Incubation and Technology Transfer Center

Aim	To provide an effective and facilitating bridge between Alagappa University's Research Laboratories/Facilities and National Research
Aim	Institutes/Industry
	To provide technical Expertise/Skills/Guidance

Objectives	Optimizing Technological Research projects for facilitating collaborative projects Access/Services to common facilities within the University
	Innovative problem solving consultancy with Industry
	Support services for start-up companies for a stipulated period
	Technology transfer trainings at the Specialized facilities

Name	Designation & Dept./Division/College.	Status
Faculty	Dr. K. Balamurugan Professor, Department of Biotechnology	Coordinator
Faculty	Dr. B. Dharmalingam Professor, Alagappa Institute of Skill Development	Member
Faculty	Dr. J. Wilson Assistant Professor, Department of Bioelectronics and Biosensors	Member
Faculty	Dr. M. Ayisha Millath Assistant Professor, Alagappa Institute of Management	Member
Student Representative	Ms. Sharika R Research Scholar, Department of Biotechnology	Member

Department level Meetings to bring out lists of available technologies/skills Interaction with Selective Faculties Interaction with visiting Scientists from India and abroad Generation of Data Bank- Department wise for National Research Development Corporation to include in the "National Technology Data Bank" ITT centre Coordinator's visit to Industries at Chennai and Bangalore Signed MoA with ITC LSTC Ltd, Bangalore with a Budget for Rs. 82.35 Lakhs. Already received the First Year amount of Rs. 31.41 lakhs for the Department of Biotechnology Short-listed Industries for sending Second Year PG students for 2 to 3 months trainings Reintroduction of IUCN red listed vulnerable medicinal plant at Western Ghats indicating the transfer of laboratory technology to the field trails Steps taken to have collaborative projects with National Institute of Ocean Technology (NIOT), Chennai Central Food Technological Research Institute (CFTRI), Mysore National Institute of Pharmaceutical Education and Research (NIPER), Kolkata Processing of MoU with NIPER, Kolkata for collaborative research activities on Teaching and Research Provided Technology transfer training to Scientists from NIOT and CFTRI at Science Campus Preparing application to submit to NITI Aayog (National Institution for Transforming India), Govt. of India to upgrade established Incubation centre to 'ATAL INCUBATION CENTRE' To be recognized in National Level steps taken to include one lab from each Science Department under the Summer Research Fellowship programme of Indian Academy of Sciences (IASc-INSA-NASI) Provided training to ACCET Staff members and outgoing B.E. students at Alagappa Institute of Skill Development center Provided technical trainings to PG students of affiliated college of Madurai Kamaraj University at the Department of Animal Health and Management Provided training in Food Processing at the Department of Women's Studies Provided Technology transfer training to Research Scholars from Thappar University, Pattiala, Punjab at the Department of Biotechnology Collaborative projects initiation by the Department of Bioinformatics between ALU and Indian Institute of Science, Bangalore & ALU and Indian Institute of Technology Madras. Submission of collaborative research projects from Department of Bioinformatics along with Sri Ramachandra University-Chennai, International Centre for Genetic Engineering and Biotechnology-New Delhi, Indian Institute of Technology – Guwahati, National Chemical Laboratory-Pune and CDRI-Lucknow. Once in a year Technology Transfer Training workshops in association with

M/s. Schrodinger Inc, USA for a minimum 100 participants from various

reputed Institutes/Universities at the Department of Bioinformatics.

Range of Activities

Activities Carried out by the Alagappa University on

Technology Transfer

Reintroduction of IUCN red listed vulnerable medicinal shrub Nilgirianthusciliatus into its natural habitat, the Nilgiris - A success story from Alagappa University

Dr.M.Ramesh, Research Scholar R.Rameshkumar and Dr.S.Karutha Pandian, Professor and Head of Department of Biotechnology developed 1000 plants of vulnerable and IUCN Red Listed medicinal shrub *Nilgirianthusciliatus* through micropropagation technique in the laboratory by receiving research grant from Department of Science and Technology (DST), New Delhi. On 28.03.2016, Prof.S.Subbiah, Vice – Chancellor of Alagappa University and Registrar i/c Dr. V. Balachandran handed over these 1000 to Mr. V.Asokan, Regional Manager, TAFCORN, Karaikudi and Forester Mr. R.Thiyagarajan for plantation into its natural habitat,

The Nilgiris.









On 28.03.2016, Prof.S.Subbiah, Vice – Chancellor of Alagappa University and Registrar i/c Dr. V. Balachandran handed over these 1000 plants to Mr. V. Asokan, Regional Manager, TAFCORN, Karaikudi and Forester Mr. R. Thiyagarajan for plantation into its natural habitat, The Nilgiris (**Fig. a & b**). These plantlets were transported to The Nilgiris and handed over to the Foresters of the Tamil Nadu Forest Department, District Forest Office, South Division, The Nilgiris (**Fig. c**).

<u>Technology Transfer/Trainings to other Research</u> Institutions

Technology transfer training at the Department of Biotechnology:



A. Dr. Shiburaj S (left), Senior Scientist from Microbiology Division, JNTBGRI, Palode, Trivandram, Kerala - 695 562 visited Department of Biotechnology, Alagappa University during 27 June to 05 July 2016 for learning Genomic DNA library construction technology. B. Dr. Ganesh Kumar A (Project Scientist-I) and Dr. Venkatesh S (Research Associate) (right) from Marine Biotechnology Department of NIOT, Pallikaranai, Chennai - 600 100 visited Science Campus, Alagappa University during 17 June to 02 July 2016 and had discussion with Prof. K. Balamurugan, Coordinator, Incubation and Technology Transfer center- Alagappa University for initiating collaborative network with ongoing Development of Potential Drugs from Ocean (DPDO) [Deep Sea Microbiology project] of NIOT with Alagappa University. C. Dr. Anitha J, Assistant Professor, Department of Bioinformatics, Karpagam University, Coimbatore had undertaken 60 days training under the Indian Academy of Sciences Summer Research Fellowship Programme (IASc-INSA-NASI Summer Research Fellowship) at the Department of Biotechnology, Alagappa University during 02 May 2016 to 30 July 2016. D. Mr. Ulaganathan S, Second Year M. Sc., Life Sciences, School of Life Sciences, Bharathidasan University had undertaken 56 days training under the Indian Academy of Sciences Summer Research Fellowship Programme (IASc-INSA-NASI Summer Research Fellowship) at the Department of Biotechnology, Alagappa University during 10 May 2016 to 05 July 2016. E. Dr. Balasubramani, Professor, Department of Vegetable Crops, Horticultural College and Research Institute, Tamilnadu Agricultural University, Periyakulam 625 604 visited Science Campus, Alagappa University along with Students for learning C. elegans related basic techniques on 10 May 2016. F. Mr. Vivek Sharma and Mr. Kulwinder Sran, Research Scholars from Department of Biotechnology, Thapar University, Patiala, Punjab visited Department of Biotechnology for learning C. elegans related experiments and to analyse their biopolymer samples from 21 Oct 2016 to 10 November 2016.

Industrial collaborative project initiative at the Department of Biotechnology:



A and B: Mr. Sumeet Malhotra and his team from ITC –limited, Bangalore visited Department of Biotechnology, Alagappa University and had discussion with Prof. S. Karutha Pandian, Head, Department of Biotechnology and Prof. K. Balamurugan, Coordinator, Incubation and Technology Transfer Center for initiating collaborative project with Alagappa University on 28 April 2016. (Subsequently an MoA has been signed with Alagappa University on 29 June 2016 with an total budget of Rs. 82.35 lakhs). C and D: Dr. M. K. Chandrababu, Senior Scientist from Center Leather Research Technology, Guindy, Chennai having discussion with Prof. S. Karutha Pandian, Head of the Department of Biotechnology and Prof. K. Balamurugan, Coordinator: Incubation and Technology Transfer Centre, Alagappa University on 28.04.2016 in connection with transferring laboratory techniques and products to the Industrial partners. E and F: Dr. Godfred Ponraj, Senior General Manager- Marketing, TIL Biosciences [Animal Health Division of Tablets (India) Ltd.], Chennai 600 008) visited the Science Campus on 03 Dec 2015 (Left) and 02 June 2016 (Right) and had discussion with Dr. A. Veeraravi, Associate Professor, Department of Biotechnology for collaborative project. He also expressed his willingness to have the Science Department PG students during their summer vaccation for two months training at the Industry for the benefit of the Faculty of Science Students of Alagappa University. The criteria for the same may be framed in due course of time by the Incubation and Technology Transfer Centre, Alagappa University.

Technology Transfer Training at the Department of Bioinformatics

18th - 21st Feb, 2014





19th - 22nd Feb. 2013

A. Dr. Arockiasamy Arulandu (Group Leader, Membrane Protein Biology Group, ICGEB-New Delhi) along with his student visited the Department of Bioinformatics for collaborative research discussion on 6th November 2016. **B.** Students (Ms. M. Pavithra, Ms. G. Rubha Shri and Ms. R. Yuva Devi) from URCW-Karaikudi have undergone training from 15th April to 31st May 2016 in Structural Biology Lab at the Department of Bioinformatics. **C.** Ms. Saritha from REC-Chennai undergoing six months (from 10th August 2016 onwards) training in the field of Structural Biology at the Department of Bioinformatics.

List of beneficiaries visited Department of Bioinformatics for Research Training and technical exposure during the period 2011 – 16.

S.	Name	Institution	Duration
No			
1.	Ms. S. Yogapriya	71 111 111	cond as coth a cota
2.	Ms. B. Dhivya	Bharathidasan University	$22^{\text{nd}} \text{ May} - 30^{\text{th}} \text{ Aug}, 2012$
3.	Ms. M. Nishadevi		10 th Dec 2011–30 th Apr
4.	Ms. K. Rajakumari		2012
5.	Mr. N. Saravanakumar	PSR Engineering College	10 th Dec 2011–31 st Mar
6.	Mr. M. G. Karthick		2012
7.	Ms. M. Ranjani		0181 7 1 2181 15 2012
8.	Ms. K. Nalini		01^{st} Feb -31^{st} May, 2012
9.	Ms. R. Arul Salomee Kamalabi	Bharathidasan University	07 th Feb – 31 st May, 2012
10.	Ms. P. Ilakkiya		07 th Feb – 31 st July, 2012
11.	Mr. RY. Ramanathan	SRM University	01 st Nov – 31 st Dec, 2012
12.	Ms. J. Shivashankari	SASTRA University	27 th Dec 2012 – 30 th Apr 2013
13.	Dr. Prema	Govt. Arts and Science College for Men-Kumbakonam	23 rd May 2013
14.	Ms. M. Gowri	Sri Ramachandra University	$17^{\text{th}} - 30^{\text{th}}$ Jul 2013
15.	Mr. U. Dinesh Babu	SASTRA University	$14^{th} - 30^{th}$ Aug 2013
16.	Dr. N. Ramesh Kannan	Srimad Andavan Arts and Science College	21 st - 31 st Jan 2014
17.	Mr. S. Ramkumar	Bharathiar University	$21^{st} - 30^{th}$ Aug 2014
18.	Ms. Mathangi Ravi	Sri Ramachandra University	21 st – 27 th Aug 2014
19.	Ms. Ritu	SRM University	$17^{\text{th}} - 23^{\text{rd}} \text{ Mar } 2015$
20.	Ms. M. Pavithra	Dr. Umyal Ramanathan College for	
21.	Ms. G. Rubha Shri	Women	$15^{th} Apr - 31^{st} May 2016$
22.	Ms. R. Yuva Devi		
23.	Ms. P. Poornima Devi	Seethalakshmi Ramaswamni College	$02^{\rm nd} - 22^{\rm nd}$ Feb 2016
24.	Ms. D. Pradiba	Kamaraj College of Engineering and Technology	30 th Mar – 1 st May 2016
25.	Ms. Rumila NishaFelicita	Lady Doak College	$20^{\text{th}} - 22^{\text{nd}} \text{ Apr } 2016$
26.	Mr. Rahul Kanumuri	Indian Institute of Technology-	18 th – 31 st May 2016
27.	Mr. Arun Prasad	Madras	Ť
28.	Ms. S. Sudharsana	VIT University	2 nd – 7 th Jun 2016
29.	Mr. Biswath Gorey	SASTRA University	14 th Jul 2016
30.	R. Radeesh Kumari	N. I. University	14 th – 24 th Jul 2016
31.	Mr. Chandru	Madras University	01 st – 05 th Aug 2016
32.	Mr. A. Dhanasezhian	University of Madras	$02^{\rm nd} - 06^{\rm th} {\rm Aug} 2016$
33.	Ms. P. Saritha	Rajalakshmi Engineering College	10 th Aug 2016– Till date
34.	Ms. K. Sri Nava Janani	rajaiaksiiiii Liigiiieeiiiig Coilege	10 th Aug – 03 rd Sep 2016
35.	Ms. V. Poornima	Bharathiar University	17 th - 28 th Aug 2016
36.	Ms. V. Sharmila	-	17 - 20 Aug 2010
37.	Mr. Muthu Sankar	International Centre for Genetic Engineering and Biotechnology	31 st Oct 2016 – Till date

Technology Transfer Training on Food Processing at the Department of Women Studies



Provided training in Food Processing at the Department of Women's Studies (sponsored by HRD scheme of National Mission on Food Processing. Ministry of Food Processing Industries, Government of India) during February- May 2014 for the Women entrepreneurs to start new ventures in food processing. Hands on training classes were conducted on food grains like millets, Fruit squash, Jam, Variety of Pickles, Preparation of masala powders, etc., In addition, field visits were arranged by the Department of Women Studies for the trainees to get exposed with different food processing centers.

Technology Transfer Training on Mechatronics at the Alagappa Institute of Skill Development center



Training on "Mechatronics" to ACCET Staff members and outgoing B.E. students at the Alagappa Institute of Skill Development center, Alagappa University starting from May 2015 for specific periods by collecting course fees from the TEQIP funds of Department of Technical Education, Tamilnadu.

Technology Transfer Training at Department of Animal Health and Management



Technical Trainings to the PG students from Ayya Nadar Janaki Ammal College, Sivakasi affiliated to Madurai Kamaraj University on Basic microbiology, Molecular Biology, Immunology and Aquatic animals culture and maintenance at the Department of Animal Health and Management, Alagappa university during 01.02.2016 to 31.04.2016.

Technology Transfer training at the Alagappa Institute of Management



Short-term certificate course was conducted on "Webdesigning, Image Editing & Office Automation Skills" for 15-days (02-16 May 2014) at Computer Centre, Alagappa Institute of Management. 28 participants – Diploma, ITI students got Training on Web page creation, Hyperlink creation, Photoshop editing, Multilayer Image creation and Coreldraw. During 12-27 November 2015 another short-term certificate course "Animation & Graphics Skills" was conducted on Graphics, Corel draw, 2D & 3D Animation for 16-days.

Technology Transfer by the Department of Bank Management

- Public sector Banks utilized the students of Department of Bank Management for 45 days under their 'Internships Program'.
- Periodical visits by Bankers and Insurers to the Department for two-way learning process.

Technology Transfer Training by the Department of Nanoscience and Technology

 Dr. K. Amudhavalli, Associate Professor, Dpet of Physics, VOC college, Tuticorin visited Department of Nano Science and Technology for performing thin film coating experiments using the CH instrument and had training at Dr. P. Shakkthivel's lab during the month of January 2013.

Technology Transfer Training by the Department of Bioelectronics and Biosensors

 Ms. K. S. Paripoorani and Ms. T. Valliammai from SRM University [B. Tech (Biotechnology)], Chennai visited Department of Bioelectronics and Biosensors for technology transfer training in the area of Biosensors during the Nov-Dec 2013.

Expertise Available with Various Departments of Alagappa University

Incubation and Technology Transfer Center

S.	Name of the	Available Technology/ Skills	Funding	Routine/	Access/	Consultation for
No.	Department/ Faculty		Agency, if any involved	Novel	Services	Industry
1	Taconty	Rapid & Accurate detection of Group A Streptococcus through PCR method	-	Novel	Both	Yes
2		Environmental impact monitoring through microbial indicators	-	Novel	Both	Yes
3		Multiplex PCR for Gene expression analysis		Routine	Both	Yes
4		Model system (C. elegans) based active principle analysis		Routine	Both	Yes
5	Biotechnology	Model system (C. elegans) based toxicity analysis		Routine	Both	Yes
6	Bioteciniology	Model system (C. elegans) based genomic and proteomic analysis		Routine	Both	Yes
7		Model system based anti-aging analysis		Routine	Both	Yes
8		Human/Animal Cell culture based analysis		Routine	Both	Yes
9		Production of natural steroids using Plant system		Routine	Both	Yes
10		Plant tissue culture of commercially important plants		Routine	Both	Yes
11		Shrimp farming		Routine	Both	Yes
12		Shrimp Hatchery		Routine	Both	Yes
13		Mass cultivation of Spirullina		Routine	Both	Yes
14		Fin fish seed production		Routine	Both	Yes

15		Ornamental fish culture (marine		Routine	Both	Yes
		and Fresh water)				
16	Biotechnology	Cultivation of Cyanobacteria		Routine	Both	Yes
17	Diotecimiology	Phytochemical Analysis		Routine	Both	Yes
18		Enzyme inhibition Assays		Routine	Both	Yes
19		Biochemical Analysis		Routine	Both	Yes
1.		Waste from Wealth: Bioethanol from Thippi	Salem- Dharmapuri Chamber of Commerce	Novel	Access	New Industry has to be setup
2.		Conducting polymer based primer for A1 structures	DRDL, Hyderabad	Novel		DRDL usage
3.		Monitoring the contents of primer by a simple FT IR method	BHEL, Tiruchirappal i	Novel		BHEL, Tiruchirappalli
4.		Conducting polymer based primer for Iron structures	BHEL, Tiruchirappal i	Novel		BHEL, Tiruchirappalli
5.		Electrochemical treatment of distillery effluent		Novel	Access	Distillery industries
6.	Industrial	Electrochemical treatment of dyehouse effluent		Novel	Access	Dyeing industries
7.	Chemistry	Pt – WO _x / C Nano composite Anode Electrocatalyst for fuel cell application.		Novel	Access (Patent filled)	Fuel cell industries
8.		Pt – WO _x – TiO ₂ / C Nano composite Anode Electrocatalyst for fuel cell application		Novel	Access (Patent filled)	Fuel cell industries

9.		Lithium ion batteries		Novel	Access	Battery industries
10.	1	Electrodeposition technology		Novel	Access	Plating industries
11.		Facemask material with improved bacterial filtration efficiency		Nove1	Access (Patent filled)	Face mask producing industries
12.	1	Military textiles		Nove1	Access	Military
13.	1	Smart Textiles		Novel	Access	Fabric ndustries
14.	Industrial	Electrochemical sensing of pollutants		Novel	Access	Monitoring of pollutants in Industries
15.	22200000	Biofinishing of textiles		Novel	Access	Fabric industries
16.	Chemistry	Antibacterial and antifungal coating on textiles		Nove1	Access	Medical Fabric industries
17.		Host-guest sensing of carcinogenic substances		Novel	Access	Monitoring of carcinogens from industries
18.	1	Lead-acid battery		Nove1	Services	Battery industries
19.	1	Cancer Biomarkers		Nove1	Access	Medical
20.		Photocatalysis		Nove1	Access	Chemical industries
21.		Liquid Crystals		Nove1	Access	Sensor and TV industries
1		Economic evaluation of micro-	Ministry of	Routine	Water	Ministry of
		irrigation system	Agriculture, Government of India, New Delhi		saving; productivity gains; NPV; BCR	Agriculture and other bodies/industries relating to micro-
	Economics and					irrigation
	Rural Development					Ü
2	Kutai Development	Financial viability of micro- irrigation system	Jain Irrigation Systems Ltd., (world 2nd	Routine	Project evaluation	All micro-irrigation manufacturers; lending agencies; Government bodies

			micro- irrigation company) Maharashtra			
3	Economics and	Member of the sub-group of the Committee on Statistics of Agriculture and Allied Sectors	Ministry of Statistics and Programme Implementati on, Government of India, New Delhi	Routine	Water and agriculture data services	Ministries pertaining to agriculture, water and rural development
4	Rural Development	Member of the Working Group on Terms of Trade between the Agriculture and Non-Agriculture Sectors	Ministry of Agriculture, Government of India, New Delhi	Routine	Agriculture trade related services	Ministry of Agriculture; Ministry of commerce and industry; other bodies related to trade in agriculture
5		Water sector analysis	International Water Management Institute, Colombo, Sri Lanka	Routine	Demand and supply of water; indirect impact of irrigation	World Bank; Asian Development Bank; Ministry of Water Resources; Ministry of Agriculture
6		Impact of NREGS on wage rate and welfare	ICRISAT, Hyderabad.	Routine	Socio- economic	Ministry of Rural Development, State

					evaluation of NREGS	departments to agricultur rural develo	e and
1	D4 .	Unidirectional crystal growth	-	Novel	Access	-	
2	Physics	Thin films	-	Novel	Access	-	
1		Protein Purification	Generated funds from Consultancy Academic Projects	Routine	Cloning, Purific (FPLC) and Cry Facilities.		Yes
2		Small molecule and Macro molecular structure elucidation of Human diseases related targets		Routine	Structural and F elucidation.	unctional	Yes
3	Bioinformatics	Lead candidates screening from Marine and Plant sources		Routine	Molecular modeling (Commercial and other open source software) for lead molecules identification.		Yes
4		Identification of novel lead molecules with better therapeutic potential		Routine	Involved trainin students and tea various universi to access	chers from	Yes
5		Molecular modeling and Biologics Drug discovery		Routine	Involved trainin students and tea various universi to access	chers from	Yes

1		Shrimp and Fish disease diagnosis	-	Routine	Access	-
		technology				
2		Fish and Shrimp pathogenic	-	Routine	Access	-
		bacteria identification				
3	Animal Health and	Treatment procedure for shrimp	_	Routine	Access	_
-	Management	diseases		20000	1100000	
4		Active principles from marine		Routine	Access	
, T		plants – Isolation technique	-	Roullie	Access	
			TCO CD	37 4		
1		Non-enzymatic sensor	ICMR	Nove1	Access	Available
		development for diabetic				
		monitoring				
2		DNA sensor development using	DST	Nove1	Access	Available
		thiol monolayer for disease				
		diagnostics				
3	Bioelectronics and	DNA sensors based on conducting	UGC	Nove1	Access	Available
-	Biosensors	polymer	-	1,0,00	1100000	
	Biosensors	polymer				
4		Metal oxide sensor for neuro	BRNS	Nove1	Access	Available
,		transmitter sensing	Didio	110161	Access	Available
		transmitter sensing				
1		Plastic Solar Cells	DST	Nove1	Access	Available
1		Plastic Solar Cells	DSI	Novel	Access	Available
	Nano Science &					
2	Technology	H ₂ gas/ storage	UGC	Novel	Access/	Available
					Services	
3		Paper fillers cathode materials for	NIL	Novel Novel	Access/	Available
		super capacitors Li-ion cells			Services	
		magnetic structures				
4		Plant tissue culture	UGC	Nove1	Access/	Available
					Services	
5		Dye degeneration	NIL	Nove1	Access/	Available
'		Dyc degeneration	TAIL	140761	Services	Available
		35 5 1 1 1 1 1 1 1	2777	77 1		
6		Medicinal plant cultivation	NIL	Nove1	Access/	Available
1					Services	1
1 1						

1						
1 1		Fabrication of dye-sensitized solar cells	-	Nove1	Access	Yes
2	1	Development of eco-friendly	_	Nove1	Access	Yes
2		corrosion protection coatings	_	Novel	Access	103
3		Bio-plastic production from	_	Nove1	Access	Yes
	Energy Science	industrial wastes		110101	1100000	
4	1	Bio-decolourisation of textile	-	Nove1	Access	Yes
		industry effluent and bio-diesel				
		production by micro algae				
1		Seaweed training programme		Routine	Services	Yes
			-			
2		Lab to Land programme - Sea	-	Routine	Services	Yes
		ranching				
3		Crab fattening	-	Routine	Services	Yes
<u> </u>						
4		Open sea farming- Marine		Routine	Services	Yes
_		organisms	- TILL DOOR	D 41	S :	WARGOG
5	Oceanography and	EIA –Studies	WAPCOS	Routine	Services	WAPCOS-
						Govt. India
-	coastal area studies	EIA Chidian CCCD	DCI	Morret		Cont India
6	coastal area studies	EIA -Studies- SSCP	DCI	Nove1	Access	Govt. India
	coastal area studies					
7	coastal area studies	EIA –Studies- SSCP Marine conservation	UNDP-GEF-	Novel Routine	Access Services	UNDP-
	coastal area studies					UNDP- GEF-
7	coastal area studies	Marine conservation	UNDP-GEF- GOMBRT	Routine		UNDP-
	coastal area studies		UNDP-GEF-			UNDP- GEF-
7	coastal area studies	Marine conservation	UNDP-GEF- GOMBRT UGC-MRP	Routine		UNDP- GEF-
7	coastal area studies	Marine conservation SCUBA- Diving	UNDP-GEF- GOMBRT	Routine		UNDP- GEF-
7	Coastal area studies	Marine conservation SCUBA- Diving	UNDP-GEF- GOMBRT UGC-MRP	Routine		UNDP- GEF-
7 8 9		Marine conservation SCUBA- Diving ERADAS-GIS Software	UNDP-GEF- GOMBRT UGC-MRP	Routine	Services	UNDP- GEF- GOMBRT
7 8 9		Marine conservation SCUBA- Diving ERADAS-GIS Software Banking Technology & Inclusive	UNDP-GEF- GOMBRT UGC-MRP	Routine Routine Routine	Services Field Survey &	UNDP- GEF- GOMBRT
7 8 9		Marine conservation SCUBA- Diving ERADAS-GIS Software Banking Technology & Inclusive	UNDP-GEF- GOMBRT UGC-MRP	Routine Routine Routine	Services Field Survey &	UNDP- GEF- GOMBRT Yes (Banking
7 8 9		Marine conservation SCUBA- Diving ERADAS-GIS Software Banking Technology & Inclusive	UNDP-GEF- GOMBRT UGC-MRP	Routine Routine Routine	Services Field Survey &	UNDP- GEF- GOMBRT Yes (Banking sector &

1		E-Com Lab	AICTE	Novel	Ac	ccess	Yes Training
							programs
	Alagappa Institute						for clients
	of Management						like Bank.
							FDP, etc.,
2		EDP Center	AICTE &	Nove1		nology	Yes
			State		Entrepr	eneurship	(For DIC,
			Government		Tra	ining	THC &
							Banks)
1		International Business Expertise			Exim Co	onsultancy	Yes
			-	Novel			(SME
	International						Clients)
2	Business &	Social Economic approach to					Yes
	200000000000000000000000000000000000000	Management	-	Novel	SEAM C	onsultancy	(Society &
	Commerce	(SEAM)					SME
							Clients)
1		Optimizing techniques for	No	Routine and	7	Yes	Yes
		inventory of two commodities		Novel			
2		Stochastic Modeling	No	Routine and		Yes	Yes
				Novel			
3	Mathematics	Integral transforms tool for signal	No	Routine and	3	Yes .	Yes
	Mathematics	and image processing		Nove1			
4		Latex	No	Routine	3	Yes .	Yes
		(A markup language)					
5		Expertise in coaching PG Maths	No	Routine	7	Yes	Yes
		students to get through in					
		competitive examinations					
6		Expertise in functional analysis,	No	Routine		Yes	Yes
		topology and fuzzy mathematics					
1	Alagappa	Assistive Technology Devices for	UGC	Routine	Access	Assistanc	e to special
-	University College	Visual and Hearing Impairment					edv
2	, ,	Physiotherapy Materials	UGC	Routine	Access		hildren with
~	of Education			10000			r disability

Future plan

• <u>'Technology Expo'</u> at Alagappa University [Exhibition of Available Technologies/Skills for Entrepreneurs/Industries/Corporates].