

## Osmania University

**Information for national institutional ranking framework (Ministry of Human Resource Development, Govt. of India)**

**Details of sponsored research projects executed in the academic years 2013-14, 2014-15 and 2015-16**

### Mechanical Engineering Department

Sl. No.	Financial year	Name of the faculty (principal investigator)	Name of the funding agency	Title of the project	Sanction order number	Sanction date	Amount received
1.	2013-14	Prof P Ushasri	OU DST	Development and experimental analysis of window AC system with roll bond condenser	A-38/PURSE/COORD/2011	2014	5 Lakhs
2.	2013-14	Prof P Ushasri	UGC-RPS	Computational analysis of grooved casing in a centrifugal compressor	8023/RID/RPS-103/2011-12	2011	10.16 Lakhs
3.	2013-14	Mr. G Narender	OU DST	Structural and Mechanical Properties of Composite materials	OU-DST scheme No. A-47	2012	3.67 Lakhs
4.	2013-14	Mr. G Narender	OU DST	Effect of Nanofluids on the performance of Natural circulation loop of a heat Exchanger	OU-DST scheme No. A-48	2012	5.00 Lakhs
5.	2015-16	Prof A Krishnaiah	UGC	Production of Ultra-fine grained Copper Tools by Equal Channel Angular Extrusion for micro-Machining	42-889/2013(SR)	2015	8.10 Lakhs
6.	2015-16	Prof Sriram Venkatesh	TEQIP-II	An approach to minimise build errors and improve quality of prototypes in SLS additive manufacturing		2015	1.0 Lakh
7.	2015-16	Dr R Rajendra	TEQIP-II	Estimation of geometric dimensional deviation of constructed free form surfaces from machined free form		2015	0.85 Lakh

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8.	2015-16	Dr L Siva Rama Krishna	TEQIP-II	Design and Manufacturing of scaffolds for Biomedical application using additive manufacturing		2015	0.85 Lakh
9.	2015-16	Mr E Madhusudan Raju	TEQIP-II	EEG signal based non invasive brain machine interface to control a two degree freedom RR type of planar robot arm		2015	1.0 Lakh
10.	2015-16	Mrs.T Nagaveni	TEQIP-II	Processing & characterisation of porous Zirconia ceramics by gel casting		2015	1.0 Lakh
11.	2016-17	Dr L Siva Rama Krishna	UGC Minor Project	Assessment OF dimensional accuracy of facial ( zygomatic) bone fractures reduction using additive manufacturing		2016	5.0 Lakhs
12.	2016-17	Mr E Madhusudan Raju	UGC Minor Project	Development of EEG based Human Machine Interface for the control of 2 dof robot with Joint Flexibility	4-4/2015 (mrp/ugc-sero)	2016	4.5 Lakhs
<b>Civil Engineering Department</b>							
13.	2013-14	Prof. M.Kumar	UGC-Minor	Identification of Block spots and Accident analysis Using GIS and GPS technology.	Rs. 05.00 lakh MRP 4803/14 (ACRO UGC) March, 2014	2014	5.00 Lakhs
14.	2013-14	Prof. Ravande Kishore	RDSO, Ministry of Railways, Govt. of India	Temperature distribution in concrete railway bridges	18.50 Lakhs		18.50 Lakhs
15.	2013-14	Prof. V.S.S.Kumar	AICTE	Application of Artificial Intelligence Techniques in Civil Engineering	Rs. 10.00 lakh	2013	Rs. 10.00 lakh
16.	2013-14	Prof. M.Gopal Naik	DST,	Unban Watershed Rainfall-Runoff Modeling using Geospatial Techniques	No. NRDMS/11/181	2012	Rs. 15.15 lakh

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17.	2013-14	Prof. M.Gopal Naik	UGC	Surface Flow Measurement using PIV Techniques	No. F MRP-4802/14 (SERO/UGC)	2014	Rs. 05.00 lakh
18.	2015-16	Prof. V. Bhikshma (Head)	TEQIP-II	Development of high strength recycled aggregate concrete mixes for sustainable construction	/TEQIP/Seed money/R&D /Phase II , 16/11/2015	16.11.2015	1 lakh
19.	2015-16	Dr. M. V. S. Sreedhar	TEQIP-II	Investigations on effectiveness of commercial stabilizers in stabilization of soft clay	/TEQIP/Seed money/R&D /Phase II , 16/11/2015	16.11.2015	1 lakh
20.	2015-16	Mr. D. Rajashekar Reddy	TEQIP-II	Structural Evaluation of pavements and CBR value estimation using dynamic cone penetrometer.	//TEQIP/Seed money/R&D /Phase II , 16/11/2015 1 lakh	16.11.2015	0.80 lakh
21.	2015-16	Dr.K. Shashikanth	TEQIP-II	Extreme Rainfall Projections of Indian summer monsoon under climate change	334/TEQIP/Seed money/R&D /Phase II , 16/11/2015 0.80 lakh	16.11.2015	0.8 lakh
22.	2015-16	Mrs. D. Annapurna	TEQIP-II	Calculation of optimum mixture proportion for geo-polymer concrete	328/TEQIP/Seed money/R&D /Phase II ,	16/11/2015	1 Lakh & 1 Year
23.	2015-16	Mrs. S. V. S. N. D. L. Prasanna	TEQIP-II	Estimation and simulation of Hydraulic jump	329/TEQIP/Seed money/R&D /Phase II ,	do	1 Lakh & 1 Year
24.	2015-16	Mrs. P. Anuradha	TEQIP-II	Analysis if infill frame using FEM	355/TEQIP/Seed money/R&D /Phase II	do	1 Lakh & 1 Year

**ECE Department**

25.	2013	Dr. P.Chandrasekhar	UGC	GNSS Receiver: Base band Algorithms using FPGA	41-609/2012(SR) date 16-07-2012	15 lakhs	
26.	2014	Dr. P.Chandrasekhar	DLRL	Design Development of FPGA based dual threshold WAM technique for Multilateration systems	DLRL/55/001( R ) 2014	10 lakhs	
27.	2010-2013	Dr.P. Naveen Kumar	DST	Investigation of Atmospheric effects on future Ground based Augmentation systems		33 lakhs	
28.	2015-16	Dr. B.Rajendra Naik	TEQIP	Design and Implementation an efficient an efficient image ampression tentative on PPGA	339/TEQIP/seed money/R&D/Phase II/UCE/2015 dated 26.11.2015	80 lakhs	
29.	2015-16	Dr. L. Nirmala Devi	DST	Security and data transmission issues in mobile adhoc networks		50 Lakhs	
30.	2015-16	Dr.L. Nirmala Devi	DST	Energy management in wireless sensor networks		25 lakhs	
31.	2015-2016	Dr. D.Ramakrishna	RCI, DRDO	Analysis Design and Simulation of W-band Antenna for FMCW Applications	RCI/DCMM/CPD/CARS/349 Dated 20.07.2015		
32.	2015-16	Dr.D. Ramakrishna	TEQIP	Compact Microwave Band pass filters using Electromagnetic band gap structures	341/TEQIP-II/seed money R&D/ UCE/ 2015, dated 16.11.2015		
33.	2014-15	Dr. M.Venkateshwar Rao	UGC	Hyperthermia Applications of Nano materials for cancer therapy	4/3/2015	2.60 lakhs	

**EEE Department**

34.	2014-15	Dr. P. Satish Kumar	UGC	Investigation, Implementation and Performance Evaluation of cascaded Multi level Inverters using SVPWM Algorithm	F.NO.42-149/2013(SR)	14/03/2013	8.49 lakhs
35.	2014-15	Dr. P. Satish Kumar	Science and Engineering Research Board , New Delhi (National)	Investigation, Implementation and Performance Evaluation of Neutral point Clamped Multilevel Inverters	F.No.SB/FTP/ETA-157/2012	20/05/2013	20.10 lakhs
36.	2015-16	Dr. M. Manjula	TEQIP-II	Mitigation of harmonics in a non linear load	TEQIP-II	20.10.2016	1 lakh
37.	2015-16	Dr.B.Mangu	TEQIP	Grid Connected PV-Wind- Battery based multi-input transformer coupled bidirectional DC-DC converter for household applications	TEQIP-II	20.10.2016	1 lakh
38.	2015-16	Dr. E. Vidya Sagar	TEQIP	Reliability Improvement of Distribution Systems using Fault Passage Indicators	TEQIP-II	20.10.2016	1 lakh
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