

Research Projects During the Year 2022-23

Institute Name	New Horizon College Of Engineering							
India Ranking 2024	IR-E-C-1371							
Discipline	Engineering							
Parameter	Research Projects							
SL.N O	Financial Year	Department	Name of the Faculty (Principal Investigator)	Name of the Funding Agency	Title of the Project	Sanctioned Order No.	Sanctioned Date	Amount Received (in Rupees)
1	2022-23	ME	Dr. Srinath. M. K and Dr. Manjunatha	Vision Group of Science & Technology , Govt. of	Centre of Excellenec in Bio-Mechancial Engineering Sciences	GRD no. 1007	15-02-2023	40,00,000
2	2022-23	ME	Dr.Manjunatha Prof.Sridhar Cruise Dr. Rajalakshmi B Dr.S.Sujitha Dr. Aravinda Dr. Mohan	Itca,Unisec India,Drl, Tsc P Ltd	Phase 2 - Development Of " Dual CardSatellite-Bus (DICS-B)": 10Cm X10 Cm (Timeline: 24 Months). Indo-Israel Joint Development <i>(Mech: Design And Development Of Satellite Modular Structure,Machining, Orbital Mechanics-Calculation-Simulation)</i>	Unisec/ITCA/TCS/DICS-B/003	26-07-2022	10,75,000
3	2022-23	ME	Dr.Manjunatha Prof.Sridhar Cruise Dr. Rajalakshmi B Dr.S.Sujitha Dr. Aravinda Dr. Mohan	Itca,Unisec India,Drl, Tsc P Ltd	Design And Development Of Cubesat 3u; ADSB Including Launch Cost; Indo-Israel Joint Development Under Unisec India. <i>(Mech: Design And Development Of Satellite Modular Structure,Machining, OrbitalMechanics-Calculation-Simulation)</i>	Unisec/ITCA/TCS/Cubesat /005	28-01-2023	525000
4	2022-23	ECE	Dr.Manjunatha Dr .Sridhar Cruise Dr. Rajalakshmi B Dr.S.Sujitha Dr. Aravinda Dr. Mohan	Itca,Unisec,India,Drl, Tsc P Ltd	Phase 2 - Development Of " Dual CardSatellite-Bus (DICS-B)": 10Cm X10 Cm (Timeline: 24 Months). Indo-Israel Joint Development <i>(ECE: MODULAR STRUCTURE SAT, SDR, LORA Interface- onboard systems and subsystems, firmware coding, Antenna Deployment, Integration Services, Testing and Qualfications for launch etc)</i>	Unisec/ITCA/TCS/DICS-B/003	26-07-2022	8,00,000
5	2022-23	ECE	Dr.Manjunatha Dr.Sridhar Cruise Dr. Rajalakshmi B Dr.S.Sujitha Dr. Aravinda Dr. Mohan	Itca,Unisec India,Drl, Tsc P Ltd	Design And Development Of Cubesat 3u;ADSB Including Launch Cost; Indo-Israel Joint Development Under Unisec India. <i>(ECE: MODULAR STRUCTURE SAT, SDR, LORA Interface- onboard systems and subsystems, firmware coding, Antenna Deployment, Integration Services, Testing and Qualfications for launch etc)</i>	Unisec/ITCA/TCS/Cubesat /005	28-01-2023	4,00,000
6	2022-23	CSE	Dr.Manjunatha Dr .Sridhar Cruise Dr. Rajalakshmi B Dr.S.Sujitha Dr. Aravinda Dr. Mohan	Itca,Unisec,India,Drl, Tsc P Ltd	Phase 2 - Development Of " Dual CardSatellite-Bus (DICS-B)": 10Cm X10 Cm (Timeline: 24 Months). Indo-Israel Joint Development <i>(CSE: On Board Computer (OBC), Coding and Programming Responsibilities)</i>	Unisec/ITCA/TCS/DICS-B/003	26-07-2022	12,00,000
7	2022-23	CSE	Dr.Manjunatha Dr.Sridhar Cruise Dr. Rajalakshmi B Dr.S.Sujitha Dr. Aravinda Dr. Mohan	Itca,Unisec India,Drl, Tsc P Ltd	Design And Development Of Cubesat 3u; Adsb Including Launch Cost; Indo-Israel Joint Development Under Unisec India. <i>(CSE: On Board Computer (OBC), Coding and Programming Responsibilities)</i>	Unisec/ITCA/TCS/Cubesat /005	28-01-2023	8,00,000

8	2022-23	ISE	Dr.Manjunatha Dr.Sridhar Cruise Dr. Rajalakshmi B	Itca,Unisec India,Drl, Tsc P Ltd	Phase 2 - Development Of " Dual CardSatellite-Bus (DICS-B)": 10Cm X10 Cm (Timeline: 24 Months). Indo-Israel Joint Development	Unisec/ITCA/TCS/DICS-B/003	26-07-2022	12,00,000
9	2022-23	ISE	Dr.Manjunatha Dr.Sridhar Cruise Dr. Rajalakshmi B	Itca,Unisec India,Drl, Tsc P Ltd	Design And Development Of Cubesat 3u; Adsb Including Launch Cost; Indo-Israel Joint Development Under UnisecIndia.	Unisec/ITCA/TCS/Cubesat /005	28-01-2023	8,00,000
10	2022-23	EEE	Dr.Manjunatha Dr.Sridhar Cruise Dr. Rajalakshmi B	Itca,Unisec India,Drl, Tsc P Ltd	Phase 2 - Development Of " Dual CardSatellite-Bus (DICS-B)": 10Cm X10 Cm (Timeline: 24 Months). Indo-Israel Joint Development	Unisec/ITCA/TCS/DICS-B/003	26-07-2022	8,00,000
11	2022-23	EEE	Dr.Manjunatha Dr.Sridhar Cruise Dr. Rajalakshmi B	Itca,Unisec India,Drl, Tsc P Ltd	Design And Development Of Cubesat 3u;ADSB Including Launch Cost; Indo-Israel Joint Development Under Unisec India.	Unisec/ITCA/TCS/Cubesat /005	28-01-2023	4,00,000
12	2022-23	AS - Chemistry	Dr. Bhavya P	Vision Group of Science & Technology , Govt. of Karnataka	Analysis of novel hetrocyclic compound for photophysical properties and their biological activity through fluprescence quenching by spectroscopic and	GRD no. 1106	15-02-2023	3,00,000
13	2022-23	AU	Prof. Smitha B S	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Fabrication of low-cost automatic fire extinguisher system	46S_BE_4837	12-05-2023	5,000.00
14	2022-23	AU	Prof. Smitha B S	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Design and development of e-bike for physically challenged people	46S_BE_5117	12-05-2023	6,000.00
15	2022-23	CIVIL	Dr. Mahesha N	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Quantitative analysis and assessment of embodied carbon reduction from residential building	46S_BE_5229	12-05-2023	4,000.00
16	2022-23	CIVIL	Mrs. Senhal R L Mr. Rajendra	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	An experimental study on strength of basalt fibers reinforced concrete	46S_BE_5304	12-05-2023	4,000.00
17	2022-23	CSE	Mrs. Chempavathy B Dr. B. Meenakshi Sundaram	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	An experimental analysis on mitigating the effects of malicious nodes in a federated learning system	46S_BE_3335	12-05-2023	4,000.00
18	2022-23	CSE	Dr. K Ashok Dr. B Rajalakshmi	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Women safety analysis system using machine learning on different social media platform	46S_BE_3463	12-05-2023	3,000.00
19	2022-23	CSE	Prof. D. Salangai Nayegi Dr. Dhanalakshmi	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Vulnerability analysis architecture utilizing auto encoding bayesian algorithm	46S_BE_3532	12-05-2023	4,000.00
20	2022-23	CSE	Dr. Tejas K R Dr. B.Rajalakshmi	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Image recognition and enhancement using multi-scale retinex and histogram equalization	46S_BE_3651	12-05-2023	4,000.00
21	2022-23	CSE	Mr. Geluvaraj B Mr. Santosh Kumar B V	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	2D images to high resolution 3d human digitization	46S_BE_4062	12-05-2023	4,000.00
22	2022-23	CSE	Mr. Santhosh Kumar Dr. Rachana P	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Smart gloves development implementing tinyml for real-time sign language recognition	46S_BE_4317	12-05-2023	4,000.00
23	2022-23	CSE	Ms. Florance G	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Encephalon - solve and learn	46S_BE_4447	12-05-2023	3,000.00
24	2022-23	CSE	Mrs. Thanga Subha Devi Dr. Nirmala M	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Student's soul: the Non Transferable token	46S_BE_4513	12-05-2023	4,000.00

25	2022-23	CSE	Dr. D.Roja Rani	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Cytocol - online law system	46S_BE_4791	12-05-2023	3,500.00
26	2022-23	CSE	Mrs. Priya T V Dr. B. Meenakshi Sundaram	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Predictive protection of sensitive data	46S_BE_4924	12-05-2023	3,000.00
27	2022-23	EEE	Dr. S. Sujitha	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Design and fabrication of quad bike for physically challenged	46S_BE_0001	12-05-2023	5,000.00
28	2022-23	EEE	Prof. Surat Pyari Atti Dr. S. Sujitha	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Artificial intelligence based self- driving car using robotic model	46S_BE_0442	12-05-2023	5,000.00
29	2022-23	EEE	Mrs. Karthika M. Dr. Mohan Das R.	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Design and implementation of solar fed flood alert system using bolt wi- fi module	46S_BE_0716	12-05-2023	4,000.00
30	2022-23	EEE	Ms. Soumya K V Dr. S Sujitha	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Silent surveillance autonomous drone for disaster management and military security using artificial intelligence	46S_BE_0900	12-05-2023	5,000.00
31	2022-23	ECE	Dr. Piruthiviraj P	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Analysis of air pollution in a smart city infrastructure using IoT	46S_BE_1198	12-05-2023	5,000.00
32	2022-23	ECE	Mrs. Nayana G H Dr. Aravinda K	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	IoT based smart home systems for specially abled and aged users	46S_BE_2022	12-05-2023	5,000.00
33	2022-23	ECE	Mrs. Sabitabrata Bhattacharya Mr. Parag Jain	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Remote driver monitoring system	46S_BE_3474	12-05-2023	5,000.00
34	2022-23	ECE	Mrs. Amarjeet Pal Cheema	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Animal detection for farmlands using image processing	46S_BE_3942	12-05-2023	5,000.00
35	2022-23	ECE	Mrs. Baby Chithra Mrs. Salna Joy	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Traffic rule violation recognition	46S_BE_4076	12-05-2023	4,000.00
36	2022-23	ECE	Prof. Bhawna Khokher Dr. Mamta Savadatti	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	IoT-based high security smart locker	46S_BE_4165	12-05-2023	4,000.00
37	2022-23	ISE	Ms. Suvika K V Dr. Mohan H S	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	A study on communication skills and personality traits detection using avi	46S_BE_0876	12-05-2023	4,000.00
38	2022-23	ISE	Mrs. Sony M Kuriakose	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Wireless voice-controlled robot	46S_BE_1008	12-05-2023	5,000.00
39	2022-23	ISE	Dr. B. Swathi	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Greenworkline-An AI based assistant for self-farming	46S_BE_1112	12-05-2023	3,000.00
40	2022-23	ISE	Prof. M Shanmugam Shoba	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Biometric authentication in ATMs using RFID	46S_BE_1330	12-05-2023	4,000.00
41	2022-23	ISE	Dr. Mohan H S	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	A novel approach to record and narrate the summary of conversation for alzheimer patients	46S_BE_1864	12-05-2023	5,000.00

42	2022-23	ISE	Dr. Kalaivani D Dr. Mohan H S	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	An application to scan the resume using nltk and spacy	46S_BE_3719	12-05-2023	3,000.00
43	2022-23	ISE	Prof. Kiran Kumar Bonthu	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Audio and text to sign language converter	46S_BE_3748	12-05-2023	4,000.00
44	2022-23	ISE	Dr. Arvind Kapse	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Multilingual toxic comment classifier	46S_BE_4419	12-05-2023	4,000.00
45	2022-23	ISE	Ms. Bibiana Jenifer	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Qr code-based authentication for login / payment	46S_BE_5443	12-05-2023	3,500.00
46	2022-23	MCA	Mrs. Binju Saju Dr. V.Asha	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Speech to text conversion	46S_MCA_009	12-05-2023	4,000.00
47	2022-23	MCA	Dr. B.Nithya Ramesh Dr. V.Asha	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Mind game collection framework	46S_MCA_017	12-05-2023	4,000.00
48	2022-23	MCA	Dr. A.P Nirmala	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	E-learning portal	46S_MCA_019	12-05-2023	5,000.00
49	2022-23	MCA	Dr. V. Asha Ms. Neethu Tressa	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	CLI based chat tool	46S_MCA_030	12-05-2023	5,000.00
50	2022-23	ME	Dr. Sudarshan T A	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Design and fabrication of multi-mode bi-copter	46S_BE_0458	12-05-2023	6,000.00
51	2022-23	ME	Dr. Gayatri Tanuja G	Karnataka State Council for Science and Technology (KSCST), Indian Institute of	Blind-aid spectacle for visually impaired people using deep learning algorithms and face recognition techniques	46S_BE_0538	12-05-2023	6,000.00
52	2022-23	ME	Mr. Shiva Prakash	Karnataka State Council for Science and Technology	Developing a system to prevent accidents from sleep driving	46S_BE_0757	12-05-2023	6,000.00
53	2022-23	ME	Mr. Veerasha G	Karnataka State Council for Science and Technology (KSCST), Indian Institute of Science, Bangalore - 560052	Design and fabrication of lake water cleaning system	46S_BE_0849	12-05-2023	6,000.00
54	2022-23	ME	Mr. Sujeeth Swami	Karnataka State Council for Science and Technology (KSCST), Indian Institute of Science, Bangalore - 560053	Bluetooth based Agrobot for spraying pesticides	46S_BE_1316	12-05-2023	5,000.00
55	2022-23	ME	Dr. Shridhar Kurse	Karnataka State Council for Science and Technology (KSCST), Indian Institute of Science, Bangalore - 560054	Mechatronics and development of unmanned ground vehicle for military purpose.	46S_BE_1383	12-05-2023	6,000.00

TOTAL: Fourty Four Lakhs Ninty One Thousand Only

1,24,91,000.00