

APPENDIX

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1A , Development of Highly Efficient Thin Film Solar Cells with Organic and Inorganic Materials	
Name & Designation of the Principal Investigator		Dr. Saji K J, Associate Professor, International School of Photonics	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Kala R, Assistant Professor, Department of Applied Chemistry 2. Dr. K Sreekumar, Professor (Rtd.) , Department of Applied Chemistry 3. Dr. Leena R, Assistant Professor, Department of Applied Chemistry 4. Dr. N Manoj, Professor, Department of Applied Chemistry 5. Dr. M K Jayaraj, Professor (Rtd.), Department of Physics	
Head of Account		1-98-0-U-1-027	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	LC-MS (Single Quad)	72,00,000	0
2	Atomic Layer Deposition (ALD) system	0	1,50,00,000
3	Electrode deposition system	0	8,00,000
4	Ultra-Low Temperature Reactor setup	0	8,00,000
Total	2,38,00,000	72,00,000	1,66,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	25,28,640	24,17,280
2	Consumables	14,00,000	20,00,000
3	Contingency	4,00,000	4,00,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	10,00,000	20,00,000
5	Travel	2,05,000	2,05,000
6	Computers/Softwares/Minor Components	14,00,000	2,00,000
7	Seminars/Conferences	0	4,82,000
8	Workshops and Skill Training	1,00,000	2,20,000
9	Internships to PG and UG Students	1,00,000	2,12,000
10	Books and Journals	0	7,97,360
Total	1,60,67,280	71,33,640	89,33,640
Grand Total	3,98,67,280	1,43,33,640	2,55,33,640

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1B , Development of Metal Dichalcogenides, Nanocomposites and Polymer Materials for Energy Storage Applications	
Name & Designation of the Principal Investigator		Dr. Asha A S, Associate Professor, Department of Physics	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Jayalatha Gopalakrishnan G, Professor, Department of Polymer Science & Rubber Technology 2. Dr. Prasanth Raghavan, Professor, Department of Polymer Science & Rubber Technology	
Head of Account		1-98-0-U-1-028	
Budget			(Amount in Rupees)
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Battery Analyser with electrochemical work station	35,00,000	
2	Glove Box	0	31,00,000
Total	66,00,000	35,00,000	31,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	18,51,360	18,51,360
2	Consumables	8,08,032	10,08,032
3	Contingency	2,00,000	2,54,016
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	2,54,016	6,54,016
5	Travel	42,912	1,13,504
6	Computers/Softwares/Minor Components	2,54,016	6,54,016
7	Seminars/Conferences	0	2,72,410
8	Workshops and Skill Training	0	1,81,606
9	Internships to PG and UG Students	0	2,27,008
10	Books and Journals	0	4,54,016
Total	90,80,320	34,10,336	56,69,984
Grand Total	1,56,80,320	69,10,336	87,69,984

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1C , Development of Functional Materials/Systems for Artificial Photosynthesis	
Name & Designation of the Principal Investigator		Dr Sebastin Nybin Remello, Assistant Professor, Department of Applied Chemistry (on LWA) Dr. Suja Haridas, Associate Professor, Department of Applied Chemistry (in Charge of the project)	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Suja Haridas, Associate Professor, Department of Applied Chemistry 2. Dr. M K Jayaraj, Professor (Rtd.), Department of Physics 3. Dr. Honey John, Professor, Department of Polymer Science & Rubber Technology 4. Dr. N Manoj, Professor, Department of Applied Chemistry 5. Dr. Anoop K K, Assistant Professor, Department of Physics 6. Dr. Susmita De, Associate Professor, University of Calicut	
Head of Account		1-98-0-U-1-029	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Photochemical and Electrochemical reactor and online GC equipped with FID and TCD detectors with online gas sampling	25,00,000	0
2	Rotary evaporator with vacuum pump and chiller	0	11,00,000
3	Microbalance	0	5,00,000
4	Ice flaker	0	3,90,000
Total	44,90,000	25,00,000	19,90,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	26,80,000	26,80,080
2	Consumables	12,00,000	15,00,000
3	Contingency	3,60,000	3,60,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	5,00,000	8,60,000
5	Travel	1,50,000	1,50,000
6	Computers/Softwares/Minor Components	8,00,000	6,00,000
7	Seminars/Conferences	0	3,75,000
8	Workshops and Skill Training	1,00,000	1,00,000
9	Internships to PG and UG Students	0	3,00,000
10	Books and Journals	0	6,50,820
Total	1,33,65,900	57,90,000	75,75,900
Grand Total	1,78,55,900	82,90,000	95,65,900

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1D , Development of Cerium Oxide Nanoparticle Approach for Enhancing Radio Iodide Avidity in Papillary Thyroid Carcinoma by Augmenting the Expression of the Sodium Iodide Symporter	
Name & Designation of the Principal Investigator		Dr. Ajith Vengellur, Assistant Professor, Department of Biotechnology	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Baby Chakrapani P S, Assistant Professor, Department of Biotechnology 2. Dr. Sailaja G S, Associate Professor, Department of Polymer Science & Rubber Technology	
Head of Account		1-98-0-U-1-030	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Real-time PCR	12,50,000	0
2	Hypoxia Incubator	8,50,000	0
Total	21,00,000	21,00,000	0
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,32,000	4,32,000
2	Consumables	4,00,000	4,00,000
3	Contingency	84,000	84,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	1,60,000	1,30,000
5	Travel	0	30,000
6	Computers/Softwares/Minor Components	0	3,00,000
7	Seminars/Conferences	0	0
8	Workshops and Skill Training	0	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	20,800
Total	24,72,800	10,76,000	13,96,800
Grand Total	45,72,800	31,76,000	13,96,800

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1E , Optimization and Transplantation of Rat Blood Derived Stem Cells Using a Novel Biodegradable Scaffold for Treating Parkinson's Disease(PD)	
Name & Designation of the Principal Investigator		Dr. Baby Chakrapani P S, Assistant Professor, Department of Biotechnology	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Sailaja G S, Associate Professor, Department of Polymer Science & Rubber Technology 2. Dr. Ajith Vengellur, Assistant Professor, Department of Biotechnology	
Head of Account		1-98-0-U-1-031	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Microtome (with Cryo facility)	0	29,00,000
Total	29,00,000	0	29,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	5,90,720	5,90,720
2	Consumables	2,95,360	2,95,360
3	Contingency	73,840	73,840
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	1,47,680	1,47,680
5	Travel	36,920	36,920
6	Computers/Softwares/Minor Components	1,00,000	1,95,360
7	Seminars/Conferences	0	88,608
8	Workshops and Skill Training	0	59,072
9	Internships to PG and UG Students	0	73,840
10	Books and Journals	0	1,47,680
Total	29,53,600	12,44,520	17,09,080
Grand Total	58,53,600	12,44,520	46,09,080

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1F , Development of an Inherently Radiopaque, Biodegradable and Cost Effective TACE System With Liver Regeneration Potential for the Treatment of Hepatocellular Carcinoma	
Name & Designation of the Principal Investigator		Dr. Sailaja G S, Associate Professor, Department of Polymer Science & Rubber Technology	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Sarita G Bhat, Professor, Department of Biotechnology 2. Dr. Ajith Vengellur, Assistant Professor, Department of Biotechnology 3. Dr. Baby Chakrapani P S, Assistant Professor, Department of Biotechnology	
Head of Account		1-98-0-U-1-032	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Refrigerated Centrifuge	6,19,500	0
2	Rotary Evaporator	0	7,80,500
3	High Pressure Homogenizer	0	10,00,000
4	Ultrasonic bath	0	1,00,000
Total	25,00,000	6,19,500	18,80,500
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	5,43,120	5,43,120
2	Consumables	3,95,360	1,95,360
3	Contingency	73,840	73,840
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	2,47,680	47,680
5	Travel	10,000	63,840
6	Computers/Softwares/Minor Components	1,47,680	1,47,680
7	Seminars/Conferences	0	1,38,608
8	Workshops and Skill Training	0	59,072
9	Internships to PG and UG Students	0	73,840
10	Books and Journals	0	1,92,880
Total	29,53,600	14,17,680	15,35,920
Grand Total	54,53,600	20,37,180	34,16,420

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1G , Application of Bacterial Pigments as Dietary Supplements as well as Therapeutic Modules for Inflammation	
Name & Designation of the Principal Investigator		Dr. Sarita G Bhat, Professor, Department of Biotechnology	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Baby Chakrapani P S, Assistant Professor, Department of Biotechnology 2. Dr. Ajith Vengellur, Assistant Professor, Department of Biotechnology	
Head of Account		1-98-0-U-1-033	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Microinjector	5,00,000	0
2	Cooled incubator with programmable light and temp control	0	3,00,000
3	Class II B2 Biosafety cabinet	0	3,00,000
4	CO2 Incubator for fish cell culture	0	3,00,000
5	Standalone Fish system	0	6,00,000
Total	20,00,000	5,00,000	15,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	6,54,240	0
2	Consumables	2,00,000	1,16,000
3	Contingency	40,000	39,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	89,000	79,000
5	Travel	10,000	19,500
6	Computers/Softwares/Minor Components	1,00,000	80,560
7	Seminars/Conferences	0	39,400
8	Workshops and Skill Training	0	23,600
9	Internships to PG and UG Students	0	19,750
10	Books and Journals	0	69,950
Total	15,80,000	10,93,240	4,86,760
Grand Total	35,80,000	15,93,240	19,86,760

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T11 , Development of 3D Electronic Laser Speckle Pattern Interferometry Set up for Structural Testing Analysis	
Name & Designation of the Principal Investigator		Dr. A Mujeeb, Senior Professor, International School of Photonics	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Supriya M H, Professor, Department of Electronics 2. Dr. Biju N, Professor, Division of Mechanical Engineering, School of Engineering 3. Dr. Thomas Kurian, Emeritus Professor, Department of Polymer Science & Rubber Technology	
Head of Account		1-98-0-U-1-035	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	High resolution 3D Electronic speckle Pattern interferometry System with optical table mount, special mount for tensile testing, CCD sensor array, illumination and zooming optics and analysis software for recording and evaluation	1,35,00,000	0
Total	1,35,00,000	1,35,00,000	0
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	0	13,08,480
2	Consumables	0	3,00,000
3	Contingency	0	1,00,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	2,00,000	2,00,000
5	Travel	0	1,50,000
6	Computers/Softwares/Minor Components	0	2,00,000
7	Seminars/Conferences	0	1,00,000
8	Workshops and Skill Training	3,00,000	1,00,000
9	Internships to PG and UG Students	0	1,00,000
10	Books and Journals	0	50,000
Total	31,08,480	5,00,000	26,08,480
Grand Total	1,66,08,480	1,40,00,000	26,08,480

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1J , Investigation on Room Temperature Ferromagnetism in Spray Pyrolysed Doped Ceria Thin Films and Polymer Ceria Nanocomposite Films	
Name & Designation of the Principal Investigator		Dr. Dhannia T, Associate Professor, Division of Applied Science and Humanities, School of Engineering	
Name & Designation of the Co-Principal Investigator(s)		Sri. Unni A M, Associate Professor, Division of Electronics and Communication Engineering, School of Engineering	
Head of Account		1-98-0-U-1-036	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Spray pyrolysis unit	12,00,000	0
2	Spin coating unit	0	2,50,000
3	Digital magnetic stirrer with hot plate	0	26,000
4	Conductivity cell	0	8,58,000
5	Thickness measurement set up	0	80,000
Total	24,14,000	12,00,000	12,14,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	3,00,000	5,65,600
2	Consumables	2,00,000	2,32,800
3	Contingency	54,100	54,100
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	30,000	1,86,400
5	Travel	20,000	34,100
6	Computers/Softwares/Minor Components	1,00,000	1,16,400
7	Seminars/Conferences	0	64,920
8	Workshops and Skill Training	0	43,280
9	Internships to PG and UG Students	0	54,100
10	Books and Journals	0	1,08,200
Total	21,64,000	7,04,100	14,59,900
Grand Total	45,78,000	19,04,100	26,73,900

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1S1 , Probing Cobalt Complexes Based Hole Transporting Materials for Photovoltaic Applications	
Name & Designation of the Principal Investigator		Dr. Manoj E, Assistant Professor, Department of Applied Chemistry	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Saji K J, Associate Professor, International School of Photonics 2. Dr. N Manoj, Professor, Department of Applied Chemistry	
Head of Account		1-98-0-U-1-037	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,31,520	4,31,520
2	Consumables	2,00,000	3,00,608
3	Contingency	62,576	62,576
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	1,58,796	1,59,696
5	Travel	31,288	31,288
6	Computers/Softwares/Minor Components	1,00,000	2,19,392
7	Seminars/Conferences	0	75,091
8	Workshops and Skill Training	0	50,061
9	Internships to PG and UG Students	0	63,476
10	Books and Journals	0	1,25,152
Total	25,03,040	9,84,180	15,18,860

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1S2 , Development of Bisbenzotriazole Based Co-Polymers Using the Donor Acceptor Approach Towards Organic Solar Cells	
Name & Designation of the Principal Investigator		Dr. Sindhu Mathai, Assistant Professor, Department of Applied Chemistry	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Saji K J, Associate Professor, International School of Photonics 2. Dr. N Manoj Professor, Department of Applied Chemistry	
Head of Account		1-98-0-U-1-038	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Glove Box	9,00,000	0
2	Low Temperature Reactor Vessel	0	3,00,000
Total	12,00,000	9,00,000	3,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	6,00,000	2,64,000
2	Consumables	2,00,000	3,36,000
3	Contingency	62,000	62,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	1,30,000	1,30,000
5	Travel	31,000	31,000
6	Computers/Softwares/Minor Components	50,000	2,50,000
7	Seminars/Conferences	0	74,000
8	Workshops and Skill Training	0	80,000
9	Internships to PG and UG Students	0	60,000
10	Books and Journals	0	1,20,000
Total	24,80,000	10,73,000	14,07,000
Grand Total	36,80,000	19,73,000	17,07,000

RUSA 2.0 - Major Projects

Theme 1 : Energy and Material Sciences

Project Number & Project Title		T1S3 , Antifouling Multi-Layered Membranes for the Removal of Micro Organisms from Water	
Name & Designation of the Principal Investigator		Dr. Usha K Aravind, Professor, School of Environmental Studies	
Name & Designation of the Co-Principal Investigator(s)		Dr. Ratheesh Kumar C S, Assistant Professor, School of Environmental Studies	
Head of Account		1-98-0-U-1-039	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Dead end low pressure filtration cell	4,00,000	0
2	Water quality sensors and probes	5,00,000	0
Total	9,00,000	9,00,000	0
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	6,12,000	6,12,000
2	Consumables	2,62,000	2,62,000
3	Contingency	65,000	65,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	1,31,000	1,31,000
5	Travel	32,000	32,000
6	Computers/Softwares/Minor Components	1,00,000	1,62,000
7	Seminars/Conferences	0	76,000
8	Workshops and Skill Training	0	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	81,040
Total	26,23,040	12,02,000	14,21,040
Grand Total	35,23,040	21,02,000	14,21,040

RUSA 2.0 - Major Projects

Theme 2 : Environment and Marine Science

Project Number & Project Title		T2B , National Facility for Marine Extracts and Genetic Resources for Bioactive Molecules	
Name & Designation of the Principal Investigator		Dr. T P Sajeevan, Associate Professor, National Centre for Aquatic Animal Health	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Valsamma Joseph, Professor, National Centre for Aquatic Animal Health 2. Dr. Jayesh Puthumana, Assistant Professor, National Centre for Aquatic Animal Health 3. Dr. I S Bright Singh, University Emeritus Scientist, National Centre for Aquatic Animal Health 4. Dr. Rosamma Philip, UGC BSR Faculty, Department of Marine Biology, Microbiology & Biochemistry	
Head of Account		1-98-0-U-1-040	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Liquid Chromatography System (Flash)	0	18,00,000
2	CO2 Incubator	6,00,000	0
3	Rotary Shaker	0	6,00,000
4	Biosafety Level II	0	5,00,000
5	Rotary evaporator	0	9,50,000
6	Flammable cabinet (2 Nos)	0	1,00,000
7	Hot air ovens (2 Nos)	0	1,00,000
8	Ultrasonic bath	0	75,000
9	Deep Freezers (-20C) (2 nos)	0	5,00,000
10	BOD Incubator	0	75,000
11	Environmental Chamber	0	4,00,000
12	Laminar Flow hood	0	1,00,000
Total	58,00,000	6,00,000	52,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	20,88,000	36,72,000
2	Consumables	8,00,000	20,80,000
3	Contingency	3,00,000	4,20,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	8,40,000	6,00,000
5	Travel	0	3,60,000
6	Computers/Softwares/Minor Components	6,00,000	8,40,000
7	Seminars/Conferences	0	4,32,000
8	Workshops and Skill Training	0	2,88,000
9	Internships to PG and UG Students	50,000	3,10,000
10	Books and Journals	0	7,20,000
Total	1,44,00,000	46,78,000	97,22,000
Grand Total	2,02,00,000	52,78,000	1,49,22,000

RUSA 2.0 - Major Projects

Theme 2 : Environment and Marine Science

Project Number & Project Title		T2C , Marine Biodiversity and Bioprospecting	
Name & Designation of the Principal Investigator		Dr. S Bijoy Nandan, Senior Professor, Department of Marine Biology, Microbiology & Biochemistry	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. A A Mohamed Hatha, Senior Professor, Department of Marine Biology, Microbiology & Biochemistry 2. Dr. Swapna P Antony, Assistant Professor, Department of Marine Biology, Microbiology & Biochemistry 3. Dr. K B Padmakumar, Assistant Professor, Department of Marine Biology, Microbiology & Biochemistry 4. Dr. Priyaja P, Assistant Professor, Department of Marine Biology, Microbiology & Biochemistry	
Head of Account		1-98-0-U-1-041	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Particle Size Analyzer	54,00,000	0
2	Ice Flake Machine	0	3,00,000
3	Gradient PCR	0	5,00,000
Total	62,00,000	54,00,000	8,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	27,91,440	27,91,440
2	Consumables	8,50,000	16,50,000
3	Contingency	2,50,000	3,75,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	2,00,000	4,20,000
5	Travel	2,00,000	6,62,000
6	Computers/Softwares/Minor Components	1,50,000	11,00,000
7	Seminars/Conferences	0	3,75,000
8	Workshops and Skill Training	1,50,000	1,00,000
9	Internships to PG and UG Students	0	3,10,000
10	Books and Journals	0	1,25,000
Total	1,24,99,880	45,91,440	79,08,440
Grand Total	1,86,99,880	99,91,440	87,08,440

RUSA 2.0 - Major Projects

Theme 2 : Environment and Marine Science

Project Number & Project Title		T2D , Stable Isotope Research Facility for Marine and Climate Sciences	
Name & Designation of the Principal Investigator		Dr. Habeeb Rahman K, Assistant Professor, Department of Chemical Oceanography	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Midhun M, Assistant Professor, Department of Atmospheric Sciences 2. Dr. Lekshmy P R, Assistant Professor, Department of Atmospheric Sciences 3. Dr. V Vijith, Assistant Professor, Department of Physical Oceanography	
Head of Account		1-98-0-U-1-042	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Stable isotope ratio mass spectrometer + Pheripherals	0	65,00,000
2	High vacuum cryogenic extraction line and accessories		
3	CTD profiler		
4	High vacuum sampling bottles		
5	Microdrill		
6	Microscope with Digital Camera		
7	Microtome		
8	Microbalance		
9	Samplers		
Total	65,00,000	0	65,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	19,16,880	31,16,880
2	Consumables	8,08,000	17,12,000
3	Contingency	2,45,670	3,90,570
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	4,41,000	8,19,000
5	Travel	1,10,250	2,04,750
6	Computers/Softwares/Minor Components	3,41,000	9,19,000
7	Seminars/Conferences	0	3,78,000
8	Workshops and Skill Training	88,200	1,63,800
9	Internships to PG and UG Students	94,500	2,20,500
10	Books and Journals	0	6,30,000
Total	1,26,00,000	40,45,500	85,54,500
Grand Total	1,91,00,000	40,45,500	1,50,54,500

RUSA 2.0 - Major Projects

Theme 2 : Environment and Marine Science

Project Number & Project Title		T2E , Neotectonic Framework of Central Kerala Coast and its Implications on Shoreline Changes: An integrated Geological, Geophysical and Geodetic Approach	
Name & Designation of the Principal Investigator		Dr. Ajayakumar P, Assistant Professor, Department of Marine Geology & Geophysics	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Sunil P S, Associate Professor, Department of Marine Geology & Geophysics 2. Dr. N R Nisha, Assistant Professor, Department of Marine Geology & Geophysics	
Head of Account		1-98-0-U-1-043	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Gravimeter and GPS	0	96,00,000
Total	96,00,000	0	96,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	17,26,080	28,06,080
2	Consumables	8,12,000	13,68,000
3	Contingency	1,58,000	5,42,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	4,56,000	8,84,000
5	Travel	1,14,000	3,71,000
6	Computers/Softwares/Minor Components	4,56,000	6,84,000
7	Seminars/Conferences	0	3,42,000
8	Workshops and Skill Training	91,000	1,37,000
9	Internships to PG and UG Students	50,000	1,71,000
10	Books and Journals	0	2,31,486
Total	1,13,99,646	38,63,080	75,36,566
Grand Total	2,09,99,646	38,63,080	1,71,36,566

RUSA 2.0 - Major Projects

Theme 2 : Environment and Marine Science

Project Number & Project Title		T2F , Development of Functional Materials and Systems for Environmental Applications with Special Focus on Pollution Reduction and Control	
Name & Designation of the Principal Investigator		Dr. V Sivanandan Achari, Professor, School of Environmental Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Ratheeshkumar C S, Assistant Professor, School of Environmental Studies 2. Dr. Suja Haridass, Associate Professor, Department of Applied Chemistry 3. Dr. Preethy Chandran, Assistant Professor, School of Environmental Studies	
Head of Account		1-98-0-U-1-044	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	ICP-MS [Inductively Coupled Plasma - Mass Spectrometer] Coupled With Ion Chromatography and All Accessories	1,50,00,000	0
Total	1,50,00,000	1,50,00,000	0
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	11,96,960	18,31,200
2	Consumables	6,40,000	10,20,000
3	Contingency	1,60,000	2,54,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	3,30,000	5,10,000
5	Travel	80,000	1,30,000
6	Computers/Softwares/Minor Components	3,36,080	5,00,000
7	Seminars/Conferences	0	2,40,000
8	Workshops and Skill Training	1,00,000	70,000
9	Internships to PG and UG Students	56,960	1,45,000
10	Books and Journals	0	4,00,000
Total	80,00,200	29,00,000	51,00,200
Grand Total	2,30,00,200	1,79,00,000	51,00,200

RUSA 2.0 - Major Projects

Theme 2 : Environment and Marine Science

Project Number & Project Title		T2G , Development of Electrochemical Sensors for the Detection and Quantification of Environmental Pollutants	
Name & Designation of the Principal Investigator		Dr. Leena R, Assistant Professor, Department of Applied Chemistry	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. K Girish Kumar, Professor, Department Of Applied Chemistry 2. Dr. Kala R, Assistant Professor, Department of Applied Chemistry	
Head of Account		1-98-0-U-1-045	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Electrochemical workstation	0	25,00,000
Total	25,00,000	0	25,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	8,77,920	25,57,920
2	Consumables	6,60,512	10,45,248
3	Contingency	1,71,184	2,56,776
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	3,18,144	5,31,696
5	Travel	85,592	1,28,388
6	Computers/Softwares/Minor Components	3,42,368	5,13,552
7	Seminars/Conferences	1,02,710	1,54,066
8	Workshops and Skill Training	68,474	1,02,710
9	Internships to PG and UG Students	85,592	1,28,388
10	Books and Journals	1,71,184	2,56,776
Total	85,59,200	28,83,680	56,75,520
Grand Total	1,10,59,200	28,83,680	81,75,520

RUSA 2.0 - Major Projects

Theme 2 : Environment and Marine Science

Project Number & Project Title		T2H , Development of 1 Tonne Capacity Unitized Composting Apparatus for the Conversion of Urban Food Waste into Manure at Community Level	
Name & Designation of the Principal Investigator		Dr. Anand M, Assistant Professor, School of Environmental Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Usha K Aravind, Professor, School of Environmental Studies 2. Dr. G Madhu, Professor, Head, Division of Safety & Fire Engineering, School of Engineering 3. Dr. Renu Pawels, Professor, Division of Civil Engineering, School of Engineering 4. Dr. Ratheesh Kumar C S, Assitant Professor, School of Environmental Studies 5. Dr. Preethy Chandran, Assistant Professor, School of Environmental Studies.	
Head of Account		1-98-0-U-1-046	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Reactor Construction	20,00,000	0
Total	20,00,000	20,00,000	0
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	7,96,000	7,96,000
2	Consumables	2,98,000	4,98,000
3	Contingency	0	1,98,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	1,00,000	2,98,000
5	Travel	49,000	49,000
6	Computers/Softwares/Minor Components	2,98,000	1,06,800
7	Seminars/Conferences	0	1,19,000
8	Workshops and Skill Training	0	79,000
9	Internships to PG and UG Students	49,000	49,000
10	Books and Journals	0	1,98,000
Total	39,80,800	15,90,000	23,90,800
Grand Total	59,80,800	35,90,000	23,90,800

RUSA 2.0 - Major Projects

Theme 3 : Mathematics and Computing

Project Number & Project Title		T3A , Solving Complex Problems using High Performance Cluster	
Name & Designation of the Principal Investigator		Dr. Charles Jose, Assistant Professor, Department of Physics	
Name & Designation of the Co-Principal Investigator(s)		<ol style="list-style-type: none"> 1. Dr. Titus K Mathew, Professor, Department of Physics 2. Dr. N Balakrishna, Senior Professor, Department of Statistics 3. Dr. N Manoj, Professor, Department of Applied Chemistry 4. Dr. Rhine Kumar A K, Assistant Professor, Department of Physics 5. Dr. Sasidevan V, Assistant Professor, Department of Physics 6. Dr. Ronald Benjamin, UGC-FRP Assistant Professor, Department of Physics 7. Dr. Senoy Thomas, Assistant Professor, Department of Physics 8. Dr. Jayasree E G, Professor, Department of Applied Chemistry 9. Dr. Priya Rose T, Assistant Professor, International School of Photonics 10. Dr. Irshad M R, Assistant Professor, Department of Statistics 11. Dr. A Noufal, Assistant Professor, Department of Mathematics 12. Dr. V B Kiran Kumar, Assistant Professor, Department of Mathematics 13. Dr. Ambily A A, Assistant Professor, Department of Mathematics 14. Dr. Susmita De, Assistant Professor, University of Calicut (Collaboarator) 	
Head of Account		1-98-0-U-1-047	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	8,64,000	10,86,500
2	Consumables	2,00,000	2,00,000
3	Contingency	3,00,000	3,00,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	3,50,000	90,000
6	Computers/Softwares/Minor Components	2,34,00,000	45,00,000
7	Seminars/Conferences	7,00,000	1,00,000
8	Workshops and Skill Training	1,86,000	1,20,000
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	26,500
Total	3,24,23,000	2,60,00,000	64,23,000

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4B , Membrane Bioreactor for Biological Nutrient Removal from Waste waters	
Name & Designation of the Principal Investigator		Dr. Renu Pawels, Professor, Division of Civil Engineering, School of Engineering	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. G Madhu, Professor, Division of Safety & Fire Engineering, School of Engineering 2. Dr. Saju K K, Professor, Division of Mechanical Engineering, School of Engineering 3. Dr. Anand M, Assistant Professor, School of Environmental Studies	
Head of Account		1-98-0-U-1-048	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Progressing Cavity Pump	3,00,000	0
2	Online D.O meter with D.O sensor	0	90,000
3	On line pH meter with pH sensor	0	1,00,000
4	Suction pump	50,000	0
5	Manometer	10,000	0
6	Oil less Air compressor	0	1,00,000
7	Membranes, modules, frames	0	1,00,000
8	Distilling apparatus for kjeldhal determinations	0	10,000
9	Goniometer	40,000	0
Total	8,00,000	4,00,000	4,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	3,72,000	3,76,000
2	Consumables	1,88,000	1,88,000
3	Contingency	47,000	47,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	94,000	94,000
5	Travel	23,500	23,500
6	Computers/Softwares/Minor Components	98,000	95,000
7	Seminars/Conferences	28,200	28,200
8	Workshops and Skill Training	18,800	18,800
9	Internships to PG and UG Students	23,500	23,500
10	Books and Journals	47,000	47,000
Total	18,81,000	9,40,000	9,41,000
Grand Total	26,81,000	13,40,000	13,41,000

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4C , Multi-parameter Buoy Monitoring System for Data Collection in Arabian Sea	
Name & Designation of the Principal Investigator		Dr. Supriya M H, Professor, Department of Electronics	
Name & Designation of the Co-Principal Investigator(s)		1. Sri. Arun A Balakrishnan, Assistant Professor, Department of Electronics 2. Ms. V Y Vidhu, Assistant Professor, Department of Electronics 3. Sri. Mithun Haridas T P, Assistant Professor, Department of Electronics	
Head of Account		1-98-0-U-1-049	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Desktop (4 Nos) – Intel Xeon processor, 64 GB DDR4, NVIDIA Quadro P2000 4 GB, 1 TB HDD	6,00,000	1,50,000
2	DG Set – 24 kW/30 kVA, Silent Electric Generator Set with Acoustic Enclosure, Atleast 38 BHP at 1500 RPM	5,50,000	0
3	Rack-mountable Workstation - Xeon processor, Dual socket, 64 GB RAM, 2 P5000 cards, 1 Mellanox card	0	10,00,000
Total	23,00,000	11,50,000	11,50,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	9,18,000	9,22,500
2	Consumables	75,000	1,00,000
3	Contingency	79,500	1,00,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	1,00,000	3,00,000
5	Travel	50,000	50,000
6	Computers/Softwares/Minor Components	5,50,000	3,00,000
7	Seminars/Conferences	1,00,000	1,00,000
8	Workshops and Skill Training	50,000	50,000
9	Internships to PG and UG Students	50,000	50,000
10	Books and Journals	0	240
Total	39,45,240	19,72,500	19,72,740
Grand Total	62,45,240	31,22,500	31,22,740

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4D , Setting up of a Research Facility for Signal Analysis, Processing and Machine Intelligence with an Initial Project being Development of a Visual Vibrometer with Specific Objective of Voice Capturing and Vibration Analysis.	
Name & Designation of the Principal Investigator		Dr. Reju V G, Associate Professor, Department of Instrumentation (on LWA) Dr. Pankaj Sagar, Assistant Professor, Department of Instrumentation (in Charge of the project)	
Name & Designation of the Co-Principal Investigator(s)		Dr. K N Madhusoodanan, Emeritus Professor , Department of Instrumentation	
Head of Account		1-98-0-U-1-050	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Laser vibrometer	24,00,000	0
2	Telephoto zoom lens and accessories	1,75,000	0
3	High speed video camera and accessories	6,25,000	0
4	Measuring Instruments	3,00,000	0
5	Vibration measurement and analysis system consists of channel analysers, accelerometers, mics, vibration shakers, associated software and other accessories	0	35,00,000
Total	70,00,000	35,00,000	35,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	0	7,80,000
2	Consumables	40,000	70,000
3	Contingency	50,000	50,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	0	0
6	Computers/Softwares/Minor Components	12,10,000	4,00,000
7	Seminars/Conferences	0	0
8	Workshops and Skill Training	0	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	0
Total	26,00,000	13,00,000	13,00,000
Grand Total	96,00,000	48,00,000	48,00,000

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4E , Development of Water Treatment System Based on Advanced Oxidation Process (AOP) for the Removal of Emerging Contaminants	
Name & Designation of the Principal Investigator		Dr. G Madhu, Professor, Division of Safety & Fire Engineering, School of Engineering	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Renu Pawels, Professor, Division of Civil Engineering, School of Engineering 2. Dr. V Sivanandan Achari, Professor, School of Environmental Studies	
Head of Account		1-98-0-U-1-051	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Ultrasonic Probe Sonicator	2,50,000	0
2	UV Photo Reactor	0	2,50,000
Total	5,00,000	2,50,000	2,50,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	2,10,000	0
2	Consumables	0	1,00,000
3	Contingency	0	15,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	40,000
5	Travel	0	15,000
6	Computers/Softwares/Minor Components	2,00,000	15,000
7	Seminars/Conferences	0	15,000
8	Workshops and Skill Training	0	15,000
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	0
Total	6,25,000	4,10,000	2,15,000
Grand Total	11,25,000	6,60,000	4,65,000

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4F , Video Content Analysis for Cybersecurity Applications	
Name & Designation of the Principal Investigator		Dr. Bijoy A Jose, Associate Professor, Department of Computer Science	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Santosh Kumar G, Professor, Department of Computer Science 2. Dr. Sabu M K, Professor, Department of Computer Applications	
Head of Account		1-98-0-U-1-052	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	GPU workstation	7,50,000	0
2	FPGA and accessories	0	2,00,000
3	Edge development components	0	5,50,000
Total	15,00,000	7,50,000	7,50,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	12,94,560	12,94,560
2	Consumables	13,000	13,000
3	Contingency	1,50,000	1,50,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	1,00,000	1,00,000
6	Computers/Softwares/Minor Components	50,000	50,000
7	Seminars/Conferences	20,000	20,880
8	Workshops and Skill Training	20,000	20,000
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	0
Total	32,96,000	16,47,560	16,48,440
Grand Total	47,96,000	23,97,560	23,98,440

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4G , Big Data Weather Forecasting System Using Deep Learning Techniques	
Name & Designation of the Principal Investigator		Dr. Binsu C Koor, Professor, Division of Information Technology, School of Engineering	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Daleesha M Viswanathan, Professor, Division of Information Technology, School of Engineering 2. Dr. Job Thomas, Professor, Division of Civil Engineering, School of Engineering	
Head of Account		1-98-0-U-1-053	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	AI-GPU Development Board	0	3,00,000
2	Power backup - 24KW/ 30KVA, Silent Electric Generator with customized control system and amf panel	0	4,95,000
3	Google Coral USB Edge TPU ML Accelerator -2	0	20,000
4	Color printer	0	48,500
Total	8,63,500	0	8,63,500
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	5,46,000	5,46,000
2	Consumables	2,75,000	2,75,000
3	Contingency	68,750	75,750
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	1,37,500	1,37,500
5	Travel	34,375	34,375
6	Computers/Softwares/Minor Components	11,73,954	2,38,800
7	Seminars/Conferences	41,250	41,250
8	Workshops and Skill Training	27,500	27,500
9	Internships to PG and UG Students	34,375	34,375
10	Books and Journals	68,750	68,750
Total	38,86,754	24,07,454	14,79,300
Grand Total	47,50,254	24,07,454	23,42,800

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4H , Design and Development of Radio Direction Finding & Localization Systems to Improve the Management of 5G Networks	
Name & Designation of the Principal Investigator		Dr. Deepti Das Krishna, Assistant Professor, Department of Electronics	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Abdulla P, Professor, Division of Electronics and Communication Engineering, School of Engineering 2. Dr. Nalesh S, Assistant Professor, Department of Electronics	
Head of Account		1-98-0-U-1-054	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	RF Switches and Accessories	4,00,000	0
2	Multichannel USRP and Accessories	7,00,000	7,00,000
Total	18,00,000	11,00,000	7,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,32,000	4,32,000
2	Consumables	50,000	50,000
3	Contingency	1,38,000	1,40,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	40,000	38,000
6	Computers/Softwares/Minor Components	11,00,000	15,00,000
7	Seminars/Conferences	0	0
8	Workshops and Skill Training	40,000	40,000
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	0
Total	40,00,000	18,00,000	22,00,000
Grand Total	58,00,000	29,00,000	29,00,000

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4J , Design and Development of a Robot Controller for Synchronized Cooperative Control of Heterogenous Industrial Robot Arms	
Name & Designation of the Principal Investigator		Dr. Tripti S Warriar, Assistant Professor, Department of Electronics	
Name & Designation of the Co-Principal Investigator(s)		Sri. Ratheesh P M, Assistant Professor, Department of Instrumentation	
Head of Account		1-98-0-U-1-055	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Mobile Robot Development Platform	11,00,000	0
2	Robotics Arm	0	11,00,000
Total	22,00,000	11,00,000	11,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	8,15,000	11,00,000
2	Consumables	2,50,000	2,50,000
3	Contingency	1,00,000	1,00,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	90,000	1,00,000
5	Travel	45,000	30,000
6	Computers/Softwares/Minor Components	4,50,000	2,00,000
7	Seminars/Conferences	0	0
8	Workshops and Skill Training	50,000	36,000
9	Internships to PG and UG Students	50,000	50,000
10	Books and Journals	0	0
Total	37,16,000	18,50,000	18,66,000
Grand Total	59,16,000	29,50,000	29,66,000

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4K , Building Self Sustainable Smart Cities Through Energy Efficient Homes Using Intelligent Design	
Name & Designation of the Principal Investigator		Dr. Santhosh Kumar G, Professor, Department of Computer Science	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. V Sivanandan Achari, Professor, School of Environmental Studies 2. Dr. Deepa G Nair, Professor, Divison of Civil Engineerng, School of Engineering	
Head of Account		1-98-0-U-1-056	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Advanced PLC based Data Collection/ Acquisition/Logging Hardware System	2,50,000	0
2	Smart Energy Meters	0	2,50,000
Total	5,00,000	2,50,000	2,50,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	14,50,000	11,10,000
2	Consumables	1,00,000	1,00,000
3	Contingency	50,000	50,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	3,20,000	3,20,000
5	Travel	20,000	40,000
6	Computers/Softwares/Minor Components	11,00,000	12,80,000
7	Seminars/Conferences	0	1,80,000
8	Workshops and Skill Training	0	1,20,000
9	Internships to PG and UG Students	1,60,000	0
10	Books and Journals	0	0
Total	64,00,000	32,00,000	32,00,000
Grand Total	69,00,000	34,50,000	34,50,000

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4L, Material Characterisation and Defect Sizing by Tone Burst Eddy Current Thermography	
Name & Designation of the Principal Investigator		Dr. Biju N, Professor, Division of Mechanical Engineering, School of Engineering	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Tide P S, Professor, Division of Mechanical Engineering, School of Engineering 2. Dr. M R Radhakrishna Panicker, Professor, Division of Mechanical Engineering, School of Engineering 3. Dr. Gireesh Kumaran Thampi B S, Professor, Division of Mechanical Engineering, School of Engineering	
Head of Account		1-98-0-U-1-057	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	CNC milling machine	15,00,000	0
2	Infrared camera with associated software and data acquisition system	0	15,00,000
Total	30,00,000	15,00,000	15,00,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,80,000	4,80,000
2	Consumables	1,50,000	2,00,000
3	Contingency	1,50,000	1,50,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	2,50,000
5	Travel	0	1,00,000
6	Computers/Softwares/Minor Components	15,00,000	8,00,000
7	Seminars/Conferences	0	1,20,000
8	Workshops and Skill Training	0	1,00,000
9	Internships to PG and UG Students	0	1,20,000
10	Books and Journals	0	0
Total	46,00,000	22,80,000	23,20,000
Grand Total	76,00,000	37,80,000	38,20,000

RUSA 2.0 - Major Projects

Theme 4 : Engineering Sciences

Project Number & Project Title		T4N , Performance Enhancement of Renewable Energy Integrated Systems	
Name & Designation of the Principal Investigator		Dr. P G Latha, Associate Professor, Division of Electrical and Electronics Engineering, School of Engineering	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Gireesh Kumaran Thampi B S, Professor, Division of Mechanical Engineering, School of Engineering 2. Dr. Asha Elizabeth Daniel, Professor, Division of Electrical & Electronics Engineering, School of Engineering 3. Dr. Biju N, Professor, Division of Mechanical Engineering, School of Engineering 4. Dr. James Varghese, Professor, Division of Mechanical Engineering, School of Engineering	
Head of Account		1-98-0-U-1-058	
Budget		(Amount in Rupees)	
Sl. No.	Item - Hard Components (in the Priority Order of Purchase)	Phase I	Phase II
1	Switched Reluctance Motor Drive (Motor+ loading arrangement+ Controller + Position encoder)	3,00,000	0
2	Power Electronic Converter Systems	7,00,000	0
3	Solar PV emulator	7,25,000	0
4	Solar PV modules	0	2,50,000
5	Vibration Analyzer	0	5,00,000
6	Programmable load	0	3,50,000
7	Solar thermal collectors	0	1,50,000
8	Measuring devices (Thermocouple, Radiation meter, Anemometer etc.)	0	75,000
9	Data Acquisition systems	0	75,000
10	Infrared Camera	0	1,75,000
11	Battery & inverter	0	1,50,000
Total	34,50,000	17,25,000	17,25,000
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,50,000	5,50,000
2	Consumables	1,00,000	1,60,000
3	Contingency	60,000	60,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	2,00,000	1,50,000
5	Travel	50,000	50,000
6	Computers/Softwares/Minor Components	5,50,000	4,50,000
7	Seminars/Conferences	12,000	12,000
8	Workshops and Skill Training	30,000	20,000
9	Internships to PG and UG Students	30,000	30,000
10	Books and Journals	0	0
Total	29,64,000	14,82,000	14,82,000
Grand Total	64,14,000	32,07,000	32,07,000

RUSA 2.0 - Major Projects

Theme 5 : Humanities and Social Science

Project Number & Project Title		T5C , Climate Change Consciousness in Law : An Overview	
Name & Designation of the Principal Investigator		Dr. Aneesh V Pillai, Assistant Professor, School of Legal Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. P S Seema, Associate Professor, School of Legal Studies 2. Smt. Arathi Ashok, Assistant Professor, School of Legal Studies 3. Dr. Sangeetha K Prathap, Assistant Professor, School of Legal Studies	
Head of Account		1-98-0-U-1-059	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,31,520	0
2	Consumables	0	0
3	Contingency	35,000	35,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	0	0
6	Computers/Softwares/Minor Components	0	0
7	Seminars/Conferences	0	0
8	Workshops and Skill Training	1,73,480	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	25,000
Total	7,00,000	6,40,000	60,000

RUSA 2.0 - Major Projects

Theme 5 : Humanities and Social Science

Project Number & Project Title		T5E , Conservation and Mangement of Forest Resources and Welfare of Tribal Populations in State of Kerala	
Name & Designation of the Principal Investigator		Dr. Sreejith S, Assistant Professor, School of Legal Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Harigovind P C, Assistant Professor, School of Legal Studies 2. Dr. Naveen S, Assistant Professor, School of Legal Studies 3. Dr. Nemat Shereen S, Assistant Professor, School of Legal Studies 4. Dr. Irshad M R, Assistant Professor, Department of Statistics 5. Dr. Sivanandan Achari, Associate Professor, School of Environmental Studies 6. Dr. Junaid Bushiri, Professor, Department of Physics	
Head of Account		1-98-0-U-1-060	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	3,59,600	0
2	Consumables		
3	Contingency	25,000	25,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	2,00,000	0
6	Computers/Softwares/Minor Components	40,400	0
7	Seminars/Conferences	0	0
8	Workshops and Skill Training	1,00,000	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	1,00,000
Total	8,50,000	7,25,000	1,25,000

RUSA 2.0 - Major Projects

Theme 5 : Humanities and Social Science

Project Number & Project Title		T5F , Impact of IP on Agriculture, Access to Information and Promotion of Innovation in India	
Name & Designation of the Principal Investigator		Dr. M Bhasi, Senior Professor, School of Management Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. I G Rathish, Assistant Professor, Inter University Centre for IPR Studies 2. Dr. Anson C J, Assistant Professor, Inter University Centre for IPR Studies 3. Dr. Kavitha Chalakkal, Assistant Professor, Inter University Centre for IPR Studies 4. Dr. Vishnu Sankar, Assistant Professor, Inter University Centre for IPR Studies	
Head of Account		1-98-0-U-1-061	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	14,12,000	0
2	Consumables	0	0
3	Contingency	1,50,000	1,50,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	3,00,000	0
6	Computers/Softwares/Minor Components	10,50,000	0
7	Seminars/Conferences	13,08,000	0
8	Workshops and Skill Training	0	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	5,00,000
Total	48,70,000	42,20,000	6,50,000

RUSA 2.0 - Major Projects

Theme 5 : Humanities and Social Science

Project Number & Project Title		T5G , Effectiveness of Regulatory and Policy Control over Primary Health Centres in the State of Kerala	
Name & Designation of the Principal Investigator		Dr. Vani Kesari A, Associate Professor, School of Legal Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. S M Sunoj, Professor, Department of Statistics 2. Dr. Santhosh Kumar S, Professor, School of Management Studies 3. Dr. Binu Mole K, Assistant Professor, School of Legal Studies 4. Dr. Preetha S, Assistant Professor, School of Legal Studies 5. Dr. Nemat Sheereen S, Assistant Professor, School of Legal Studies	
Head of Account		1-98-0-U-1-062	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	3,59,600	0
2	Consumables	60,000	0
3	Contingency	35,200	35,200
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	2,00,000	0
6	Computers/Softwares/Minor Components	75,000	0
7	Seminars/Conferences	62,500	0
8	Workshops and Skill Training	62,500	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	1,60,000
Total	10,50,000	8,54,800	1,95,200

RUSA 2.0 - Major Projects**Theme 5 : Humanities and Social Science**

Project Number & Project Title		T5H , A Study of Subaltern Literature in India	
Name & Designation of the Principal Investigator		Dr. Aneesh K N, Assistant Professor, Department of Hindi	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Girishkumar K K, Assistant Professor, Department of Hindi 2. Dr. Aneesh V Pillai, Assistant Professor, School of Legal Studies	
Head of Account		1-98-0-U-1-063	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,31,520	0
2	Consumables	0	0
3	Contingency	25,000	25,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	2,00,000	0
6	Computers/Softwares/Minor Components	0	0
7	Seminars/Conferences	2,00,000	0
8	Workshops and Skill Training	0	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	4,00,000
Total	12,81,520	8,56,520	4,25,000

RUSA 2.0 - Major Projects

Theme 5 : Humanities and Social Science

Project Number & Project Title		T51 , Sustainable Urbanisation and IP - Study on the impact of Urbanisation on its Traditional and Collective Intellectual Property with Specific Reference to Kochi	
Name & Designation of the Principal Investigator		Smt. Arathi Ashok, Assistant Professor, School of Legal Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Seema P S, Associate Professor, School of Legal Studies 2. Dr. Aneesh V Pillai, Assistant Professor, School of Legal Studies 3. Dr. Anson C J, Assistant Professor, Inter University Centre for IPR Studies	
Head of Account		1-98-0-U-1-064	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	2,16,000	0
2	Consumables		0
3	Contingency	25,000	25,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	25,000	0
6	Computers/Softwares/Minor Components	75,000	0
7	Seminars/Conferences	1,55,000	0
8	Workshops and Skill Training	0	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	3,00,000
Total	8,21,000	4,96,000	3,25,000

RUSA 2.0 - Major Projects

Theme 5 : Humanities and Social Science

Project Number & Project Title		T5J , Capacity Building of Women Through Entrepreneurship Development Programmes : Design, Implementation and Impact Assessment	
Name & Designation of the Principal Investigator		Dr. Sangeetha K Prathap, Assistant Professor, School of Management Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Jagathy Raj V P, Senior Professor, School of Management Studies 2. Dr. Aneesh V Pillai, Assistant Professor, School of Legal Studies	
Head of Account		1-98-0-U-1-065	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,32,000	0
2	Consumables	0	0
3	Contingency	1,00,000	1,00,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	4,32,000	0
5	Travel	1,50,000	0
6	Computers/Softwares/Minor Components	2,00,000	0
7	Seminars/Conferences	0	0
8	Workshops and Skill Training	1,86,000	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	0
Total	16,00,000	15,00,000	1,00,000

RUSA 2.0 - Major Projects

Theme 5 : Humanities and Social Science

Project Number & Project Title		T5K , Circular Economy and Sustainable Development : Evidence From Cities of Kerala	
Name & Designation of the Principal Investigator		Dr. Santhosh Kumar P K, Honorary Director, Centre for Budget Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. S Hari Kumar, Professor, Department of Applied Economics 2. Dr. Jagathy Raj V P, Professor, School of Management Studies 3. Dr. Aneesh V Pillai, Assistant Professor, School of Legal Studies	
Head of Account		1-98-0-U-1-066	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	6,00,000	0
2	Consumables	20,000	0
3	Contingency	25,000	25,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	0	0
5	Travel	1,40,000	0
6	Computers/Softwares/Minor Components	1,00,000	0
7	Seminars/Conferences	1,00,000	0
8	Workshops and Skill Training	0	0
9	Internships to PG and UG Students	1,00,000	0
10	Books and Journals	0	4,00,000
Total	15,10,000	10,85,000	4,25,000

RUSA 2.0 - Major Projects

Theme 5 : Humanities and Social Science

Project Number & Project Title		T5L , Psychological Contract Between Female Domestic Workers and Employers : Labour Relations Perspective	
Name & Designation of the Principal Investigator		Dr. Devi Soumyaja, Assistant Professor, School of Management Studies	
Name & Designation of the Co-Principal Investigator(s)		1. Dr. Sangeetha K Prathap, Assistant Professor, School of Management Studies 2. Dr. Aneesh V Pillai, Assistant Professor, School of Legal Studies	
Head of Account		1-98-0-U-1-067	
Budget		(Amount in Rupees)	
Sl. No.	Item - Soft Components	Phase I	Phase II
1	Manpower (JRF/SRF/Project Assistant/Post Doc)	4,31,520	0
2	Consumables	0	0
3	Contingency	50,000	50,000
4	Hiring of Technical Services, Analysis and Testing Charges, Data Collection expenses	25,000	99,980
5	Travel	1,50,000	0
6	Computers/Softwares/Minor Components	2,00,000	0
7	Seminars/Conferences	50,000	0
8	Workshops and Skill Training	75,000	0
9	Internships to PG and UG Students	0	0
10	Books and Journals	0	3,00,000
Total	14,31,500	9,81,520	4,49,980