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Para No.	Subject: Kakatiya University, Warangal UGC Unit - <i>Rashtriya Uchchatar Shiksha Abhiyan</i> (<i>RUSA</i>) 2.0 - support for the Major Research Project in Science to University teachers – Certain modifications to the approved note Dt.17-11-2022- Reg.	Ref. No.
	RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN (RUSA) COMPONENT-10-RESEARCH INNOVATION AND QUALITY IMPROVEMENT Kakatiya University, Warangal-506 009, Telangana State-India	
1	Ref: 1) Proceedings of the Commissioner of Collegiate Education & State project Director, (RUSA) File No.RUSA-RC10/1/2020-O/o PO-RUSA 2) Minutes of the 12 th PAB meeting of MHRD Dt.25-05-2018 3) F.No.24-25/2014-U.Policy (TLMullti-Gen, SC, ST) of MHRD, Gol., Dt.15-07-2019 4) Lr.No.103/UGC/KU/2020 Dt.27-07-2020 of the Registrar, Kakatiya University, Warangal 5) Lr.No.EE/TSEWIDC/WGL/K-Hub/2020-21 Dt.24-07-2020 of the Executive Engineer, TSEWIDC, Warangal. 6) Note approved on 17-11-2022. The RUSA was established with the key objectives to improve access, equity and quality in higher education through planned development of higher education at the state level. Objectives include creating new academic institutions, expanding and upgrading the existing ones, developing institutions that are self-reliant in terms of quality education, professionally managed, and characterized by greater inclination towards research and provide students with education that is relevant to them as well the nation as a whole.	
2	The Project Approval Board (PAB) in its 12 th meeting held under the Chairmanship of Sh.R.Subrahmanyam, Secretary (HE) MHRD, at India International Centre on 25 th may 2018 has resolved under Component 10 – Research, Innovation and Quality improvement, (16) Universities (list at Annexure-7) have identified to receive an amount of Rs.50 crores each under the Research and Innovation component. Total of Rs.800 crores have been approved.	
3	Adverting to the subject cited and in view of the approval of PAB vide reference 2 nd cited, the Commissioner of Collegiate Education & State Project Director (RUSA) in his proceedings cited at reference 1 st cited, has stated that the Kakatiya university was approved with a total grant of Rs.50.00 crore in the sharing pattern of 60:40 central share and State share respectively under RUSA 2.0.	



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Earlier the faculty in Kakatiya University have submitted the detailed research project proposals individually and also on behalf of centres under RUSA – Component 10 – Research, Innovation and quality improvement. All the proposals were evaluated by the external experts and the recommended proposals are approved by the Hon'ble Vice Chancellor of Kakatiya University (Ref.6).

The note approved on 17-11-2022 (Ref.6) under the research project proposals to centres at S.No. 6 and 10 is hereby modified as below:

RASHTRIYA UCHCHATAR SHIKSHA ABHIYAN (RUSA) COMPONENT-10-RESEARCH INNOVATION AND QUALITY IMPROVEMENT Kakatiya University, Warangal-506 009, Telangana State-India

Research Proposals approved for individual faculty members:

Sl. No.	Department	Title of Research & Innovation Projects	Amount (Rs.In Lakhs)
01	Zoology	Soil arthropods (micro and macro fauna) earthworms and estimation of physico-chemical parameters in the soil in organic and conventional agro-ecosystems in Telangana (Dr. E.Narayana)	20.164
02		Molecular and Biochemical Characterization of Parotoid Gland Secretion and its extract of Bufo melanostictus (Dr. Y. Venkaiah)	20.814
03		Studies of DNA and RNA components of nuclear matric in Antheraea mylitta (Dr.V.Shamitha)	21.565
04		Validating ethno-medicines from tribal areas of Telangana with a view to isolation and developing new drug molecule for targeting HIV (Dr.M.Estari)	19.764
		Sub Total	82.307
05	Sericulture	Isolation of bioactive compounds from Annona muricata its effect on rearing performance & antibacterial activity in mulberry silkworm, B. Mari I. (Dr. K. Sujatha)	32.684
06	Microbiology	Purification and characterization of bioactive molecules from microbes for synthesis of industrially important products. (Dr.M.Srinivas) And (Dr.M.Srinivas and others)	62.128



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07	Biotechnology	Application of plant transformation methods and	35.16
		genome editing tools for crop improvement and	
		enhancement of secondary metabolites of higher	
		plants. (Dr.A. Venkateshwar Rao)	
08	Computer Science	Casual data mining approach to study the Inter-	14.9152
	1	relationship between Cardio Vascular Diseases	
		and Renal System Failure (Dr.B. Rama)	
09		Security management system (SMS) for health	17.2844
		care data in cloud platform (Dr.B.Manjula)	
		Sub Total	32.1996
10	Pharmacy	Development of nanocarrier drug delivery	12.4389
10	1 Harmacy	systems for brain targeting via intranasal route for	
		the treatment of neurodegenerative disorders (Dr.J.	
		Krishnaveni)	
1.1			25.00
11		Development of New indole derivatives as	23.00
10		antidepressants (Prof. M. Sarangapani)	14.60
12		Design, synthesis and screening of new	14.00
		heterocyclic compounds for neurodegenerative	
		disorders (Dr.G.Sammaih)	47.6404
13		Overcoming P-Glycoprotein-Mediated multi drug	47.6404
		resistance in rats with Colorectal Cancer: Potential	
		Reversal Compounds from secretions of common	
		Indian toad (Dr.N. Prasad, Dr.Y.Narasimha reddy,	
		Dr.Swarupa Rani)	
		Sub Total	99.6793
14	Botany	Wild Medicinal Cucurbits – Therapeutic	35.346
		compounds and Conservation (Dr.M.Surekha)	
15	Physics	DFT computations for molecular structure and	33.6956
		characteristics of some biomolecules	
		(Prof.B. Venkatram Reddy)	
16	Geology	The miaskitic alkaline magmatic activity across	23.314
		the Cuddapah intrusive province: A	
		comprehensive petrological and geochemical	
		study. (Prof.R.Mallikarjuna Reddy)	
17	Mathematics	Study of Micro and Poroelastic Solids by using	13.7242
		Complex Analysis and Numerical Techniques.	
		(Prof.P.Malla Reddy)	
18		Markov models in reliability: performance study	10.8727
		(Dr.T.Sumathi Umamaheshwari)	
		Sub Total	24.596



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19	Chemistry Design, Synthesis and in silico/in vitro studies of tryptanthrin derivatives as potent anticancer agents and IDO1 inhibitors (Dr. Mamatha)		
20		and IDO1 inhibitors (Dr. Mamatha) Thermodynamic investigations of Cholinergic Drugs (Acetycholine, Bethanechol and Carbachol)	10.8152
21		at various Temperatures (Dr.Savitha Jyosthna) Improving the Medicinal Properties of 1,2,4 triazole and Bis-isatin Drugs via Metal Complexation: Investigations based on Rational Design, Synthesis and Structure-Activity Studies	11.8304
22		(Dr.S.Jyothi) Synthesis and Biological Evaluation of New N- Heterocyclic compounds derived from Dichlone (Dr.G.Brahmeshwari)	25.562
23		Design and green synthesis of novel coumarin derivatives and their studies on anticancer and antitumor activities (Dr.G.Hanumanthu)	16.2552
24		Development of Riboflavin Binding Protein Anticancer Drug Conjugates (Dr.J.Madhukar)	29.3152
		Sub Total	113.0936
25	English	English for Social Empowerment: Towards an Add-on Course to Low Achieving learners	23.1108
26	Telugu	Telangana Jatharalu – Sahithya Samskruthika Adhyayanam	19.2689
27	Economics	Livelihood and Entrepreneurial Development through Minor Irrigation in Telangana State – With special reference to Mission Kakatiya (Dr.B.Suresh Lal)	22.5608
28	Public Administration	Corporate social responsibilities in IT Industry- Issues and Challenges (Dr.P.Srinivas Rao)	20.2608
29	Law	Climate Change and Disaster Management: Law & Policy in India (Dr.M.Srinivas)	19.2608
30	History & Tourism Management	Village culture in Telangana: A study of Communities, Crafts, Fairs and Festivals.	19.7608
31	Social Work	Welfare and Development schemes for marginalized communities in Telangana State (Prof T Ramesh)	19.7608
32	Sociology	Sexual Violence on women and Socio Economic determinants of rape offenders: A sociological study (Dr.M.Swarnalatha)	19.7608
33	Commerce & Business Management	Investors Protection in India-The role of Corporate	31.276



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	Dranem odd o	0.2202
Engineering &	Identifying Regional Dialects by Using Text	9.3202
Technology	independent Speech Processing Models	
	(M.Sadanandam)	0.51.50
	An Intelligent Doctor assistant for effective	8.7152
	diagnosis using Machine learning (N.Ramana)	12.01.50
	Design and Analysis of FinFET based	19.8152
	combinational circuits for low power applications	
		14.3402
	ameliorate face recognition (K. Punnamchander)	
	Control of the Contro	
		16.2692
	Brain Tumor detection, classification from	16.3682
	Magnetic Resonance Images using Innovative	
	Machine learning algorithms and diversified	
	applications to Biological Covid Virus.	
	(Prof. T.Srinivasulu)	
		85.8742
	Total (Rs. In Lakhs)	850.3665
	_	Technology independent Speech Processing Models (M.Sadanandam) An Intelligent Doctor assistant for effective diagnosis using Machine learning (N.Ramana) Design and Analysis of FinFET based combinational circuits for low power applications (Mr. Bikshalu) 3D Face image Acquisition and processing to ameliorate face recognition (K. Punnamchander) Brain Tumor detection, classification from Magnetic Resonance Images using Innovative Machine learning algorithms and diversified applications to Biological Covid Virus. (Prof. T.Srinivasulu) Sub Total

Research Project Proposals approved to centres:

Sl No:	Name of the Program	Participants (Centre/Dept./ Unit)	Budget (Rs. in Lakhs)		
			Recurring	Non- Recurring	Total
В	Research and Innovation	n (R & I)			1
1	RUSA-KU-Central Instrumentation Centre (R-CIC)	1.CIC	40	645	685
2	RUSA-KUCentre for Drug Research (R-CDR)	1. Pharmacy	152.5216	242.92	395.4416
		2. Microbiology			
3	RUSA-KUCentre for Molecules & Material Physics (R- MMP)	A) Physics	28.446		28.446



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4	RUSA-KU-Centre for Nano Drug Deliversy Systems (R-NDDS)	B) Pharmacy	56.268	109.5	165.768
5	RUSA-KU-Centre for Ethnomedicinal Plants (R-CEMP)	 Zoology Biotechnology Pharmacy 	144.04	172.74	316.78
6	RUSA-KU Industry Academia Partnership (R-KUIAP)	Departments with Industry academia partnership	37	50	87
7	RUSA-KU- Library (R-KUL)	University Central Library	100		100
8	RUSA-KU Upgradation of Laboratories Facilities KU (R-ULF)	University Colleges Departments	187.426	199	386.426
9	RUSA-KU- Fellowships (R-KUF)	1. UGC Unit	323.64		323.64
10	RUSA-KU Conference & Book Grant (R-C&BG)	All the Departments.	86.4		86.4
11	RUSA-KU Research Programs (R-RP)	University Colleges Departments	726.534	198.8062	925.3402
	Total		1882.2756	1617.9662	3500.2418

With the above information, the file is submitted for approval of the modifications to the approved note (Ref.6) of the sanction of Research projects for individual faculty and for the centres under RUSA – Component 10 – Research, Innovation and quality improvement.

IrAsst

Asst Registrar

CO-UGC

Registrar

Vice-Chancellor