



R. V. COLLEGE OF ENGINEERING – BENGALURU

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

Research Projects – Ongoing

Sl. No	Project Title	Year of Commencement	Project duration (In years)	Amount Sanctioned (In Lakhs)	Funding Agency	Status	Principal Investigator	Co-Investigator
1	Steered Array lens Antenna	Sept 2016	1	20.00	INTEL	Sanctioned	Dr. S. Ravishankar	Mr. Mahesh A , Mr. Shushrutha K S Mrs. Sheela C S
2	Design, development and implementation of an adaptable ground vehicle classification system for battlefield surveillance	July 2016	2	12.95	ARMREB	Sanctioned	Dr.M.Uttara Kumari	Dr.K.S.Geetha, Mrs.Sujatha D Badiger, Mrs.Rohini Hallikar
3	Discrete Multitone cable communication modem for SNR data acquisition & Telemetry applications	May 2013	3	52.4	NRB	In Progress	Dr.S.Ravishankar	K R Usha Rani
4	Development of shape lens based metamaterial insulated compact communications array antenna for defence application	March 2013	3	50.0	NRB	In Progress	Dr.S.Ravishankar	Dr.B.S.Satyanarayana, Mahesh A, Shushrutha K.S, S.Narayan
3	Performance simulations using discrete multitone algorithms for acoustic wireless underwater communications and for wired communication in underwater vehicles.	March 2012	3	48.8	ERIPR-LRDE	In Progress	Dr.S.Ravishankar	Dr.M Bharathi, K R Usha Rani, K.Saraswathi, K.V.Padmaja (IT)



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Research Projects – Completed

Sl. No	Project Title	Year of Commencement	Project duration (In years)	Amount Sanctioned (In Lakhs)	Funding Agency	Status	Principal Investigator	Co-Investigator
1	Development of an efficient underwater video compression for underwater acoustic channel	2012/27.02.12	2	11.75	NRB	Completed	Dr.B.V.Uma	Dr.K.S.Geetha, Dr.Prasanna Kumar, Dr.Krishna
2	Design of Predictive Controller for Ship navigation	2011/26-5-11	2	20.5	NRB	Completed	Dr.S.A.Hariprasad	Satish
3	Development of algorithms for improved accuracy in DGPS measurements using DSP tools	2009/1-5-09	2	5.88	ARM REB	Completed	Dr.K.A.Sumitra Devi	Dr.S.A.Hariprasad
4	Design and development of compact universal controller for Rudder actuation system of autonomous vehicle using DSP & FPGA tools	2008/16-10-08	3	35	NRB	Completed	Dr.S.A.Hariprasad	Dr.Krishna
5	Design and development and integration of co-processors with DSP TI6X family using FPGA for naval application	2008/6-10-08	2	36.3	NRB	Completed	Dr.G.Padmavathi (AVU)	Dr.S.A.Hariprasad

Sl. No	Project Title	Year of Commencement	Project duration (In years)	Amount Sanctioned (In Lakhs)	Funding Agency	Status	Principal Investigator	Co-Investigator
6	A Study of defining measuring parameters of ship model by analyzing wakes using image processing techniques	2007/19-3-07	2	18.45	NRB	Completed	Dr.Subashini (AVU)	Prof.B.S.Kariyappa
7	A study and analysis of active array antennas embedded in hemispherical and hemispheroidal shaped dielectric lenses for airboarne mobile communication	2007/21-3-07	2	13.45	IPR CABS	Completed	Dr.S.Ravishankar	Dr.T.S.Rukmini, Dr.H.V.Kumaraswamy
8	Design and development of dielectric lenses based active smart array antenna for surface communication of underwater vehicles	2006/28-9-06	3	39.85	NRB	Completed	Dr.S.Ravishankar	Dr.T.S.Rukmini, Dr.Krishna
9	Design and development of controller working on 1553 digital bus ion various modes of military applications	2006	2	13.74	IPR DRDO	Completed	Dr.R. Nagaraj	-
10	ASIC control for AC servomotor drive for military applications	2005/14-10-05	2	9.98	ARB	Completed	Dr.R. Nagaraj	-
11	A cost effective smart antenna for mobile broadband application	2005/4/8/05	3	6.47	ISRO	Completed	Dr.S.Ravishankar	Dr.S.Jagannathan
12	Implementation of self turning controller	2002/22-10-05	1.5	13.04	CPRI	Completed	Dr.J.K.Mendiratta	-



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Research Consultancy

Sl. No.	Consultancy Title	Consultancy Type	Client	Date From and To	Name of the Faculty
1	Development of auto vision system for traverse winder	Development	TE connectivity	January 2015	Dr.B.S.Satyanarayana Dr.K.S.Geetha Dr.B.V.Uma
2	Efficient low cost EGC monitoring system	Development	ESSEN Systems	January 2015	Dr.B.V.Uma
3	Antenna training	Training	BSF	January 2015	Shushrutha K.S
4	A study on EM scattering and beam steering compensation for shaped dielectric lens array antenna in millimeter waveband	Development	INTEL	September 2016 (4 Years)	Dr. Ravishankar S Mrs. Sheela C S