

## **17.3.16 b – Progress against SDG16 - Participation in Government Research**

S. No	Project Title	Name of the PI	Department	Funding Agency	Sanction date	Duration	Amount in lakhs	SDG
1	Smart Textile with Antimicrobial and Water Repellent Properties for Coronavirus - International Project	Dr. S. Hemalatha & Dr. D. Mubarak Ali	Life Sciences	Kasetsart University, Department of Materials Engineering, Thailand	15.10.2020	14 Months	38.00	SDG 3
2	Yoga Module in Lung Inflammation and ALRI	Dr. S. Hemalatha & Mrs. Ranjani	Life Sciences	Department of Science and Technology (DST) - (SATHYAM)	12.10.2020	1 Year	15.00	SDG 3
3	ATAL FDP on 3D Printing & Design	Dr. P.D.Jeyakumar and Dr. Arokia Julius	Mechanical Engineering	All India Council of Technical Education (AICTE)	16.10.2020	-	0.93	SDG 4
4	Continuous Ambient Air Quality Monitoring Station (CAAQMS)	Dr. Vasanthi Padmanabhan & Dr. A.Kaliluthin	Civil Engineering & Estate office	Tamil Nadu Pollution Control Board (TNPCB)	2019-20 (17.06.2020)	3 Years	150.00	SDG 11
5	Modernization and upgradation of Structural Engineering Laboratory – Establishment of Non-Destructive Testing Facility for Concrete (MODROB)	Dr. Vasanthi Padmanabhan & Dr. J. Revathy	Civil Engineering	All India Council of Technical Education (AICTE)	09.01.2020	2 Years	10.00	SDG 7, SDG 9
6	Disaster Mitigation : A shift from disaster management towards disaster preparedness - Short Term Training Program (STTP)	Dr. Vasanthi Padmanabhan & Dr. V.S.Priya	Civil Engineering	All India Council of Technical Education (AICTE)	2020	3 Months	3.00	SDG 11, SDG 13
7	Internet of Things (Everything) - Future Short Term Training Program (STTP)	Dr. S. Revathi & Dr. V. Muthupriya,	Computer Science and Engineering /	All India Council of Technical Education (AICTE)	2020	3 Months	2.00	SDG 4

8	Seismic Performance of Light - Research Promotion Scheme	Dr. J.Revathy & Dr.P.Gajalakshmi	Civil Engineering	All India Council of Technical Education (AICTE)	2020	3 Years	2.00	SDG 7, SDG 12, SDG 13
9	Be the changeTeaching learning process - Short Term Training Program (STTP)	Dr. Nikhat Hamza & Dr. C. Tharini	HR / Electronics and Communication	All India Council of Technical Education (AICTE)	2020	3 Months	3.25	SDG 4
10	Artificial Intelligence and Deep Learning Techniques - Short Term Training Program (STTP)	Dr. G. Kavitha & Dr. P. Latchoumy	Information Technology	All India Council of Technical Education (AICTE)	2020	3 Months	3.00	SDG 4
11	Modernization of RF and Microwave Lab for Signal Quality Measurements in Sub 3GHz - Modernisation and Removal of Obsolescence (MODROB)	Dr. C. Tharini & Mr. A. Ramesh Kumar	Electronics and Communication Engineering	All India Council of Technical Education (AICTE)	2020	3 Years	20.00	SDG 7
12	Skill and Personality Development Program Centre for SC/ST students (SPDC)	Dr. N. Prakash, Dr R. Priyadarshini	Information Technology	All India Council of Technical Education (AICTE)	2020	3 Years	14.68	SDG 1 SDG 5, SDG 10
13	Data Driven Techniques for Business Analytics using R Programming, Python and Tableau - Short Term Training Programme [STTP)	Dr. PANBOLI S	Management Studies	All India Council of Technical Education (AICTE)	21.02.2020	1 Year	2.00	SDG 4
14	Copper smelters and its impact on the health of downstream people, the economic livelihood of its employees, and waste management system. the case of Sterlite Copper in Tuticorin, Tamil Nadu	Dr. Mohamed K	Management	All India Council of Technical Education (AICTE)	2020	2 Years	4.38	SDG 12
15	Bimetallic nanoparticles coated hybrid materials for effective photocatalytic degradation of hazardous dyes in effluent water	Dr. N. Vasimalai & M. Sandhiya Malathi, K. Joyce	Chemistry	Tamil Nadu State Council for Science and Technology (TNSCST)	2020	1 Year	0.075	SDG 6

16	Influence of Bacterial Species on the Durability Performance of Green Concrete for Sustainable Built Environment	Dr. J. Revathy & M. Abdulrahman	Civil Engineering	Tamil Nadu State Council for Science and Technology (TNSCST)	2020	1 Year	0.075	SDG 7
17	Application of Bio medical waste for the development of sustainable concrete	Dr. P. Gajalakshmi & K.N. Krishnaprasad	Civil Engineering	Tamil Nadu State Council for Science and Technology (TNSCST)	2020	1 Year	0.075	SDG 3, SDG 12
18	"Synthesis and Characterization of ZrO <sub>2</sub> Dispersed Ti, Ti-6Al-4V, Ti-6Al-5V, Ti-6Al-7Nb composite"	Dr. R. Karunanithi	Mechanical Engineering	Science and Engineering Research Board (SERB-TARE)	2019	3 Years	18.30	SDG 12
19	Design of Antennas for 5G Applications	Ms.Sivashanmuga Valli	Electronics and Communication Engineering	Science and Engineering Research Board (SERB-TARE)	2019	3 Years	18.30	SDG 9
20	Formulating antibiotic resistance breakers to control multidrug resistant pathogenic bacteria	Dr. S. Hemalatha & Mrs. Ranjani	Life Sciences	Department of Science and Technology (DST) - (WOBS)	2019	3 Years	30.34	SDG 3
21	Supply, Erection, Installation, Commissioning, Operation and Manintenance of Co-Digestion plant for Organic Fraction of Leftover Food waste, Vegetable peels and Fruit peels for Biogas	Dr.T.Harinarayana	Mechanical Engineering	CSIR-Central Leather Research Insititute funded by Department of Science and Technology (CSIR-DST)	2019	2019-20	35.00 (21.70 +13.30 )	SDG 7
22	Bio Incubator Grant (Bio Nest)	Dr. M. Parvez Alam & Dr.S.Hemalatha	CIIC & Life Sciences	Biotechnology Industry Research Assistance Council (BIRAC)	2018	2019-22	240.00	SDG 7
23	Mechanistic anti-tumour activity of vernodaline isolated from centratherum anthelminticum on colorectal cancel cells	Dr. P. Ashok Kumar	Life Sciences	Science and Engineering Research Board (SERB)	2019	2019-22	18.30	SDG 3

24	Light induced process of Hierarchical electron cascade system, Materials and Devices for Solar energy conversion	Dr. Asha Jhonsi Mariadoss	Chemistry	Science and Engineering Research Board (SERB)	2019	2019-22	18.30	SDG 7
25	Cellular Automata Models for Propagation of Tsunami Waves	Dr. E.Syed Mohamed	Computer Science and Engineering	Science and Engineering Research Board (SERB)	2019	2019-22	12.48	SDG 11 SDG 13
26	Triazole based New Functional Chromophores for optoelectronics and Biological Application	Dr. K. Karthikeyan	Chemistry	Tamil Nadu State Council for Science and Technology (TNSCST)	2019	2019-21	3.20	SDG 3
27	An empirical Investigation of Minimum support	Dr. Mohd. Amir & Dr. Afzalur Rahman	Commerce	Tamil Nadu State Council for Science and Technology (TNSCST)	2019	2019-20	1.80	
28	Automation of Climate Control inside a naturally ventilated polyhouse (GREEN HOUSE)	Dr. M. Parvez Alam & Mr.Kannan Ganapathi	Management Studies	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	2019	2019-20	10.00	SDG 13
29	Health and Sanitation of Wheels	Dr. M. Parvez Alam & Mr. Ravi Senji	Management Studies	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	2019	2019-20	2.15	SDG 7
30	A smart intravenous dripper System for centralized monitoring and automatic control of intravenous fluid.	Dr. M. Parvez Alam & Mr. Radhakrishnan Jothiram	Management Studies	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	2019	2019-20	10.00	SDG 3
31	End to End Water Management Solution	Dr. M. Parvez Alam & Mr. Mohideen	Management Studies	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	2019	2019-20	2.00	SDG 6

32	Islets Cells Transplantation	Dr. M. Parvez Alam & Dr. Nithya Kalyani	Management Studies	Government of Tamilnadu, Entrepreneurship Development and Innovation Institute (TN-EDII)	2019	2019-20	5.00	SDG 3
33	Development of Hybrid Rocket Motor	PI – Dr.P.N.Kadiresh & CO-PI – Sri Nithya Mahottmannada	Aerospace Engineering	The Ministry of Aeronautics R&D Board (DRDO)	2019	2019-22	9.79	SDG 4
34	Fault diagnosis on single stage helical planetary gearbox using machine learning algorithms	Aquib Yousuf, Aravind.V.K, Aravinda Krishnan.A, Farhanuddin.S.M.	Mechanical Engineering	Tamil Nadu State Council for Science and Technology (TNSCST)	2018*	2018-19	0.075	SDG 4
35	Phycoremediation of CO2 Level in suburban area via CO2 Sequestration by native microalgae : an eco friendly approach	Dr D Mubarak Ali, M Santhosh Kumar A Aravindh	Life Sciences	Tamil Nadu State Council for Science and Technology (TNSCST)	2018*	2018-19	0.075	SDG 7 SDG 15
36	Corrosion protection and service life extension of reinforced concrete roofing systems in existing buildings	Ms.Roopa	Civil Engineering	Science and Engineering Research Board (SERB)	2019	2019-22	18.30	SDG 7 SDG 15
37	Endophytic diversity of herbal plant Hibiscus	Dr.Wasima. M	Life Sciences	Department of Biotechnology (DBT)	2018*	2018-19	8.00	SDG 15
38	Structural Behaviour of Corroding Prestressed Concrete Systems and Extension of Service Life using Cathodic Protection	Dr. M.S. Haji Sheik Mohammed	Civil Engineering	Science and Engineering Research Board (SERB)	2018	2018-21	49.50	SDG 15

39	Development of Graphene and Metal Nanoparticles Reinforced Flexible Polymer nanocomposites for Effective Electromagnetic Interference (EMI) Shielding Applications	Dr. M. Basheer Ahamed	Physics	Science and Engineering Research Board (SERB)	2018	2018-21	28.01	
40	Development of hybrid nano based BLDC motor and validation of the design by using VLSI technology	Dr. K. Boopathy	Electrical and Electronics Engineering	Defense Research and Development organization (DRDO)	2018*	2018-20	9.80	SDG 9
41	Construction of optical logic gates using soliton collisions and study of electrical solitons in nonlinear transmission lines	Dr. M. Vijaya jayanthi	Physics	Science and Engineering Research Board (SERB)	2016*	2016-19	32.44	SDG 9
42	Antimicrobial Efficacy and Mechanisms of Whole Plant Extract of Acacia Arabica with Triphala on Biofilm Forming Cariogenic Microorganisms	Dr. Karthikeyan Ramalingam	Life Sciences	The Ministry of Ayurveda, Yoga & Naturopathy, Unani, Siddha, Sowa Rigpa and Homoeopathy (AYUSH-EMR)	2016*	2016-19	33.00	SDG 3
43	Synthesis of antimicrobial nanoemulsions for the treatment of multi-drug resistant ESKAPE pathogens	Dr. Karthikeyan Ramalingam	Life Sciences	Science and Engineering Research Board (SERB)	2016*	2016-19	23.28	SDG 3