

Annual Report for IQAC 2019-20

1. Name of the Department : Mechanical Engineering
a. NBA Accreditation Details : Nil
Accredited Programme : Nil
2. Degree Offered : UG: BE- Mechanical Engineering
3. Faculty Position :

Post	Sanctioned	Filled
Professor	1	1
Associate Professor	3	3
Assistant Professor including CIVIL	11	10

4. Odd Semester Subjects Offered : June 2019– Dec 2019
UG (Full Time)

SI No	Subject Code	Subject Name
1.	17MPC501	Design of Machine Elements
2.	17MPC502	Heat and Mass Transfer
3.	17MPC503	Dynamics Of Machine
4.	17MPC504	Operation Research
5.	17MPC505	Energy Engineering
6.	17MPE024	Automobile Engineering
7.	17MPC507	Heat and Mass Transfer Laboratory
8.	17MPC508	Dynamics Laboratory
9.	18 MES302	Engineering Mechanics
10.	18MPC303	Manufacturing Technology I
11.	18MPC304	Engineering Thermodynamics
12.	18MPC305	Fluid Mechanics and Fluid Machinery
13.	18MPC307	Fluid Mechanics and Fluid Machinery Laboratory

14.	18MPC308	Machine Drawing
15.	18ZES104	Engineering Graphics and Design 1st Mech
16.	18ZES104	Engineering Graphics and Design 1st ECE
17.	18ZES104	Engineering Graphics and Design 1st CSE
18.	18ZES108	Workshop Practice 1st EEE

5. Even Semester Subjects Offered : Jan 2020 – May 2020

UG (Full Time)

S.No	Subject Code	Subject Name
1.	17MPC601	Computer Aided Design and Manufacturing
2.	17MPC602	Gas dynamics and Jet Propulsion
3.	17MPC603	Design of Transmission systems
4.	17MPC604	Metrology and Measurements
5.	17MPC605	Finite Element Analysis
6.	17MPC607	Metrology and Measurements Laboratory
7.	17MPC608	CAD / CAM Laboratory
8.	17MPC609	Professional Skills development Laboratory
9.	18MPC401	Thermal Engineering
10.	18MHS402	Human Values and Professional Ethics
11.	18MPC403	Strength of Materials
12.	18MPC404	Engineering Materials and Metallurgy
13.	18MPC405	Kinematics of Machines
14.	18MPC407	Strength of Materials Laboratory
15.	18MPC408	Thermal Engineering Laboratory
16.	18ZES104	Engineering Graphics and Design
17.	18ZES208	Work Shop Practice - ECE 1st year

18.	18ZES208	Work Shop Practice - CSC 1st year
19.	18ZES208	Work Shop Practice - Mech 1st year
20..	18ZES204	Engineering Graphics (EEE – 1st year)

6. Faculty & Student Development Programmes 2019-2020

a. SDP Conducted by Department

Sl. No	Name of the Coordinator / Designation / Department	Details	No of Participations (Students)	Date	Amount
1	S.Tamilprabakaran/AP/MECH	Energy Audit in Motors and Mechanical Equipment. Final year Mech and EEE	40	30.01.2020 to 31.01.2020	34,287
2	Mr. M.Anbarasu	GATE 2020 TRAINING PROGRAMME Mech- All final Year	46	300 hrs	Rs. 19,470/ student
3	Mr.M.Anantha babu	Employability Skill Training Mech - Final Year	46	200 hrs	Rs.6,136 /student

b. FDP Conducted by Department 2019-2020

S.No.	Name of the Coordinator	Title of The Workshop/FDP/Training program	Duration		Total No of Days
			From	To	
1	Dr.P.Thirumal	AICTE Sponsored STTP Methodologies and Best Practices of Vibration Analysis in Automotive Industry	13/06/2019	19/06/2019	7
2	Dr.P.Thirumal	Recent innovations in welding and surface engineering (RIWASE-2019)	26/07/2019	27/07/2019	2
3	S.Tamil Prabakaran	TEQIP III sponsored Two days Student Workshop on “INTRODUCTION TO INTELLECTUAL PROPERTY RIGHTS (IPR)”	22/03/2019	23/03/2019	2
4	S.Tamil Prabakaran	Power Plant Operation	14th Feb 2020	15th Feb 2020	2
5	S.Tamil Prabakaran	“Energy Audit in Motors and Mechanical Equipment”	30th Jan 2020	31st Jan, 2020	2
6	S.Tamil Prabakaran	TEQIP-III Sponsored Two Week Course on “Material Testing Characterization Techniques and advancement in Welding Engineering”	25/11/2019	08/12/2019	114

7	M. Anantha Babu	NAAC FOR QUALITY AND EXCELLENCE IN HIGHER EDUCATION	24/06/2019	28/06/2019	5
8	M. Anantha Babu	Recent innovations in welding and surface engineering (RIWASE-2019)	26/07/2019	27/07/2019	2
9	Dr. I. Ashok Kumar	Recent innovations in welding and surface engineering (RIWASE-2019)	26/07/2019	27/07/2019	2

c. FDP Attended by Faculty 2019-2020

S.No.	Name of the Faculty	Title of The Workshop/FDP/Training program	Duration		Total No of Days
			From	To	
1	Dr.P.Thirumal	Train the Trainerson examination reforms	17/02/2020	19/02/2020	3
2	Dr.P.Thirumal	Quality ImprovementProgramme	24/06/2019	28/06/2019	5
3	Dr.P.Thirumal	Recent Trends inBio and Nano composite materials	01/07/2019	07/07/2019	7
4	Dr.P.Thirumal	Recent Innovations inWelding and surface engineering	26/07/2019	27/07/2019	2
5	Dr.P.Thirumal	TEQIP III TwinningProgram me	25/01/2019	05/02/2019	11
6	Dr.P.Thirumal	Recent Innovations and Research Trends in Nano Materialsand Surface coating	01/08/2019	07/08/2019	7
7	Dr.P.Thirumal	SDP-Design andProduct Development	08/04/2019	09/04/2019	2
8	Dr.P.Thirumal	AICTE SponsoredSTTP Methodologies andBest Practices of Vibration Analysisin Automotive Industry	13/06/2019	19/06/2019	7
9	Dr.P.Thirumal	FDP Micro Electro Mechanical Systems	05/07/2019	07/07/2019	3
10	Dr.P.Thirumal	Conference - RecentInnovations in Welding and surfaceengineering	26/07/2019	27/07/2019	2
11	M. Anbarasu	NAAC For Quality and Excellence in Higher Education	24/06/2019	28/06/2019	5
12	M. Anbarasu	Recent Trends in Bio and Nano Composite Materials	01/07/2019	07/07/2019	7
13	M. Anbarasu	Solar Photovoltaic System Design and Applications	10/07/2019	16/07/2019	7
14	M. Anbarasu	Recent Innovations and Research Trends in Nano Material and Surface Coating	01/08/2019	07/08/2019	7
15	M. Anbarasu	Energy Audit in Motors and Mechanical Equipment	30/01/2020	31/01/2020	2
16	M. Anbarasu	Design Develop and Deliver online courses through MOODLE Platform	23/04/2020	24/04/2020	2
17	S.Tamil Prabakaran	TEQIP III sponsored Two days Student Workshop on “INTRODUCTION TO	22/03/2019	23/03/2019	2

		INTELLECTUAL PROPERTY RIGHTS (IPR)”			
18	S.Tamil Prabakaran	CAM using Fusion 360	07 May 2020	13 May 2020	6
19	S.Tamil Prabakaran	“Design, Develop and deliver online courses through MOODLE platform”	23 April,2020	23 & 24 April,2020	2
20	S.Tamil Prabakaran	Digital Transformation in Teaching Learning Process	16 Mar 2020	30 Mar 2020	14
21	S.Tamil Prabakaran	Power Plant Operation	14th Feb 2020	15th Feb 2020	2
31	S.Tamil Prabakaran	“Energy Audit in Motors and Mechanical Equipment”	30th Jan 2020	31st Jan, 2020	2
32	S.Tamil Prabakaran	DEGITAL TRANFORMATION IN TEACHING LEARNING PROCESSES	16/03/2020	30/04/2020	15
33	S.Tamil Prabakaran	Methodology and best practices of vibration analysis in automotive industry	13/06/2019	19/06/2019	8
34	S.Tamil Prabakaran	NAAC FOR QUALITY AND EXCELLENCE IN HIGHER EDUCATION	24/06/2019	28/06/2019	5
35	S.Tamil Prabakaran	Recent trends in bio and nano composite material	1/07/2019	7/07/2019	7
36	S.Tamil Prabakaran	Recent innovation and research trends in nano material and surface coating	1/08/2019	7/08/2019	7
37	S.Tamil Prabakaran	MECHANICAL ENGINEERING APPLICATION IN TELECOM INDUSTRY	08/06/2020	26/06/2020	20
38	S.Tamil Prabakaran	TEQIP-III Sponsored Two Week Course on “Material Testing Characterization Techniques and advancement in Welding Engineering”	25/11/2019	08/12/2019	114
39	S.Tamil Prabakaran	Design Develop and Deliver online courses through MOODLE Platform	23/04/2020	24/04/2020	2
40	Dr.A.Kajavali	Recent trends in Nano material And surfacecoating	01/08/2019	07/08/2019	7
41	Dr.A.Kajavali	Digital transformationin teaching Learning process	06/04/2020	22/04/2020	17
42	M. Anantha Babu	NAAC FOR QUALITY AND EXCELLENCE IN HIGHER EDUCATION	24/06/2019	28/06/2019	5
43	M. Anantha Babu	Methodology and best practices of vibration analysis in automotive industry	13/06/2019	19/06/2019	8
44	M. Anantha Babu	Recent trends in bio and nano composite material	1/07/2019	7/07/2019	7
45	M. Anantha Babu	Solar photovoltaic system design and application	10/07/2019	16/07/2019	7
46	M. Anantha Babu	NPTEL workshop	26/07/2019	-	1
47	M. Anantha Babu	Recent innovation and research trends in nano material and	1/08/2019	7/08/2019	7

		surface coating			
48	M. Anantha Babu	Design ,develop and deliver online courses through module platform	23/04/2020	24/04/2020	3
49	M. Anantha Babu	Vibration analysis of rotating machinery	26/06/2020	27/06/2020	3
50	M. Anantha Babu	Energy audit in motors and mechanical equipments	30/01/2020	31/01/2020	2
51	M. Anantha Babu	Robots and automation	17/02/2020	28/02/2020	11
52	M. Anantha Babu	Recent innovations in welding and surface engineering (RIWASE-2019)	26/07/2019	27/07/2019	2
53	M. Anbarasu	POWER plant operation	14/02/2020	15/02/2020	2
54	M. Anbarasu	Solar photovoltaic system design and application	10/07/2019	16/07/2019	7
55	M. Anbarasu	Recent trends in bio and nano composite material	1/07/2019	7/07/2019	7
56	M. Anbarasu	Methodology and best practices of vibration analysis in automotive industry	13/06/2019	19/06/2019	8
57	M. Anbarasu	Material testing and characterization techniques for reseach	07/12/2019	13/12/2019	7
58	M. Anbarasu	Design ,develop and deliver online courses through module platform	23/04/2020	24/04/2020	3
59	M. Anbarasu	Recent innovations in welding and surface engineering (RIWASE-2019)	26/07/2019	27/07/2019	2
60	M. Anbarasu	Recent innovation and research trends in nano material and surface coating	1/08/2019	7/08/2019	7
61	E.Elango	Recent innovation and research trends in nano material and surface coating	1/08/2019	7/08/2019	7
62	Dr.A.Kajavali	POWER plant operation	14/02/2020	15/02/2020	2
63	E.Elango	OPTIMIZATION OF PROCESS PARAMETER IN EXPLOSIVE PLADING A 15052-SS316PLATE	10/04/2019	12/04/2019	3
64	Dr. I. Ashok Kumar	Train the trainers on examination reforms	17/02/2020	19/02/2020	3
66	Dr. I. Ashok Kumar	Recent innovations in welding and surface engineering (RIWASE-2019)	26/07/2019	27/07/2019	2
67	Dr. I. Ashok Kumar	Energy audit in motors and mechanical equipments	30/01/2020	31/01/2020	2
68	Dr. I. Ashok Kumar	Recent innovation and research trends in nano material and surface coating	1/08/2019	7/08/2019	7
69	Dr. I. Ashok Kumar	Solar photovoltaic system design and application	10/07/2019	16/07/2019	7
70	Dr. I. Ashok Kumar	Recent trends in bio and nano	1/07/2019	7/07/2019	7

		composite material			
73	Dr. I. Ashok Kumar	Digital transformation in teaching Learning process	06/04/2020	22/04/2020	17
74	Dr. I. Ashok Kumar	Nano materials and device	27/04/2020	01/05/2020	7
75	S.Sathishkumar	Effective teaching	15/07/2019	19/07/2019	5
76	S.Sathishkumar	Design Develop and Deliver online courses through MOODLE Platform	23/04/2020	24/04/2020	2
77	S.Sathishkumar	Digital transformation in teaching Learning process	06/04/2020	22/04/2020	17
78	S.Sathishkumar	Exploring research challenges in science and technologies	27/04/2020	29/04/2020	3
79	S.Sathishkumar	Energy conservation and waste heat recovery	07/2019	10/2019	10
80	Dr.D.Thirumalai Kumarasamy	Design ,develop and deliver online courses through module platform	23/04/2020	24/04/2020	3
81	M. Anbarasu	Everyone can do quality research	16/07/2020	-	1
82	M. Anantha Babu	MECHANICAL ENGINEERING CADD	7/02/2020	-	1
83	M. Anantha Babu	Online stpp on application optimization technical in mechanical engineering research	07/08/2020	11/08/2020	5

7. Online Courses attended NPTEL/MOOC/Course:

a. Attended by Faculty members: (NPTEL)

1	Dr. I. Ashok Kumar	Processing of polymers and polymer composite /NPTEL	01/2020	03/2020	7
2	Dr. I. Ashok Kumar	Properties of materials(nature and properties of material)/NPTEL	02/2020	04/02020	7
3	S.Tamil Prabakaran	NITTT - module 1	May-2020	June 2020	14
4	S.Tamil Prabakaran	NITTT - module 2	May-2020	June 2020	14
5	S.Tamil Prabakaran	NITTT - module 3	May-2020	June 2020	14
6	S.Tamil Prabakaran	NITTT - module 4	May-2020	June 2020	14
7	S.Tamil Prabakaran	NITTT - module 5	May-2020	June 2020	14
8	S.Tamil Prabakaran	NITTT - module 6	May-2020	June 2020	14
9	S.Tamil Prabakaran	NITTT - module 7	May-2020	June 2020	14
10	S.Tamil Prabakaran	NITTT - module 8	May-2020	June 2020	14
11	S.Tamil Prabakaran	Failure Analysis and Prevention	April - 2020	May 2020	14

b. Attended by Students:

S.No.	Name of the students	Course Name	Month/Year Online Exam
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1	K.Arunkumar	Engineering Mechanics	Sep – 2019
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8. Result statistics of subjects offered by the Department in the academic year 2018-19

S.No	Subject Code	Name of the Subject	Pass Percentage	Course In charge
1.	17MPC501	Design of Machine Elements	72.34	Mr. M.Anantha Babu
2.	17MPC502	Heat and Mass Transfer	85.10	Mr. M.Anbarasu
3.	17MPC503	Dynamics Of Machine	68.08	Mr. S.Tamil Prabakaran
4.	17MPC504	Operation Research	80.85	Mr. R.Madesh (Course Incharge: Mr. S.Sankar Ganesh)
5.	17MPC505	Energy Engineering	95.74	Mr. S.Sankar Ganesh
6.	17MPE024	Automobile Engineering	68.08	Dr. D.Thirumalai Kumarasamy
7.	17MPC507	Heat and Mass Transfer Laboratory	100	Mr. M.Anbarasu / Mr. R.Barathiraja (Assist)
8.	17MPC508	Dynamics Laboratory	100	Mr. S.Tamil Prabakaran /Mr. K. Mathivanan (Assist.)
9.	18 MES302	Engineering Mechanics	54.71	Dr.P.Thirumal
10	18MPC303	Manufacturing Technology I	71.69	Dr. I.Ashok kumar
11	18MPC304	Engineering Thermodynamics	58.49	Mr. R.Barathiraja (Course Incharge: Mr. M.Anbarasu)
12	18MPC305	Fluid Mechanics and Fluid Machinery	60.37	Dr J.Saravanan
13	18MPC307	Fluid Mechanics and Fluid Machinery Laboratory	100	Dr. J.Saravanan /Mr. R.Barathiraja (Assist)
14	18MPC308	Machine Drawing	100	Dr. P.Thirumal / Mr. R.Madesh (Assist)
15	18ZES104	Engineering Graphics and Design 1st Mech	84.63	Dr. I.Ashok kumar / Mr. M.Gokul (Assist)
16	18ZES104	Engineering Graphics and Design 1st ECE	79.56	Mr. K. ArunKumar / Mr. R.Madesh (Course Incharge: Mr. S.Tamil Prabakaran)
17	18ZES104	Engineering Graphics and Design 1st CSE	82.65	Mr. R.Barathiraja / Mr. K. Mathivanan (Course Incharge: Mr. M.Anantha Babu)
18	18ZES108	Workshop Practice 1st EEE	81.95ss	Dr. D.Thirumalai Kumarasamy / Mr. M.Gokul

				(Assist)
19	17MPC601	Computer Aided Design and Manufacturing	100	Mr. M.Anantha Babu/Mr. Bharathiraja (Asst)
20	17MPC602	Gas dynamics and Jet Propulsion	100	Dr.P.Thirumal
21	17MPC603	Design of Transmission systems	100	Mr. M.Anbarasu
22	17MPC604	Metrology and Measurements	100	Dr. D. Thirumalaikumarasamy
23	17MPC605	Finite Element Analysis	100	Dr.P.Thirumal
24	17MPC607	Metrology and Measurements Laboratory	100	Dr. D. Thirumalaikumarasamy
25	17MPC608	CAD / CAM Laboratory	100	Mr. M.Anbarasu
26	18MPC401	Thermal Engineering	100	Mr. E.Elango
27	18MHS402	Human Values and Professional Ethics	100	Dr. I.Ashok kumar
28	18MPC403	Strength of Materials	100	Dr J.Saravanan
29	18MPC404	Engineering Materials and Metallurgy	100	Mr. S.Tamilprabakaran
30	18MPC405	Kinematics of Machines	100	Mr. S.Sathishkumar
31	18MPC407	Strength of Materials Laboratory	100	Dr.J.Saravanan/ Thiru.S.Sathishkumar, Assistant Professor
32	18MPC408	Thermal Engineering Laboratory	100	Thiru.E.Elango/Dr.A.Kajavali Asso. Professor
33	18ZES208	Work Shop Practice - ECE 1st year	100	Mr. M.Anbarasu
34	18ZES208	Work Shop Practice - CSC 1st year	100	Dr.P.Thirumal
35	18ZES208	Work Shop Practice - Mech 1st year	100	Mr. S.Sathishkumar
36	18ZES204	Engineering Graphics (EEE – 1st year)	100	Mr. M.Anantha Babu

9. Remedial Classes Conducted

Nil

10. Publications 2019-2020

S.No	Faculty Name	Title Of Publication	Name Of Journal	Date Of Publication	Citation	Impact Factor
1.	Dr .I. Ashok Kumar	Thermal Characterizations Of Basalt Fiber Reinforced Poly(Aryl-Ether- Ketone) Biomedical Composites.	Journal Of Thermal Analysis And Calorimetry. DOI :10.1007/S10973- 020-10506-3, SCIE, I.F 2.471.	2020	-	2.471
2.	Dr .I. Ashok Kumar	ANALYSIS AND OPTIMIZATION OF MACHINING PARAMETER TURNING OF A356/10% Sicp MMC USING RESPONSE SURFACE METHODOLOGY APPROACH	ICAMBC 2020 IOP Conf. Series: Materials Science And Engineering 961 (2020) 012014 IOP Publishing Doi:10.1088/1757-899X/961/1/012014	2020	-	1.826
3.	Dr .I. Ashok Kumar	Studies The Effect Of Halloysite Nanotubes On The Mechanical And Hot Air Ageing Properties Of NitrilePolyvinyl Chloride Rubber Nano-Composite	Materials Today: Proceedings,	2020	-	8.013
4.	Dr .I. Ashok Kumar	Thermal Characterization Of Flax/Basalt Fiber Reinforced Phenol Resin Brake Pad Material: Effective Replacement Of Asbestos	JOURNAL OF NATURAL FIBERS	2019	70	2.622
5.	Dr .I. Ashok Kumar	Thermal Performance Of Internally Grooved Heat Pipe With Different Flow Rate And Orientation	Journal Of Manufacturing Engineering,	2019	-	0.894
6.	Dr.A.Kajaval i	A comparative study of six-cylinder direct injection compression ignition engine fueled with Agrimony Mexicana bio-diesel with and without selective catalytic reduction.	Taylor and Francis	2020	19	1.609
7.	Dr.A.Kajaval	Advances on the Flat Plate Collector Design Introduction to solar cavity collector	Comprehensive Advanced Specific Summarized Studies	2020	0	1.650

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8.	Dr.A.Kajaval i	Technological Improvement on energy –efficient methods applied to a solar cavity collector	Materials Science for Energy Technologies	2020	0	3.585
9.	Dr.A.Kajaval i	Experimental and Artificial Neural Network (ANN) simulation of a solar cavity collector	International Journal of Engineering and Advanced Technology	2019	0	0.000
10.	Dr.A.Kajaval i	Effect of Length to Diameter ratio (L/Dratio) on the performance of Flat Plate Solar Cavity collector	International Journal of Science and Technology Research	2019	0	-
11.	S.Tamil Prabakaran	Modelling and experimental validation of TIG welding of INCONEL 718	Materials Today: Proceedings	26.08.2020	01	0.97
12.	S.Tamil Prabakaran	The static structural analysis of torque converter material for better performance by changing the stator angle	Materials Today: Proceedings	16.08.2020	01	0.97
13.	S.Tamil Prabakaran	Hydrogen behavior in dual fuel mode diesel engine with nano diesel	Materials Today: Proceedings	10.09.2020	0	0.97
14.	S.Tamil Prabakaran	Performance analysis and emission characteristics of VCR diesel engine fuelled with algae biodiesel blends	Materials Today: Proceedings	2021/1/26	03	0.97
15.	S.Tamil Prabakaran	Effect of thermal Barrier coating in CI engines fueled with Citrus Medical (Citron) peel oil biodiesel dosed with cerium oxide nanoparticle	Materials Research Express	10.09.2020	1	0.97

16.	Dr. P. THIRUMAL	Preparation and characterization of shear thickening fluid coated polypropylene fabric for soft armor application	Journal of the textile institute	2020/10/9	--	-
17.	Dr. D.Thirumalai kumarasamy	Preparation and characterization of shear thickening fluid coated polypropylene fabric for soft armor application	The Journal of The Textile Institute (Taylor and francis Publications)	2020	0	
18.	Dr. D.Thirumalai kumarasamy	Selection of coating material for magnesium alloy using Fuzzy AHP-TOPSIS	Sadhana (Springer Publications)	2020	1	
19.	Dr. D.Thirumalai kumarasamy	Slurry erosion behavior of HVOF-sprayed amorphous coating on stainless steel	Metallography Microstructure and Analysis (Springer Publications)	2019	1	

11. List of Patterns filled

S.No	Publication Date	Journal No	Application Number	Classification (IPC)	Invention Title
1	07/06/2019	23/2019	201941020280	F24F 11/42	Intelligent control system for vehicles
2	25/09/2020	39/2020	201931038188	F03G0005060000 H02J0007000000 H02K0053000000 F03G0001000000 F03B0017020000	Mobile phone case with integrated power generation and distribution system
3	11/12/2020	50/2020	202041051891	B60H1/00	Advanced ergonomic air conditioning system.

12. Research Projects 2018-2019

S. No	Principal Investigator	Research Associates	Title of the Projects	Duration of the Project	Name of the Funding Agency	Amount in Lakhs	Status
1	Dr. D.Thirumalaikumarasamy, Ph.D., Assistant Professor (SG)	M. Ashokkumar, M.E., Junior Research Fellow	Performance Evaluation of Cold Spray Deposition for Metal Matrix Composite Coatings on AZ31B Magnesium Alloy by Friction Stir Processing	2019-2022	DST-SERB, New Delhi	₹ 45,07000	Ongoing
2	Dr. D.Thirumalaikumarasamy, Ph.D., Assistant Professor (SG)	M. Mathanbabu, M.E., Junior Research Fellow & A. Arunkumar, B.E .. Project Assistant	Effect of Pore size, Shape and Distribution on Performance of the Lanthanum Zirconate based Thermal Barrier Coatings	2019-2022	DRDO-ER&IP R, New Delhi	₹ 31,66,000	Ongoing