teaching Beyond Curriculum" organized by Vellalar College for Women	24.4.2020 to 30.04.2020 and 7 days
246.	M Praneesh	National workshop on Fine Tuning Research Planning using Elsevier Tools: Science Direct, Scopus and Mendeley	25.04.2020 and 1 Day
247.	Dr P Manikandaprabhu	Online Workshop on "Enhancing Research Communication Skills through ScienceDirect and Mendeley" organized by Dayalbagh Educational Institute, Dayalbagh, Agra	03.05.2020 and 1 Day
248.	M Praneesh	National Workshop on R for Basics Statistics	11.05.2020 . 15.05.2020 and 5 Days
249.	M Praneesh	Hands on Training on Image editing using GIMP	11.05.2020 . 15.05.2020 and 5 Days
250.	Dr G Maria Priscilla	5 Day Free Online Workshop For Teachers	14.05.2020 to 18.04.2020 and 5 Days
251.	R Arthi	Webinar on "Technology for Future " organized by ICT Academy	10.4.2020 to 15.04.2020
252.	Arthi R	Webinar on "Managing Stress and Emotional & Mental Well.Being during COVID.19 Crisis for Educators" organized by VET Institute of Arts and Science, Thindal, Erode	27.04.2020 and 1 day
253.	Arthi R	Webinar on "The Future is Here Now " organized by ICT Academy	27.4.2020 to 01.5.2020 and 5 days
254.	Dr Anna Saro Vijendran	Webinar on "The Future is Here Now " organized by ICT Academy	27.4.2020 to 01.5.2020 and 5 days
255.	Dr Anna Saro Vijendran	Webinar on SimulationTols for Innovative Research	5th May 2020
256.	Dr Anna Saro Vijendran	Webinar on How to be a Successful Instructional Designer in e.Learning	6th May 2020
257.	Dr Anna Saro Vijendran	Webinar on Next Gen Computing Paradigm	7th May 2020 . 8th May 2020
258.	Devibala Subramanian	Webinar on "Life Long learning for Professional Self Development"	07.05.2020 and 1 day
259.	Dr S Govindaraju	Webinar on "Virtual Classroom Management using Microsoft Teams" organized by Lakkireddy Bali Reddy College of Engineering, Andra Pradesh	11.05.2020 and 1 day
260.	Dr S Govindaraju	Webinar on"Real Time Case Studies in Robotics . A Research Perspective" organized by Dr NGP Institute of Technology, Coimbatore	13.05.2020 to 16.05.2020 and 4 days
261.	Dr S Govindaraju	Webinar on "Sentiment Analysis Concepts and Applications" organized by Nehru Arts and Science College, Coimbatore	14.05.2020 and 1 day
262.	Dr S Govindaraju	Webinar on "Doom in Palm . Hidden Threats of Mobile Usage" organized by Kovai Kalaimagal College of Arts and Science, Coimbatore	15.05.2020 and 1 day
263.	Dr S Govindaraju	Webinar on "Basics of Data Analytics " organized by Kovai Kalaimagal College of Arts and Science, Coimbatore	16.05.2020 and 1 day
264.	Dr S Govindaraju	Webinar on "Block Chain Basics" organized by Sri Eshwar College of Engineering, Coimbatore	18.05.2020 and 1 day



265.	Dr Anna Saro Vijendran	Webinar on "Block Chain Basics" organized by Sri Eshwar College of Engineering, Coimbatore	18.05.2020 and 1 day
266.	Dr S Govindaraju	Webinar on "Research Thrust Areas in Composites" organized by Arasu Engineering College, Kumbakonam	20.05.2020 and 1 day
267.	Dr G Maria Priscilla	Webinar on " Season of 6 Skycampus . Future Tech 2020"	18.05.2020 to 22.05.2020 and 5 days
268.	Dr Anna Saro Vijendran R Arthi Devibala Subramanian	Webinar on "Data Science . Research Opportunities" organized by Sri Ramakrishna College of Arts and Science	
269.	Dr P Kavitha	Webinar on "Computing Paradigms"	21.05.2020 to 22.05.2020 and 2 days
270.	Dr S Govindaraju	Webinar on "Open Power Big Data AI" organized by P University of Wisconsin Platteville	22.05.2020 and 1 day
271.	Dr S Govindaraju	Webinar on " How to Publish a Research Paper " organized by Vivekanandha College of Arts and Sciences for Women, Tiruchengode	22.05.2020 and 1 day
272.	R Arthi	International Webinar on "AI based Proctoring in Next Generation Education" organized by Shri Shankarlal Sundarbai Shasun Jain College for Women, Chennai	23.5.2020 and 1 day
273.	Dr S Govindaraju	Webinar on "National Level Technical Webinar using NLP" organized by Mahendra Engineering College, Namakkal	24.05.2020 and 1 day
274.	Dr Anna Saro Vijendran R Arthi	Webinar on "Accelerating Industry 4.0 . A Post Covid Paradigm " organized by ICT Academy	25.5.2020 to 29.5.2020 and 5 days
275.	Dr Anna Saro Vijendran	Webinar on "MatLab Onramp" organized by RVS Technical Campus, Coimbatore	27.05.2020 and 1 day
276.	Dr S Govindaraju	Webinar on "MatLab Onramp" organized by RVS Technical Campus, Coimbatore	27.05.2020 and 1 day
277.	Dr S Govindaraju	Webinar on "Research Opportunities in the Field of Technology" organized by Dr Ashok Gujar Technical Institute's Dr Daulatrao Aher College of Engineering, Karad	28.05.2020 and 1 day
278.	Dr P Manikandaprabhu	Short Term Course on Virtual Learning Environment	18.05.2020 to 24.05.2020, 1 Week
279.	Dr G Maria Priscilla	Online Course on " Moodle Learning Management System" from Spoken Tutorial	01.01.2020 .12.05.2020 5 Months
280.	Nagarajan R R Arthi Devibala Subramanian	Online Course on "JAVA" from Spoken Tutorial	01.01.2020 .23.04.2020 16 Weeks
281.	Dr V Vijayakumar	online Course on "Adrunio" from spoken Tutorial	22.04.2020
282.	Devibala Subramanian Dr P Kavitha	Online Course on "Python 3.4.3 Programming" from Spoken Tutorial	28.04.2020 . 12.5.2020 15 Days
283.	Dr Anna Saro Vijendran Arthi R	Online Course on "R Programming " from Spoken Tutorial	28.04.2020 . 12.05.2020 15 Days
284.	Dr Anna Saro Vijendran Dr G Maria Priscilla	Online Course on "Introduction to Computers" from Spoken Tutorial	01.01.2020 . 12.05.2020
285.	M Praneesh	Online Course on "Big Data Architecture" from Amity Future Academy	30.04.2020 4 weeks
286.	R Nagarajan	Online Course on "Digital Marketing" Google Digital Garage	5.5.2020 4 Weeks



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287.	R Arthi	Online Course on " Cyber Security" from Amity Future Academy	24.04.2020 4 weeks
288.	M Praneesh	Online Course on "Complete Remote Sensing Image Analysis for ENVI Software" from Udemy	15.04.2020 7 hrs
289.	M Praneesh	Online Course on "Natural Language Processing with Deep Learning in Python " from Udemy	14.04.2020 13hrs
290.	Dr Anna Saro Vijendran	Online Course on "Image Editing using GIMP Tool	11.05.2020 . 15.05.2020 5 Days
291.	Dr V Vijayakumar	Online Course on "R Programming " from Spoken Tutorial	11.5.2020
292.	Dr V Vijayakumar	Online Course on "Python" from Spoken Tutorial	12.5.2020
293.	Dr N Mahendran, Arthi R Dr P Kavitha Dr S Govindaraju Devibala Subramanian Dr G Maria Priscilla Dr P Manikandaprabhu Dr Anna Saro Vijendran Nagarajan R	AI for Everyone	27.05.2020 4 Weeks
294.	Dr Manikanaprabhu P Dr G Maria Priscilla Nagarajan R Arthi R	Use Canva to Create Social Media Marketing Designs	12.05.2020 1 Week
295.	Dr Anna Saro Vijendran Devibala Subramanian Nagarajan R	Online Course on "Cloud Computing Basics" from Coursera	27.05.2020 3 Weeks
296.	Devibala Subramanian	Online Course on" Introduction to Google Docs" from Coursera	06.05.2020 1 Week
297.	Devibala Subramanian	Online Course on "Creating First Project using C++" from Coursera	06.05.2020 1 Week
298.	Dr Anna Saro Vijendran	Online Course on "Image Data Augmentation with Keras" from Coursera	29.05.2020 1 Week
299.	Dr Anna Saro Vijendran M Praneesh Nagarajan R Devibala Subramanian	Online Course on"Image Classification with CNNs using Keras" from Coursera	06.05.2020 1 Week
300.	R Nagarajan M Praneesh	Online Course on "Postive Psychology" from Coursera	28.05.2020 6 Weeks
301.	R Nagarajan	Online Course on "Fundamentals of Management" from Coursera	28.05.2020 4 Weeks
302.	Dr Anna Saro Vijendran	Online Course on" Write Professional Emails in English" from Coursera	21.05.2020 4 Weeks
303.	Dr Anna Saro Vijendran	Online Course on "Fundamentals of Network Communication" from Coursera	25.05.2020 4 Weeks
304.	M Praneesh	Online Course on "Introduction to Augmented Reality and ARcore	24.05.2020 4 Weeks
305.	M Praneesh	Online Course on" Programming for Everybody(Getting Started with Python)" from Coursera	24.05.2020 4 Weeks
306.	Dr P Manikandaprabhu	Online Course on" Programming for Everybody(Getting Started with Python)" from Coursera	24.05.2020 4 Weeks
307.	M Praneesh	Online Course on "Initiating and Planning Projects" from Coursera	06.05.2020 4 Weeks
308.	M Praneesh	Online Course on " Introduction to Machine Learning " from Coursera	26.05.2020 4 Weeks
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309.	R Arthi	Online Course on "Using Database with Python" from Coursera	09.05.2020 4 Weeks
310.	Dr G Maria Priscilla	Online Course on " Completed Certmaster Learn for Itf+" from CompTIA	25.05.2020 19hrs
311.	M Praneesh	Online Course on "Network Security and Database Vulnerabilities" Coursera	28.05.2020 4 Weeks
312.	Mahendran N	Online Course on " Technical Support Fundamentals" from Coursera	29.05.2020 6 Weeks
313.	Arthi R	Online Course on " Data Science" Amity Future Academy	17.04.2020
		INFORMATION TECHNOLOGY	
314.	Mrs Vidhya B	Spoken Tutorial . Python 3.4.3	22.Apr.20
315.	Mr Rajeev R	Cursa . Wordpress for Beginners by Design Tuts	5.May.20
316.	Mr Rajeev R	Solo Learn . C++ Tutorial Course	5.May.20
317.	Mr Rajeev R	Cursa . Game Development using PyGame	7.May.20
318.	Mr Rajeev R	Coursera . AI for Everyone	8.May.20
319.	Dr Sumathi N	CompTIA.CertMaster Learn for ITF +	10.May.20
320.	Mr Rajeev R	Coursera . Programming for Everybody	10.May.20
321.	Dr Sumathi N	Coursera . AI for Everyone	11.May.20
322.	Mr Rajeev R	Spoken Tutorial . R Programming	11.May.20
323.	Dr Sumathi N	Coursera . Data Scientist Toolbox	12.May.20
324.	Mrs Vidhya B Mr Karthik S Mrs Kiruthika S Mr Sunil Samson A Mr Rajeev R	Spoken Tutorial . Python 3.4.3	12.May.20
325.	Mrs Vidhya B	Spoken Tutorial . Moodle Test for Teachers	12.May.20
326.	Mr Rajeev R	Coursera . Big Data Integration and Processing	12.May.20
327.	Mr Karthik S	Courseta : Big Data integration and Processing CompTIA.CertMaster Learn for ITF +	15.May.20
328.	Dr Deepa C	Coursera . Write Professional E.Mails in English	21.May.20
329.	Mrs Vidhya B	Coursera . AI for Everyone	23.May.20
330.	Mr Karthik S	Coursera . Technical Support Funcamentals	23.May.20
331.	Dr Sumathi N	Coursera . Science of Well Being	24.May.20
332.	Dr Deepa C	Coursera . Fundamentals of Network Communication	25.May.20
333.	Mr Karthik S	Coursera . AI for Everyone	26.May.20
334.	Mr Karthik S	Coursera . Programming for Everybody	26.May.20
335.	Mr Rajeev R	Coursera . Create a Business Marketing Brand kit using Canva	26.May.20
336.	Mr Rajeev R	Coursera . R Programming	27.May.20
337.	Dr Deepa C Mr Karthik	Coursera . AI for Everyone	28.May.20
338.	Mr Rajeev R	Coursera . Positive Pshycology	29.May.20
339.	Mrs Vidhya B	Coursera . Technical Support Funcamentals	29.May.20
340.	Mrs Kiruthika S	Coursera . AI for Everyone	26.May.20
341.	Dr Sumathi N	Cloud Computing Basics (Cloud 101)	30.May.20
342.	Mr Sunil Samson A Mrs Kiruthika S	Faculty Development Program . IoT Application using TI CC3200	13- 14.08.2019
343.	Mrs Kiruthika S	Faculty Development Program . Distruptive Technologies and Inculcating Life Skills	15.Oct.19
344.	Dr Sumathi N	Faculty Development Program . Artificial Intelligence and Machine Learning	05-06.03.2020
345.	Dr Sumathi N Dr Deepa C Mrs Vidhya B Mrs Kiruthika S Mr Karthik S	Faculty Development Program. Quality Initiative in Higher Education	13-20.04.2020
346.	Dr Sumathi N	Faculty Development Program . Virtual Teaching	20- 21.04.2020
347.	Dr Sumathi N Dr Deepa C	Faculty Development Program . Maanaging Online Classes and CoCreating MOOCs	20- 06.05.2020
	Mrs Vidhya B		



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240	Mr Karthik S	F. I. D. I	07.10.05.2020
348.	Dr Deepa C	Faculty Development Programv. Research Funding Projects and IPR	07-10.05.2020
349.	Dr Deepa C	Faculty Development Program. Improve Research Visibility. Impacts and Metrics	11- 13.05.2020
350.	Mr Sunil Samson A	Faculty Development Program. Impact of Education Post COVID19	11- 16.05.2020
351.	Mrs Vidhya B	Faculty Development Program. Computational Intelligence	12- 15.05.2020
352.	,	Faculty Development Program. Augmented Reality and Virtual	15.May.20
	Mrs Kiruthika S	Reality	·
353.	Dr Deepa C	Faculty Development Program. Where Technology meets Business. Industry 4.0	17.May.20
354.	Dr Deepa C	Faculty Development Program. Principles of Management	18- 22.05.2020
355.	Mrs Kiruthika S	Faculty Development Program. Research Prospects and Promises of	19- 22.05.2020
	Mrs Vidhya B	Deep Learning	
356.	· ·	Faculty Development Program . Effective Learning and Teaching	19- 25.05.2020
	Mrs Kiruthika S	Methods of Business Practices	
357.	Dr Sumathi N	Faculty Development Program . Uncovering Piazza for Effective	20.May.20
337.	Mrs Vidhya B	Teaching	20.1 v1a y.20
	Mrs Kiruthika S	reaching	
358.		Faculty Development Program . Data Science Research	21.May.20
	Mrs Kiruthika S	Opportunites	
359.		Faculty Development Program . RPA and its Allied Machine	23.May.20
	Mrs Vidhya B	Learning Techniques	-
360.		Faculty Development Program . Computer Intelligence in Digital	23- 26. 05.2020
	Dr Deepa C	Era	
361.		Faculty Development Program . Fundamentals of Machine Learning	25- 30.05.2020
2.52	Dr Deepa C	(ICTACT)	26.04.06.2020
362.	Mas Vimithiles C	Faculty Development Program . Data Science for Bio Medical	26- 01.06.2020
363.	Mrs Kiruthika S	Application Faculty Development Program . Future Automativa Industry and	27.May.20
303.	Mrs Vidhya B	Challenges	27.Way.20
364.	Mr Sunil Samson A	Faculty Development Program . Power to Perform	03- 09.06.2019
	Mrs Kiruthika S	2 www.y 2 w w v v v v v v v v v v v v v v v v v	05 03.00.2013
365.		Online Training Program . Cloud Computing and its Relevance in	11-15.05.2020
	Dr Deepa C	2020	
366.	Mrs Vidhya B	ShortTerm Training Program . Python Beginners Tutorial	11-17.05.2020
367.	Dr Sumathi N	Webinar . The Power of Blockchain and Its Application	25.Apr.20
368.	Dr Deepa C	Webinar . Leading in LUCA World	20-24.04.2020
369.			28.04.2020 to
270	Mr Rajeev R	Webinar . Promote Innovation, IPR, Entrepreneurship among HEI	22.05.2020
370.	Ma V anth:1- C	Webinar . How to be a Successful Instructional Designer in	05.06.2020
371.	Mr Karthik S Mr Rajeev R	e.Learning Webinar . India First Leadership Talk with Prof DP Singh	05.06.2020 09.05.20
372.	Dr Sumathi N	Webinar . The future of Skills education, Employment and	09.03.20
312.	Mr Rajeev R	Entrepreneurship	11-15.05.2020
373.	Mr Rajeev R	Webinar . Leadership Talk	16.May.20
374.	Mr Karthik S	Webinar. Data Science	16.May.20
375.	Dr Sumathi N	John Dum Solohoo	10.1414y.20
	Mrs Kiruthika S	Webinar . Future Tech 2020 (ICTACT)	18-23.05.2020
376.	Dr Sumathi N	Webinar . Enhancing IT Skills during Quarintine	18- 23.05.2020
377.	Mrs Vidhya B	Webinar. Introduction to Service Design	19.May.20
378.	Mrs Vidhya B	Webinar . Skilling India Workforce on Cyber Range	21.May.20
379.	Dr Deepa C	Webinar . Internet of Things	22.May.20
380.	Mrs Vidhya B	Webinar . Integration of Game Application in Classroom Teaching	23.May.20
381.	Mrs Vidhya B	Webinar . Introduction to Agile and Scrum Methodology	23.May.20
382.	Mrs Kiruthika S	Webinar . Introduction to Digital Transformation	23.May.20
383.			23.05.2020 to
	Dr Deepa C	Webinar . Machine Learning and Artificial Intelligence	27.05.2020



384.	Mrs Kiruthika S	Webinar . Image Analytics and Processing	25.May.20
385.	Dr Deepa C	Webinar . Digital Transformation	25.May.20
386.	Mr Rajeev R	Webinar . Accelerating Industry 4.0	25-29.05.2020
	Mrs Kiruthika S		
	Mr Sunil Samson A		
	Dr Sumathi N		
387.	Dr Sumathi N		
	Dr Deepa C	Webinar . The Future is here now (ICTACT)	27-01.05.2020
388.		Webinar . The Realtime Simulation of Industry for Ecosystem for	
	Dr Deepa C	Manufacturing	29.May.20
389.	Mrs Kiruthika S	Webinar . Data Visualization	30.May.20
390.	Dr Deepa C	Webinar . Blockchain Demystified	30.May.20
391.	Dr Deepa C	Webinar . Research and Innovation to Lead Smart World	30.May.20
392.	Mrs Kiruthika S	E.Quiz . Research Methodology	26.May.20
393.	Dr Sumathi N	Workshop . Teaching Beyond Curriculum	24-30.04.2020

STUDENTS' PARTTICIPATION IN NEAR BY COLLEGES/UNIVERSITY

EVENTS	PLACE OF PROGRAMME
Conference / Seminars	 Nirmala College (12 students) PSG College of Arts and Science (8 students) Krishna College of Arts and Science (II UG BT, 8 students) Hindustan College of Arts and Science (II UG and III UG BT; 19 students) Karapagam Academy of Higher Education (12 students; III UG BT) PSGR Krishnammal College of Arts and Science College (3 students) RVS College of Arts and Science (6 students; III UG) Tamil Nadu Agricultural University, Coimbatore (5 students) Bharathiar University (4 students)
Workshop/Training	 Nehru Arts and Science College (4 students from III UG BT) Hindustan College of Arts and Science (II UG and III UG BT; 19 students) Sri Narayana guru College (II UG and III UG BT; 12 students) Work shop on Algal Biotech, Kongunadu Arts & Science College, Coimbatore (III UG – 08 students)

OUTCOME

- Learnt the method of cultivation and management of apiculture techniques
- Learnt technological application of algae and their derivatives to make or modify products or processes for specific use
- Explored the complex microbial interactions in Microbes and health



ANNEXURE - IV

New Courses / Practicals introduced

	Theory papers	Laboratory Courses
Biotechnology	 Biostatistics Toxicology Biomedical Instrumentation Applied Biotechnology Marine Biotechnology Office Automation and ANSI C 	 Lab in Office Automation and ANSI C Lab in Biostatistics Lab in Biomedical Instrumentation
Computer Science- Information technology	 Java Programming with Bio-Perl Web Technology with Bio Computing 	 C Programming and Biocomputing Lab Object Oriented Programming and Biocomputing Lab Java Programming with Bio-Perl Lab Web Technology with Bio Computing Lab
Electronics	 Arduino programming Biomedical instrumentation Electronic design and automation 	 Components and network analysis Electronic devices Electronic principles and circuits Integrated circuits 8051 microcontroller Modern communication VLSI system design using VHDL programming



ANNEXURE – V Patents

S.	Name of the	Title	Patent File	Stat	tus
No.	Applicant/Co-				
	Applicant			Published	Granted
1	R. Subashkumar	Bio feed for	202141046236	Published	-
		aquaculture			
2	R. Subashkumar	A process for	202141049992	Published	FER
		extraction of			
		copper oxide			
		nanoparticles			
		using green			
		synthesis			

Publications

S. No.	Publications Publication Details (in IEEE format)	Name of Journal. Vol,	H-
		Page	Index
	BIOTECHNOLOGY		
1.	Shanmugapriya K, Subramanian P, Boomi P, Subashkumar R,	Journal of Drug Delivery	38
	Ravikumar S Thayumanavan Tha. An eco-friendly Gnaphalium	Science and Technology,	IF -
	polycaulon mediated silver nanoparticles: Synthesis,	2021, 61, 102202.	2.69
	characterization, antimicrobial, wound healing and drug release studies.		
2	Sankar M, Ramachandran B, Pandi B, Mutharasappan N,	Frontiers in Molecular	37
2	Ramasamy V, Prabu PG, Gowrishankar S, Wang Y,	Biosciences July 2021	5,246
	Muniyandai B, Subashkumar R, Chandrasekaran B, Bayan MF,	1-11 Volume 8	3,240
	Jeyaraman J, Halliah GP and Ebenezer SK Biotechnology	637122	
	Jeyaraman 3, Haman Gr and Ebenezer SK Biotechnology	03/122	
	In silico Screening of Natural Phytocompounds Towards		
	Identification of Potential Lead Compounds to Treat COVID-19		
4.	Ramanatha S., N. Rathika, D. Padmanabhan, A. Durairajan, S.P.	ACS Omega. Vol-5(1),	Scopus
	Selvin, S. Lynda, S. Kavitha and S. Vasanthakumar, Eco-	2020, 158-169,	•
	friendly synthesis of CRGO and CRGO/SnO2 nanocompisites		
	for photocatalytic degradation of methylation green dye.		
5.	Helan Soundra Rani M, Siddharth RV, MAPK protein response	International Journal of	WOS
	to Nanoplastics stress tolerance reported in Halophilic fungi -	Research and Analytical	
	Emericella nidulans.	Reviews. Vol-7 (4),	
		2020, 795-804	
6	Nishu Sekar, Radhika Samak, Shreya Patil, Neha Ghorpade &	Indian Journal of	Scopus
	Valsala Gopalakrishnan Abilash, Association of	Experimental Biology.	
	methylenetetrahydrofolate reductase C677T gene	Vol-58, 2020, 493-497	
	polymorphism and polycystic ovary syndrome in the South		
	Indian cohort.		
7	Deivasigamani M, Kannan N, Nishu Sekar, Lakshmanan H.P,	Regulatory Toxicology	Scopus
	Safety assessment of ethanolic root extract of Zaleya decandra	and Pharmacology. Vol-	
	(EEZD) in Wistar rats.	17, 2020, 1-12,	



	M Helan Soundra Rani, M Kalaiselvam, EG Wesely, "in vitro	Vol.12, Issue 1, PP- 242	UGC
	cytotoxic potential of Halophilic Black Yeast – Aureobasidium	– 247, March 2021 –	CARE
	pullulans against Human Breast Carcinoma Cell Lines",		
8.	Doraisamy Gandhiraj, Edward Gnanaraj Wesely, Michael Helan	An Ethnopharmacology	UGC
	Soundra Rani, Arulselvan Palanisamy, S. Sahanapriya, M.	approach. 12(4): 01 - 07.	CARE
	Rajasekara Pandian. 2021. Eradication effects of Citrus hystrix		
	(Kaffir lime) against Methicillin resistant Staphylococcus aureus		
	_		
9.	Palani Rupa, Edward Gnanaraj Wesely, Albert Hannah	Cassava 11(5): 94 -100.	
	Selvakumari and Michael Helan Soundra Rani. 2021.	WoS	
	Ethnopharmacological efficiency of Andrographis paniculata		
	against Tuber Rot Disease of Manihot esculenta.		
	ELECTRONICS		
10.	Thamarai Selvan M "Performance and Area Overhead	GIS Science Journal,	UGC
	Optimization using FIFO Routing Technique in FPGA"	Vol. 23 Issue 04, PP	Care
		705-709, Vol. 23 Issue	
		04 –	
11.	Sidharthan V "High speed, Low speed and area efficient using	Kala Sarovar , Vol. 4, 5,	UGC
	MAC"	PP 178-183, Jan-Mar	Care
		2021	
12.	Prasannakumar M , Dr. R. Thangavel "Implementation of Carry	Kala Sarovar Vol. 24	UGC
	select adder-based Vedic multiplier for minimizing the path	Issue 1,PP 157-162, Jan-	Care
	delay and to increase the efficiency of the Processor"	Mar 2021	
13.	Ashok Kumar K, Mr. Ramesh A P and Mrs. Indira S "College	Kala Sarovar Vol. 24,1,	UGC
	Bus Tracking System Using Wi-Fi/GSM Using Mobile (IoT)	168-170, Jan-Mar 2021	Care
14.	Ramesh A P, Mr. Ashok Kumar K and Mrs. Indira S "Water	Kala Sarovar Vol. 24 1,	UGC
	quality Monitoring system using Arduino IoT"	6-9, Jan-Mar 2021	Care
15	Indira S "A Review article on Performance of Stepper Motor in	Compliance Engineering	UGC
	Biomedical Application"	journal, Vol. 11. 9, 563-	Care
		567, September 2020	
16	Thamarai Selvan M "Studies of Precursor Volume Effect on The	Kala Sarovar Vol. 23 04,	UGC
	Properties of Copper Oxide Thin Films Synthesized by Jnsp	9-14, Oct-Dec 2020	Care
	Technique"		
1=	Computer Science – Information Techn		1100
17	S Prahadeeshwaran, G Maria Priscilla, "Proposed Hybrid	Journal of Engineering	UGC
	Elephant herding optimization approach for extend network life	sciences, Vol.11, Issue.6,	Care
10	time in wireless sensor networks",	PP-655-666, June 2020	HCC
18	Kavitha P "A Productive Video Coding Structure for Video	Compliance Engineering	UGC
	Compression using Compressed Sensing"	Journal, Vol 11, Issue	Care
		12, PP-201-205, Dec	
10		2020	HCC
19	S Govindaraju, "The study of content-based image retrieval	Journal of the Maharaja	UGC
	systems with semantic space reduction analysis	Sayajirao University of	Care
		Baroda, Vol.54, Issue 2,	
		PP-140-148, Nov 2020	



20	S Govindaraju, "Enhanced SVM Algorithm based on super	Sambodhi Journal,	UGC
	pixels for diabetes recognition",	Vol.43, Issue 4, PP-43-	Care
		47, December 2020	
21	M.Praneesh, "Novel Approach for Analysis of Face	International Journal	UGC
	Recognition using Stereo Matching Algorithm	Machine Learning and	Care
		Networked Collaborative	
		Engineering, Vol.04,.y3,	
		PP-101-108, 2020.	
22	M Praneesh, "Electroencephalogram Signal Analysis for Brain	International Research	UGC
	Computer Interface System: Methods Techniques and	Journal of Modernization	Care
	Applications",	in Engineering	
		Technology and Science,	
		Vol.02, Issue.08, ISSN:	
		2582-5208, August 2020	
23	Devibala Subramanian, Dr R Ravichandran, "Predictive	International Journal of	UGC
	Analysis by studying Customer Behaviour and Tools for	All Research Education	Care
	Framing and Automation Strategies to Avoid Customer Churn	and Scientific Methods,	
		Vol.8, Issue.12, PP-585-	
		591, Dec 2020.	
24	Arthi R, "Detection and Classification of Leukocytes in Bone	International Journal of	UGC
	Marrow Images Using ARTMAP Neural Network",	Computer Sciences and	Care
		Engineering, Vol.8,.10,	
		Oct 2020	
25	S Sathyanarayanan, Dr. Anna Saro Vijendran, "Hybrid Deep	International Journal of	Scopus
	Learning and Efficient Segmentation for Multiple Object	Pharmaceutical	
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		4 PP-3974-3984, Oct -	
		Dec 2020	
26	S <u>Prahadeeshwaran,</u> G Maria Priscilla," A Hybrid Elephant	EAI Endorsed	Scopus
	Optimization Algorithm-based Cluster Head Selection to Extend	<u>Transactions on Energy</u>	
	Network Lifetime in Wireless Sensor Networks (WSNs)",	Web, Journal of	
		Endorsed Transactions	
		on Energy Web	
		(Scopus)" Vol.8,	
		Issue.31, PP-1-12	
27	Prahadeeshwaran, S, G Maria Priscilla" An energy efficient	Journal of Green	Scopus
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	enhanced PSO algorithm",	Vol.10, Issue.11, PP-	
		10879-10899, November	
		2020	
28	M. Praneesh, R Annamalai Saravanan, "Deep Stack Neural	EAI/Springer	Scopus
	networks-based Learning Model for Fault Detection and Classification in Sensor Data", -	<u>Innovations in</u>	
	Classification in School Data, -	Communication and	
		<u>Computing</u> ,101–110.	



29	M Praneesh, Dr D Napoleon, "Comparative Analysis of	Journal of Xi'an	Scopus
	Classifying Remote Sensing Images for Jensen Distance based	University of	
	Affinity Propagation Algorithm",	Architecture &	
		Technology, Vol. XII,	
		Issue. VII, PP-522-527,	
		July 2020	
30	N Mahendiran, C Deepa, A Comprehensive Analysis on Image	Computer Science,-1-12,	Scopus
	Encryption and Compression Techniques with the Assessment of Performance Evaluation Metrics	January 2021	
31	Swathine K, Dr N Sumathi. "Design of the Requirement	Design Engineering,	Scopus
	Traceability Matrix with Color	Issue 5, pp 1073-1091,	
	Code Prioritization",	Jan 2021	
32	Swathine K, Dr. N. Sumathi "An Adaptive Optimization Based Meta-Heuristic Approach for Tracing Software Requirements",	Materials Today: Proceeding (Elsevier), January 2021.	Scopus

Book chapter

Book enapter						
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R.	An Insight of	Computation in	2021	97811-	263-	Scrivener
Subashkumar	Protein Structure	Bioinformatics:		19654711	276	Publishing
	Predictions Using	Multidisciplinary				LLC
	Homology	Applications				
	Modeling					

