



**DR. SRN REDDY**

**Professor, Dean Examination Affairs, IGDTUW**

**Department of Computer Science**

**Indira Gandhi Delhi Technical University for Women**



**INDIRA GANDHI INSTITUTE OF TECHNOLOGY**

(A Constituent college of GGS Indraprastha University)

Kashmere Gate, Delhi

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## Brief Profile

**Dr. S. Ramanarayana Reddy** is working as a Professor in Computer Science & Engg dept of Indira Gandhi Delhi Technica University for Women (IGDTUW), Delhi. He is currently acting as Dean examination affairs, IGDTUW. He has awarded PhD in the area of Embedded Systems Design in 2009 and M. Tech degree in 2002 from Jawaharlal Nehru University, New Delhi. His research interest includes Engineering Education, Embedded Systems Design, Mobile Architecture and Programming and IoT. He has published more than 80 research papers in various international journals, conferences and published couple of books. He filed four Indian patents along with his research team & collaborators and transferred the patented technology “**My Smart Phone Kit**” to the industry for commercialization.



He is a PI in six externally funded sponsored projects by Microsoft, Intel and Nokia and Co PI for two MHRD sponsored projects in collaboration with IIT Delhi and IIIT Delhi and completed two projects successfully. He established the state of art Embedded & Mobile Design and IoT Innovation lab in collaboration with Intel, Microsoft, Nokia, Atmel, ARM etc. to provide the quality of education and research with a practical approach. He has received several equipments grants from Intel, Nokia, Microsoft, ARM, IT to name a few and received international travel fellowship from Intel twice. He has conducted more than 40 workshops/ training programs on ‘**Mobile Architecture and Programming**’, **IoT, Design and Development of Smart Devices** for Industry, faculty members and students. He has conducted few tutorials in the national and international conferences and delivered several expert lectures/ keynote sessions. He has more than 20 years experience that includes research, industry and teaching. He is a member of CSI, VLSI Society of India and AMIE and guided several M.Tech students and PhD students. He received the fellowship from Intel to visit and present the work in USA and Taiwan. He also received an award from Intel for his contribution and promoting technology in higher education. He was a one of the founder director of IGDTUW Anveshan Foundation, Section 8 Company and acting director of ETI Labs Pvt, Start-up company started at IGDTUW. He has published several course development manuals along with the research students and are available @ [www.mobileeducationkit.net](http://www.mobileeducationkit.net)

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[www.mobileeducationkit.net](http://www.mobileeducationkit.net)

[www.dic-igdtuw.com](http://www.dic-igdtuw.com)

## Basic Details

**NAME** : **Dr. S. Ramanarayana Reddy**

**DATE OF BIRTH** : 06-01-74

**FATHER'S NAME** : S. YERRAMA REDDY

**SEX** : MALE

**MARRIED** : YES

**NATIONALITY** : INDIAN

**PLACE OF BIRTH** : CHETTI VARI PALLI VILLAGE

**PERMANENT ADDRESS** : CHETTI VARI PALLI VILLAGE,  
G. KOTHA PALLI POST, CHITTOOR  
DIST, AP. PIN- 517213. Ph-08584 244593

**PRESENT EMPLOYER** : Professor, CSE Dept. IGDTUW,  
Kashmere Gate, DELHI- 110006  
Mobile: 0981010174  
[rammallik@yahoo.com](mailto:rammallik@yahoo.com), [srnreddy@igdtuw.ac.in](mailto:srnreddy@igdtuw.ac.in)

**LANGUAGES** : English, Hindi, Tamil and Telugu.

**AREAS OF SPECIALIZATION** : **Embedded System Design.**

**Internet of Things (IoT)**

**Mobile Architecture and Programming.**

**Product Design**

**Industry Automation**

**FAD/API SCORE[ REQUIRED: 9.5]**

S. No	Year	FAD score achieved by candidate
1	2011-12	56.31
2	2012-13	43.24
3	2013-14	46.64
4	2014-15	86.01
5	2015-16	
6	2016-17	
7	2017-18	
8	2018-19	

**Case for consideration: STAGE V (Pay BandRs. 37,400-67,000 with AGP Rs. 10,000)**

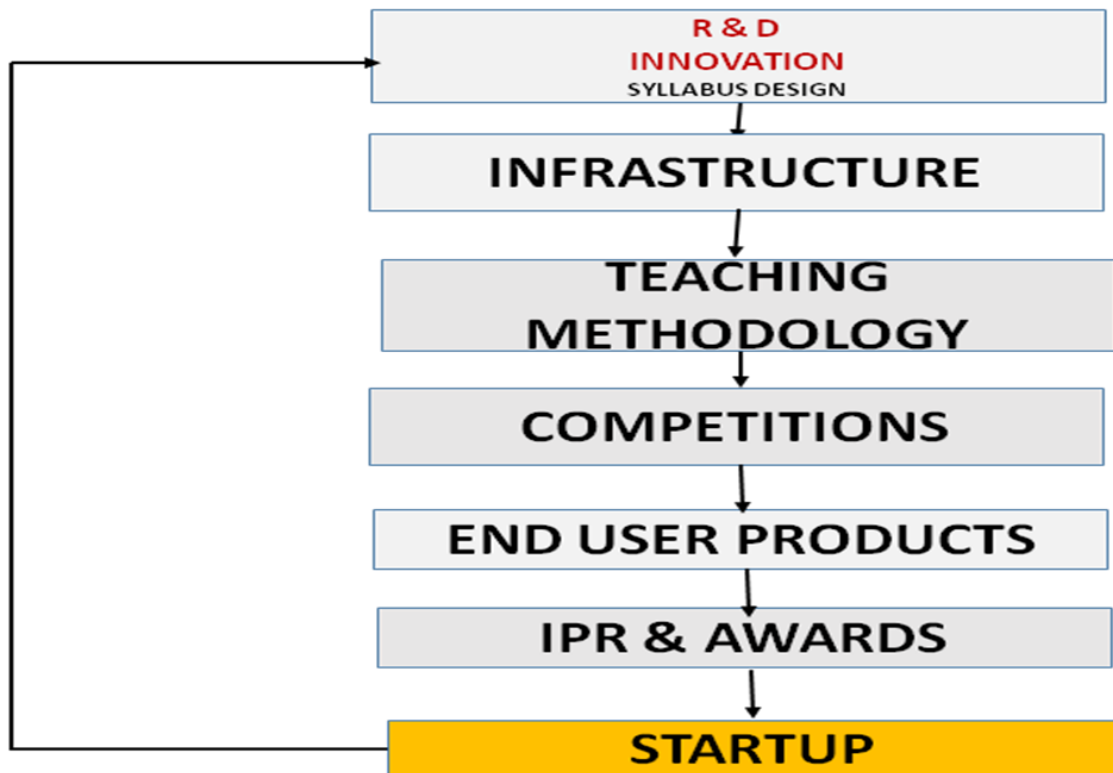
**FROM STAGE IV (AGP: 9,000) TO STAGE V (AGP: 10,000)**

**\*\*Eligibility Conditions:**

- a) **Service Requirements: Associate Professor possessing a PhD Degree in the relevant discipline and completed three years of service in Stage IV, shall be eligible to be appointed as Professor and be placed in the next highest grade (Stage V).**
- b) **Minimum API's/ FAD's : 110/9.**
- c) **At least five publications since the period teacher is place in Stage III.**

Name of the Faculty	Date of Appointment [As a lecturer]	Date of eligibility for CAS	Total Service in the Stage [Stage-IV & Up to Sept 16 ]	Highest qualification
Dr. S. Ramanarayana Reddy	17-07-2002	24-02-2015	<b>4 years and 7 Months</b>	PhD

## New Methodology adopted in Teaching



- **Teaching Embedded Systems Design Practically:-** Embedded Systems Design theory and practical's were taught in an integrated manner by conducting practical's and project by using real components, interfacing the peripherals and sensors step by step by the students of group 3 to 4. Finally, the students were build the take home (real) project and they deploy real environment. The aim of the innovative methodology is to make the students understand and bridges the gap between theory and practice along with the real hardware. We have introduced this methodology in weekend M.Tech and currently for B.Tech embedded system students.
- **Use of Mobile Devices In Teaching:-**Mobile device is a powerful versatile battery operated handled full pledged computer. It has been demonstrated and shown to the students to use the mobile devices for performing practical's in DBMS, DS, CG, OOPS, OS, Embedded Systems, WAP, LINUX, C, C++ , DIP etc practically with he students mobile devices. This helps them in two ways one to practice the concepts in the real environment and bridge the gap between Academics and Industry with the introduction of real industry standard tools and technologies in the areas of mobile programming.

## Supervisions (Ph.D,M.tech,B.Tech)

### Ph.D Student Supervision

**Ph.D Students supervision:-** Three is submitted and 6 students are pursuing

S No.	Name of the Student and the university	Date of Registration	Supervisor/Co-Supervisor	Current Status
1	Ms. Rashmi Priyadarshini from Sharda University	June 2011	Co-Supervisor	Submitted
2	Mr Pawav Kumar	Aug 2013	Supervisor	Pursuing
3	Mr Sanjai Kumar	Aug 2013	”	”
4	Ms Jasleen	Aug 2014	”	”
5	Ms. Sunita	Aug 2014	”	”
5	Ms Zeenath	Aug 2015	”	Submitted
6	Ms Sonal	Aug 2015	”	Submitted
7	Ms. Manasi Mishra	Aug 2017	”	Pursuing
8	Ms Pushpanjali Kumari	Aug 2017	”	Pursuing

### Dissertation Guidance (PG)

Guided 35+ Students leading to M.Tech.

### Major Project Guidance (UG) :

Guided 100+ Students leading to B.Tech.

## Grant Received (Research Project + Equipments Grant)

### University Funded Project

S N	Projects	Sponsoring Agency	Amount	Durat ion	Co Principal Investigator	Name of the Lead Institute	Principal Investigator
1	Web Based Mobile Architecture and Programming (Mek-1)	Nokia University Relation, Finland	13 lakhs	1 year (2012-2013)	Prof. M.Balakrishnan (IIT Delhi ) and Dr.Amarjeet Singh (IITD)	IGDTUW	Dr. SRN Reddy (IGDTUW)
2	Mobile Education Kit-2	Nokia University Relation, Finland	Rs. 22,15,935	3years (2014-2017)	.....	IGDTUW	Dr. SRN Reddy (IGDTUW)
3	Human Sense: Towards context aware sensing, inference and actuation	ITRA (MHRD)	240 lakhs (27.49 lakhs for IGDTUW)	3years (2013-2016)	Dr.SRN Reddy Dr. Debopam Acharya (SNU)	IIT, Delhi	Dr.Amarjeet Singh (IITD)
4	Development of Embedded Systems Course Curriculum	Intel, India	1.5 lakhs	2years (2013-2015)	Ms Kavita	IGDTUW	Dr. SRN Reddy (IGDTUW)
5	Design& Innovation Lab	MHRD	10 Cr (1.6+lakhs for IGDTUW)	3years (2014-2018)	Dr.SRN Reddy (IGDTUW)	IIT, Delhi	Prof. M.Balakrishnan Prof. P.V.M. Rao (IIT Delhi )
6	Intel RealSense	Intel	4 lakhs	2years	-	IGDTUW	Dr.SRN Reddy
7	Intel IoT	Intel	2 lakhs	2years	-	IGDTUW	Dr.SRN Reddy
8	Mobile Education Kit-3	Microsoft	23.5 lakhs	2years	Ms. Kavita	IGDTUW	Dr.SRN Reddy

**Note\***  Project was completed successfully  
 Project is on going



## Equipment Grants Received

S.No	Devices/Kits	No of Kits	Price/Kit	Description	Approx Value
1	Inforce SYS940 (Atom), DE2i-10 (Atom)	15 +2	25000/-	INTEL University Program	425000/-
2	Galileo Gen-2 , Edison	30 +4	6000/-		204000/-
3	Real Sense Camera	20	6000/-		120000/-
4	MBED board LPC1114	20	10,030/-	ARM University Program	2,00,600 /-
5	Freedom Boards	10	1000/-		10000/-
6	AVR-Xmega-A1 Xplained Pro	15	2000/-	ATMEL University Program	30000/-
6	AVR Dragon	15	3200/-		48000/-
7	AVR32 EVK-1100	15	1100/-		16500/-
8	PANDA Board REV-EA3	01	18206/-	PANDA Board	18206/-
9	Raspberry Pi ver B, Raspberry Pi2	10+5 5	2900/-	Microsoft Mobile University Program	188500/-
10	AT89S52/P89V51 RD2	50	400/-	8051 Architecture Microcontroller	----- -
11	Asha-305/311, Lumia 800/820, N-9,N-900, Nokia-X	More Than 100	-----	Microsoft University Program	25,00,000/-

## Travel Fellowships (International & National)

### International Travel Fellowships from Industry

- i. Dr. S.RN Reddy attended Intel Embedded Research & Education Summit 2015, Chandler Blvd. Chandler, AZ, USA on 11th-13th March 2015 and presented a poster “**IGDTUW – Intel Academic Collaboration & Research-Results**”.
- ii. Dr. S.RN Reddy attended Intel Asia Innovation Summit, Taiwan and presented a poster, “**An Intergrated Methodology for the design and development of the device for IOT applications by using Intel Galileo/Atom Platforms**”.
- iii. Zeenat Shareef, Nicy Kaur Taneja would attend and compete in the Asia Pacific Economic Cooperation Network Summit and Global Challenge, Tapei, Taiwan on 19<sup>th</sup>-20<sup>th</sup> October 2015.
- iv. Dr. S.RN Reddy was star speaker on “**IGDTUW- Intel Collaborations towards Youth Education, Innovation, and Entrepreneurship Intel Asia Innovation Summit 2016**” held at Taipei, Taiwan.

### National Travel Fellowship

- i. Travel grant for “**National Conference on product design (NCPD)**” at MSRIT, Bengaluru during July, 2016 from Microsoft University Relations.
- ii. Travel grant for two days hands on workshop “**Build My\_SmartPhone**” for faculty at MSRIT, Bengaluru during Jan 2016 from Microsoft University Relations.
- iii. Travel grant for One week hands on workshop on “**Build My Smart phone**” at NITTTR, Chandigarh during May 2015 from Microsoft University Relations.
- iv. Travel grant for One week hands on workshop on “**Building Your Own Smart phone**” at NITTTR, Chandigarh during May 2015 from Microsoft University Relations.
- v. Travel grant for “**National Conference on product design (NCPD)**” at MSRIT, Bengaluru during July, 2016 from Intel.
- vi. Travel grant for “**National Conference on product design (NCPD)**” at MSRIT, Bengaluru during July, 2016 from Design and Innovation (MHRD).

## Academic Qualification & Experience

### Academics Qualifications

Exam. Passed	Board/ University	Year of Passing	Class/ Division	% of Marks	Subjects
SSC	Board of Secondary Education (AP)	1988-89	1 <sup>st</sup> Class	64%	Math's, Science, and Social Science
Diploma in Electronic & Comm. Egg	State board of Technical Education & Training (AP)	Dec. 1993	1 <sup>st</sup> with Distinction	81.55%	Electronic, Communication and Computer related Subjects
BE in Computer Engineering (AMIE)	The Institution of Engineers (India)	Summer 1999	Higher Second Class	57.4%	Computer Engineering
M.Tech (CSE)	Jawaharlal Nehru University(New Delhi)	Dec-2001	1 <sup>st</sup> Class with Distinction	92% (8.25)	Computer Science and Engineering
PhD	Jawaharlal Nehru University(New Delhi)	2009	Title: "Integrated Approach for Efficient Embedded Systems Design".		

### Experience

S.No	Name of the Institution/ Organization	Post Held	Pay Scale	Period			Nature of Work	Last Basic Pay	Reasons for Leaving
				from	to	No of Years			
1	IGDTUW	Associate Professor	PB4 with grade pay 9000/-	24-02-2012	Till date	4	Teaching and Research		Continuing
2	IGIT, IP University, Delhi	Asst. Professor	15600-39100	July, 2002	24-02-2012	10 app	Teaching and Research	30820-00 with GP 7000	Continuing
3	MBit, Delhi	Faculty	12000-00	Jan, 2002	June, 2002	0.5	Teaching	7000-00	To be a part of University System
4	Excellent Coaching Center, Chennai	„	10000-00 (Consolidated)	Jan, 1999	July, 2000	1.6	„	6000-00	For Pursuing Higher Education
5	Micro Logic Systems, Chennai	R& D Engg.	8000-00 (Consolidated)	August, 1997	July, 1998	1.5	Research and Design	5000-00	„

## Academic and Administrative Responsibility

### Academic and Administrative Responsibilities

- ❖ HoD(Jan 2014 onwards )
- ❖ Proctor and member in several disciplinary committees
- ❖ Admission Officer for three batches of M.Tech
- ❖ M.Tech Coordinator
- ❖ Lab In charge of ESD and MAP
- ❖ Member in various bodies like Finance Committee , BoM , DRC/SRC of the university and also in some other universities
- ❖ Conducted M.Tech Counseling and Orientation
- ❖ Other general responsibilities like member and chairmen in various purchase committees
- ❖ Organized **Orientation Programme 2016** for all branches.
- ❖ Organized **Research Showcase 2016** held at CSE Department, IGDTUW
- ❖ Organized **Hardware Hackathon** during the Techfest of IGDTUW in year 2016,2017,2018 on the topic “Smart Campus Monitoring System” & “Build your own smart device”
- ❖ Organized **DIC Project Research Showcase 2018** held at CSE Department, IGDTUW
- ❖ Organized **Summer Training Programme (2010 -2019)** held at CSE Department, IGDTUW
- ❖ Organized Short term Course on **“Mobile Computing and Application Development”11-15 March, 2019** at IGDTUW,Delhi organized by NITTTR Chandigarh & IGDTUW.

### Other Responsibilities

- ❖ Worked as External Examiner, paper setter/moderator at University level (GGSIP University, Amity University, IETE, and DOEACC).
- ❖ Delivered/Attended several lectures at various levels of Academic/Industry platform.
- ❖ Worked as Coordinator, judge of technical events in different technical festivals.
- ❖ Worked as an Incharge of Examination and Academic cell of IGIT in 2010.
- ❖ Worked as an Addl. Coordinator for M.Tech weekend ECE program of IGIT, USIT (collaborative programme) in 2010-2015.
- ❖ Working as Dean of Examination in IGDTUW since 2015.

## List of Subjects Taught

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S. No	Name of the Subject	No. of Student	No of Times	B.Tech/ M.Tech/ MBA
1	Data Structures through C	60+	8	B.Tech/AMIE
2	Computer Organization	60+	4	AMIE + IITD
3	System Programming	45	„	”
4	Programming Languages and Design	45	„	„
5	Computer Peripherals and Interfacing	45	„	„
6	Data and Communication Networks	60	3	DOEACC
7	Data and Computer Networks	60	2	”
8	Compiler Design	60+	6	B.Tech
9	Software Testing	60+	1	„
10	Fuzzy Logic and Soft Computing	60+	1	„
11	Linux and X-windows Programming	60+	4	„
12	Microprocessors Architecture	61	2	„
13	8051 Microcontroller Architecture	60	2	„
14	Impact of Science and Technology	60+	1	„
15	Embedded Systems	60+	2	
16	Embedded Systems Design	60+	2	”
17	Embedded Systems Design	55+	6	M.Tech (Week End IT and ECE)
18	Embedded Systems Design	25	2	M.Tech (Week End) DTU
19	ARM Processor Architecture	20	1	M.Tech, USIT
20	Informatics for Disaster Management	50+	3	MBA (Week End)
21	Mobile Architecture and programming	120+ for UG and 40 for PG	4	UG ,PG and PhD
22	Design and Development of mobile and handheld devices	30	3	UG and PhD
23	SoC architecture for mobile and handheld devices	30	3	UG and PhD
24	Introduction to Computers and C programming	60 +	1	UG
25	Mobile Computing	30	1	PG

## Major Contributions

### Major Contributions

1. **Curriculum Design :-** New courses like Mobile architecture and programming, Design and Development of Mobile and Handheld Devices, SoC architecture for Mobile and Handheld Devices
2. **New M. Tech Program:-** Introduced Mobile and Pervasive Computing in collaboration with Industry
3. **Creation of New Infrastructure:-** Several equipment grants received app 30 lacs
4. **Creation of IPR:-** Filed Four Indian Patents
5. **National Conference on Product Design :-** First in the University
6. **Research Showcase :-** First in the University
7. **Technology Transferred :-** First in the University
8. **Externally Funded Projects 8 :-** Which are sponsored by industry and Govt. worth approx 3 Cr – Highest in the University and completed two
9. **Received 3 International Fellowships from Intel**
10. **Workshops and Expert Lectures:-** Conducted Several Workshops and generated revenue to the university and delivered expert lectures national and international.
11. **Developed New Course Manuals and online tutorials:-** for more detail visit  
<http://mobileeducationkit.net/labmanuals/>  
<http://www.dic-igdtuw.com/courses/>  
<http://www.dic-igdtuw.com/lab-manuals/>
12. Represented University in various international/national events along with
13. Received the award for contributions in technical education from the Intel and also best paper (student) award and best product design award [NCPD-2016]

## Infrastructure Created for New Product Design Labs

### Embedded Systems Design Lab

S.No	Particulars	Quantity	Approx.cost in Lac
<b>Purchased for approx.: 1.9 lac</b>			
1	8051 Evaluation boards with various interfacing peripherals	18	<b>1.6</b>
2	Keil IDE for Embedded Systems Development etc.	20	<b>1.3</b>
<b>Created by Sponsorship for approx: 68.1 lac</b>			
3	FPGA boards	3	<b>2</b>
4	VxWorks RTOS for ARM and X86 platform from Vind River Systems	20	<b>40</b>
5	General Purpose evaluation boards based on WindowsCE from Microsoft	333 3	<b>5</b>
6	Atmel Microcontroller and Evaluation kits/ debuggers from Atmel	45	<b>2</b>
7	Mobile Devices for various experiments based on Symbian, Maemo, MeeGo and Windows Mobile 7 from Nokia	60 [e-63: 20, N 900:20, N9:5, N800:5, others:10]	<b>13</b>
8	Mobile Application Development SDK for various platforms like Symbian, Maemo, MeeGo, Windows Phone 7 etc.	20	<b>1</b>
9	OMAP 4 Panda Board form TI	1	<b>0.1</b>
10	Windows and MeeGo Devices	20	<b>5</b>

### Design & Innovation Lab

S.No	Particulars	Quantity	Approx.cost in Lac
<b>Created by Sponsorship DIC Project for approx: 11 lac</b>			
1	3D Printer	1	<b>4.8</b>
2	3D Printing Accessories	30	<b>.30</b>
4	Laser Cut Machine	1	<b>4.50</b>
5	Laser Cut Accessories	20	<b>.80</b>
6	PCB Soldering Stations & Other Accessories	20	<b>.60</b>
<b>Note:- For more Details about the DIC Lab Kindly visit</b> <a href="http://www.dic-igdtuw.com/innovators-lab/" style="color: blue; text-decoration: underline;">http://www.dic-igdtuw.com/innovators-lab/</a>			

## Programme organized (Workshop, Conference and Hackathon)

### Workshops organized and or conducted

- i. One day hands-on workshop on **Intel Galileo** in collaboration with Intel for B.Tech and M.Tech students held on 01 March 2015 at IGDTUW, Delhi.
- ii. Design contest on **Build My Smart Device** held during tech fest of IGDTUW held on 27-28 March 2015 at IGDTUW, Delhi.
- iii. Design contest on **Application Development Challenge** held during tech fest of IGDTUW held on 27-28 March 2015 at IGDTUW, Delhi.
- iv. Two days hands-on workshop on **Build My\_ Smart Phone** for faculty at MSRIT, Bengaluru held during 07 & 08 Jan 2016 in collaboration with IGDTUW, Delhi & Mobility Research Forums.
- v. One day hands-on workshop on **Raspberry Pi** and its interfaces for B.Tech students, 13 Feb 2016 at IGDTUW, Delhi.
- vi. Six weeks **Summer Training Programme – I** on Mobile Architecture & Programming in 2010.
- vii. Six weeks **Summer Training Programme – II** on Mobile Architecture & Programming in 2010.
- viii. Six weeks **Summer Training Programme – III** on Mobile Architecture & Programming in 2011.
- ix. Six weeks **Summer Training Programme – IV** on Mobile Architecture & Programming in 2012.
- x. Six weeks **Summer Training Programme – V** on Mobile Architecture & Programming in 2013.
- xi. Six weeks **Summer Training Programme – VI** on Mobile Architecture & Programming in 2014.
- xii. Six weeks **Summer Training Programme – VII** on Mobile Architecture & Programming in 2015.
- xiii. Six weeks **Summer Training Programme – VIII** on Build Your Own Smart Device in 2016.
- xiv. One Week hands-on workshop on **Builds My\_ Smart Phone** for faculty at NITTR, Chandigarh held during 04 to 08 May 2015 in collaboration with IGDTUW, Delhi & NITTR, and Chandigarh



- xv. One Week hands–on workshop on **Building Your Own SmartPhone** for faculty at NITTR, Chandigarh held during 16 to 20 May 2016 in collaboration with IGDTUW, Delhi & NITTTR, Chandigarh with support from Microsoft, Intel & DIC-MHRD.
- xvi. One day workshop on “**Intel RealSense**” 18<sup>th</sup> July 2016 for BTech and M.Tech students of IGDTUW.
- xvii. One day workshop on **Embedded System** using Intel Galileo Gen 2 on 2<sup>nd</sup> April 2016 for M.Tech students of IGDTUW.
- xviii. Two days workshop on Build your own smart device using Intel Galileo, Raspberry Pi at MSRIT, Bengaluru during 1<sup>st</sup>-2<sup>nd</sup> June 2016.
- xix. Six weeks **Summer Training Programme – IX** on Build Your Own Smart Device in 2017.
- xx. 9th Summer Training Program on “**Build your own Smart Devices based on Open Source Platforms**”, 11th June-21st July 2018.
- xxi. **Project Research Showcase , Review & Action Plan Event** of Research Scholars and Project Staff conducted on 23-Sep-2018.
- xxii. Hands on Work on Raspberry pi Board at IGDTUW,Delhi for CSE Students during 22<sup>nd</sup> feb to 25<sup>th</sup> feb-2019.
- xxiii. Short Term Course on “**Mobile Computing and Application Development**”**11-15 March, 2019** at IGDTUW,Delhi organized by NITTTR Chandigarh & IGDTUW.
- xxiv. **STP-10 Project Based Summer Training Program** on “Integrated approach using IoT, Cloud Computing , Mobile Application Development & AI” **From 10-06-19 to 20-07-19**

### **Hardware Hackathons**

- i. Organized **Hardware Hackathon** during the Techfest of IGDTUW in April 2016 on the topic “Smart Campus Monitoring System”.
- ii. Organized **Hardware Hackathon** during the Techfest of IGDTUW in October 2016 on the topic “Smart Campus Monitoring System”.
- iii. Organized **Hardware Hackathon** during the Techfest of IGDTUW in October 2017 on the topic “Design and developed Smart Devices”.

**Note- for more details about organized events kindly visit below links**

<http://www.mobileeducationkit.net/Events.php>

<http://www.dic-igdtuw.com/recent-events/>

## Lecturers Delivered

### Invited Talks / Tutorials /Special Lectures Delivered from 2009

1. Special lecturer on “Role of RTOS for Mobile Communication”, in the AICTE sponsored FDP on "Wireless Communications and Mobile Computing" held at University School of Information Technology during 22 Dec, 2008 - 2 Jan, 2009.
2. Two day Training program on “Mobile Architecture and programming by using Windoce CE and Symbian”, for M.Tech Students, DAVV, Indore, on 24-25, 04- 2009.
3. Special Lecturer on “Mobile Architecture and Programming”, at NIT, Hamirpoor, on 25-06-09.
4. Special Lecturer on “Embedded Systems and Security”, at Police Training Program, USIT, Delhi, on 25-07-2009.
5. Special Lecturer on “Introduction to Embedded Systems” at Shaheed Rajguru College of Applied Sciences for Women, (University of Delhi), on 09-09-2009.
6. Invited Lecture on “**Role of RTOS for Embedded Systems -A case Study**”, in a Seminar on “Current Developments in Embedded Systems” organized by Guru Tegh Bahadur Institute of Technology, New Delhi, Saturday 16th January 2010.
7. Invited Lecture on “**Symbian OS for Wireless Applications**” in a CEP COURSE on Real Time Operating System conducted by LASTEC, DRDO, on 18/2/10 in Delhi.
8. **Full day special lecturer and lab in a workshop on “Mobile Architecture and Programming for ARM processors”** conducted by the IGIT, IP University from 12th - 13th March, 2010.
9. **Delivered** one day tutorial on **Mobile Systems Programming** in a National Conference on “Emerging Electronic and Computing Systems” NCEECS, 2010, on 29th March, 2010 organized by Devi Ahilya University, Indore, Council of Scientific and Industrial Research, New Delhi and University Grants Commission, New Delhi in Indore.
10. Invited Lecture on “Mobile Programming” in UGC sponsored FDP program at Almora, Utharakhand, in July 2010.
11. Invited Lecture on “Mobile Architecture and its programming environments for the projects” at CSE Dept, IITD, Delhi on 13<sup>th</sup> August, 2010.
12. Presentation on “Technology Teaching Computer Architecture Using a Mobile Device”, Workshop on Computer Architecture Education In conjunction with FPT 2011, December 15th, 2011 IIT Delhi, India.

13. Invited lectures on “Mobile Apps for IT and Recent Trends” on 28 and 29<sup>th</sup> of Nov.2011 in the UGC Academic staff college Refresher course on IT applications, being held at SSJ Campus Almora of Kumaun University during 23 Nov.2011 - 13 Dec.2011.
14. Invited lectures on “Mobile Architecture and Programming a Practical Approach”, on 26-12-2011, at CDAC, Noida, UP.
15. Invited lectures on “Mobile Architecture and Programming a Practical Approach by using smart phone kit”, LBR college ,Vijiyawada, July 2015.
16. Invited lectures on “Mobile Architecture and Programming a Practical Approach by using smart phone kit”, SVU , Tirupathi, 4<sup>th</sup> July 2016
17. Invited lectures on “Mobile Architecture and Programming a Practical Approach by using smart phone kit”, Visheveshwaraish college of Eng. Madanapalli, 3<sup>rd</sup> July 2016
18. Invited lectures on “Mobile Architecture and Programming a Practical Approach by using smart phone kit and IoT”, Vishstnu college of Eng. Bhimavaram, 9<sup>th</sup> July 2016
19. Invited lectures on “IoT and smart phone kit”, JNTU college of Eng. Guntore ,10<sup>th</sup> July 2016
20. Invited lectures on “IoT and smart phone kit, FDP organised by JSS, Noida, 2016.
21. Prof SRN Reddy received greatest appreciation for support of Intel India 20th year journey in developing the technology by Intel India -2018.
22. **Short Term Course on “Mobile Computing and Application Development”11-15 March, 2019 at IGDTUW,Delhi organized by NITTTR Chandigarh & IGDTUW.**
23. Participated in three--day conference on Assistive Technology –Empower 2018 organized by IIT Delhi.
24. Participated in three--day conference on Assistive Technology –Empower 2019 organized by IIT Delhi.

### **IGDTUW at different Forums**

1. Dr. S.R.N Reddy, Zeenat Shareef, and Project Staff: Published a poster on “**IGDTUW-Intel Academic Collaboration & Research –Results**” at Intel Embedded Research & Education Summit 2015, Chandler Blvd. Chandler, AZ, USA, and 11<sup>th</sup> -13<sup>th</sup> March 2015.
2. Dr. S.R.N Reddy, Zeenat Shareef, “**IGDTUW-INTEL COLLABORATIONS: Collaboration with Intel for IoT, Intel Real Sense and Embedded System Curriculum Program**” at Intel Academic Forum 2015 held on 8<sup>th</sup>-9<sup>th</sup> October 2016 in New Delhi.
3. Dr. SRN Reddy presented the project Home Automation at **NASSCOM 2016** at Banagalore in October 2016.

## Course Attended (Seminar, Conference Workshops etc)

### Courses Attended

Name of the Seminar / Conference / Refresher courses etc	Name of the organizer	Duration	
		From	To
16 <sup>th</sup> Int.conf on VLSI Design and 2 <sup>nd</sup> Int. conf on Embedded Systems Design	VLSI society of India, MIT, IEEE Electronic devices and circuits, ACM	04 <sup>th</sup> Jan2003	08 <sup>th</sup> Jan 2003
17 <sup>th</sup> Int.conf on VLSI Design and 3 <sup>rd</sup> Int. conf on Embedded Systems Design	Same as Above	05 <sup>th</sup> Jan2004	05 <sup>th</sup> Jan2004
VLSI Design and Test Workshop(7 <sup>th</sup> VDAT)	VLSI society of India and IEEE EDC	28 <sup>th</sup> Aug 2003	30 <sup>th</sup> Aug 2003
Faculty development work shop on “Improving s/w process through SEI-CMM”	BVP Institute of Engineering	18 <sup>th</sup> Nov 2002	19 <sup>th</sup> Nov 2002
Workshop on “ Embedded Systems and Applications”	ECE Dept of IITD, FITT and MIT	3 <sup>rd</sup> July 2003	5 <sup>th</sup> July 2003
Workshop on “ System level design and Modeling”	CSE Dept of IITD and AICTE	16 <sup>th</sup> Dec 2003	24 <sup>th</sup> Dec 2003
Seminar on “Motorola Micro controllers, Programming and Applications”	Motorola India, (Noida Center)	One day	One day
Seminar On Embedded S/W	MetroWerks, Motorola Company	26 <sup>th</sup> May 03	..
Indian Education & Research Conference	Sun Micro Systems	3 <sup>rd</sup> April 2003	..
Linux Asia -2004 , an international Conf, Expo, Workshops	EFY, and Many Other MNC’s	11 <sup>th</sup> Feb 2004	13 <sup>th</sup> Feb 2004
VLSI Design and Test Workshop(7 <sup>th</sup> VDAT)	VLSI society of India and IEEE Banglore chapter	28 <sup>th</sup> Aug 2004	30 <sup>th</sup> Aug 2004
Int. Conference on Information Technology	OIT, UOH, IIIT, Hyd(IEEE, ACM)	18 <sup>th</sup> Dec 2004	23 <sup>th</sup> Dec 2004
TCP/ IP Based Computer Networks	NITTTR (Chandigarh)	17 <sup>th</sup> Jan 05	21 <sup>st</sup> Jan 05
Embedded Systems using WindowsCE	IGIT and Microsoft (IGIT Delhi)	7 <sup>th</sup> Jan 2006	10 <sup>th</sup> jan 2006
MEDE (Mobile Embedded Device Conference)	Microsoft (Banglore)	4 April	6 <sup>th</sup> April 2006
Embedded systems Workshop 2005	Xilinx and NSIT (Delhi)	26 <sup>th</sup> July 2006	29 <sup>th</sup> July 2006
Model-Based Design of Embedded Control Systems Using MATLAB & SIMULINK	Seminar on Dated On Wednesday, ,NEW DELHI	August 30, 2006	One Day
Real Time Embedded Operating System	VxWorks in New Delhi	3 <sup>rd</sup> November 2006	One Day
ARM Technologies for Embedded systems	ARM Connected Community Technology Symposiums, Noida	November 6th 2006	One Day
20 <sup>th</sup> Int.conf on VLSI Design and 2 <sup>nd</sup> Int. conf on Embedded Systems Design	VLSI society of India, MIT, IEEE Electronic devices and circuits, ACM (Banglore)	05 <sup>th</sup> Jan2007	09 <sup>th</sup> Jan2007

Orientation course	Centre for professional development in high education, university of Delhi.	11-03-2008	10-03-2008
FDP on “ Wireless Communication and Mobile Computing”	USIT, IP University	22-12-2008	02-01-2009
22 <sup>nd</sup> international conference on VLSI and 8 <sup>th</sup> international conference on Embedded systems	VLSI society of India, MIT, IEEE Electronic devices and circuits, ACM (New Delhi)	05-01-2009	09-01-2009
Summer Faculty Research Fellow Program – 2009	IIT Delhi	15-05- 2009	21-07-2009
24 <sup>th</sup> international conference on VLSI and 10 <sup>th</sup> international conference on Embedded systems	VLSI society of India, MIT, IEEE Electronic devices and circuits, ACM (Chennai)	05-01-2011	09-01-2011
Qt for Mobile Training	organized by Nokia, Bangalore	9 th February, 2011	10 th February, 2011
TWFLRA-2017, " International Workshop on Fuzzy Logic Research Applications"	IGDTUW Delhi	16 Sept2017	20 <sup>th</sup> Sept2018
EMPOWER-2018	IIT Delhi Sonipat	Oct 2018	
Short Term Course on “Mobile Computing and Application Development” at IGDTUW,Delhi organized by	NITTTR Chandigarh & IGDTUW	11 March, 2019	15 March, 2019
EMPOWER-2019	IIT Delhi Sonipat	Oct 2019	EMPOWER-2019

## Patent Publications & Technology Transform

### Patent/IPR:

- i. Complete Indian Patent has been published on “**System for building, customizing software and hardware interfaces of smart phone uses Raspberry Pi**” via Application No: **249/DEL/2015, CBR No. 1206.**
- ii. Complete Indian patent was filed on “**Soil multi parameters, remote monitoring & alerting system-Using Intel Galileo Gen-2**” Application No: **156/DEL/2015, CBR No. 1227.**
- iii. A provisional patent has been filed on “**Aqua-parameters monitoring and controlling**” with application number: **201611017103**
- iv. Ankita Gulati, M. Balakrishnan AND DR. SRN Reddy, Filed A Provisional Indian Patent on “**Multimodal interaction system & method for visually impaired**” Application No.-**201611016353.**

### Patent Under Process for filling year -2019

- v. Smart food ProWaC (Processing, Washing, Cooking) for household applications
- vi. CARE Protocol: Context Aware & Resource Efficient Protocol framework for IoT application
- vii. STELA: Smart Teaching, Education, Learning Assessment Framework with a Practical Approach.
- viii. Smart Education Kit: A Platform for Teaching, Learning, Assessment for Selected Electronic Subject

### Technology Transfer

MY\_SMART PHONE KIT [Sponsored by Microsoft Mobile University Relations (Nokia University Relations) and Association with MHRD (DIC & ITRA)] is designed to be used for M.Tech, B.Tech, MCA, BCA, Diploma courses of CSE/ITECE/EEE as a practical experimental setup for various courses. Patented Technology is transferred currently to one manufacturer to produce My Smart Phone kits: Ms. Trinity Microsystems Pvt. Ltd. Delhi.

**Note-for more details about technology transfer kindly visit following link**

<http://mysmartphonekit.mobileeducationkit.net/index.php/technology-transfer/>

## Creations of Lab Manual & Courses

### Lab Manuals Published

- i. **Design & Development of IoT application using Intel based Galileo Gen2 Board- A practical Approach** (Experimental Manual For B.Tech& M.Tech Students)  
<http://mobileeducationkit.net/labmanuals/LAB-Manual-Intel-Galileo.pdf>
- ii. **Lab Manual of Mobile Architecture & Programming (Experimental Manual For M.Tech Students)**  
<http://mobileeducationkit.net/labmanuals/LAB-Manual-MAP.pdf>.
- iii. **Design & Development of IoT application using Qualcomm Snapdragon SoC- A practical Approach** (Experimental Manual For B.Tech& M.Tech Students)  
<http://mobileeducationkit.net/labmanuals/LAB-Manual-Qualcomm.pdf>
- iv. **Lab Manual on Evaluation of Intel Architectures – An Experimental Manual for System on Chip (SoC), Operating System, pervasive computing and Embedded System**(Experimental Manual For B.Tech Students)  
<http://www.mobileeducationkit.net/intel/lab-manual-intel-edison.pdf>
- v. **Lab Manual on Gesture Recognition and Voice Synthesis using Intel Real Sense. An experimental manual for Design and Development of Mobile Devices.**  
<http://www.mobileeducationkit.net/intel/lab-manual-intel-realsense.pdf>
- vi. **Design & Development of IOT/Embedded application using ARM(LPC11U24 ) based mbed board A Practical Approach** (Experimental Manual For B.Tech& M.Tech Students) For SoC and Embedded systems in association with ARM university program and ITRA  
<http://www.mobileeducationkit.net/labmanuals/LAB-Manual-mbed.pdf>
- vii. **Design & Development of a Re-Programmable Embedded Systems : A Practical Approach based on 8051 architecture**(Experimental Manual For B.Tech& M.Tech Students)for SoC with support of ITRA  
<http://www.mobileeducationkit.net/labmanuals/LAB-Manual-8051.pdf>
- viii. **Design & Development of IoT Application Using Raspberry Pi2 and ThingSpeak A Practical Approach** (Experimental Manual for B.Tech & M.Tech Students)  
<http://www.mobileeducationkit.net/labmanuals/thingspeak%20lab%20manual.pdf>
- ix. **3D Printing A Experimental Manual For Product Designing**  
<http://www.mobileeducationkit.net/labmanuals/Lab%20Manual%203d%20Printer.pdf>
- x. **Laser Cutting Machine A Experimental Manual For Product Designing**  
<http://www.mobileeducationkit.net/labmanuals/Lab%20Manual%20Laser%20Cutting.pdf>

**Note:- for more details about the manual kindly visit following link**

<http://www.mobileeducationkit.net/labmanuals/>

<http://www.dic-igdtuw.com/lab-manuals/>

## **Course Creation**

- i. Wireless Sensor Network
- ii. SOC Design
- iii. Mobile and Pervasive Computing
- iv. Mobile Operating System
- v. Build Smart Mobile Devices
- vi. Embedded System Design
- vii. IoT & Its Application
- viii. Robotics & Its Application

**Note:- for more details about the manual kindly visit following link**

<http://www.dic-igdtuw.com/courses/>

<http://www.mobileeducationkit.net/index.php>

## **Online Support**

- i. Online Web Portal for Mobile Education consisting of lab manuals and other details:  
<http://www.mobileeducationkit.net/>
- ii. Online Web portal for My SmartPhone Kit:  
<http://mysmartphonekit.mobileeducationkit.net/>
- iii. Online Student feedback blog:  
<http://blog.mobileeducationkit.net/>.
- iv. Online Web Portal for DIC-MHRD Project details:  
<http://www.dic-igdtuw.com/>



## Awards & Achievements

1. Dr. SRN Reddy, Assoc Prof. was awarded for **Promoting Technologies for Higher Education and Fostering an Inclusive and Innovative Education** in India by the Vice President, Intel, in July 2016.
2. Ankita Gulati, Dr.S.RN Reddy won **Gandhian Young Technological Innovator Appreciation Award** for her project "TEDKIT-An Audio Tactile Storybook for Visually Impaired Children".
3. Certificate of Recognition for Zeenat Shareef, Sonal,Dr.SRN Reddy for entering the finale of **Atmel Embedded Design Contest 2014**, a national level competition with the project titled "Remote Health Monitoring System for Detection of Congenital Heart Diseases in Neonates".
4. Ankita Gulati, FatemaMotiwala,Daffodils won second prize in **ARM Student Contest 2014** for their project "CHAKSHU: RFID Based Shopping Assistant for Visually Impaired Persons.
5. Zeenat Shareef, Dr.SRN Reddy won first prize in **National Conference on Product Design 2016** sponsored by Microsoft and Intel held in MSRIT Bangalore, for the project "IOT Based Framework for Aquaculture".
6. Mr Sanjay Kumar (Research Associate), Ms. Zeenat Shareef (PhD Scholar), Dr.SRN Reddy won First position at **Research Showcase** held at Indira Gandhi Delhi Technical University for Women. Cash award was presented by Mr.Manish Sisodia, Dy.C.M Delhi.
7. ZeenatShareef, Dr.SRN Reddy won **Best Dissertation Award** and cash prize for dissertation work titled "Evaluation of Intel Architecture" in Masters of Technology, June 2015.
8. Zeenat Shareef, Dr. SRN Reddy won **Best Student Paper Award** and cash prize for the presenting the paper "IoT Based Platforms: A Review and Case Study of Intel Edison" at ICEIT Conference on Advances in Mobile Communications, Networking and Computing,New Delhi, 16-17 April 2015.
9. Manasi Mishra, Dr.SRN Reddywon second prize for **best M.Tech Dissertation in Research Showcase** held at IGDTUW.

### Other AcademicHonor:-

- Received Cash Award of Rs.10,000 for Best Teacher Award from MBIT in 2002.
- All India 8<sup>rd</sup> Rank in M.Tech entrance examination, and class 3<sup>rd</sup> in M.Tech, JNU, India
- Class First in DECE (Diploma in Electronics and Communication Engg)
- School First in SSC (Xth Class)
- Projects guided by me are selected as Best Project at university level in CSE Dept [Twice] and reached quarter finals in "Embedded Challenger Cup", organized by Microsoft.

## Publication (Books & Papers)

### Book Publication

1. **Version 1:**Dr.SRN Reddy, Suresh Chande “**Design and Development of Smart Phone: A Practical Approach by using Raspberry Pi**”, SPD, April 2015.
2. **Version 2:**Dr.SRN Reddy, Suresh Chande “**Design and Development of Smart Phone: A Practical Approach by using Raspberry Pi 2**”, SPD, revised January 2016.

### Paper Publications

#### Publications till 2010

1. S RN Reddy, Parimala.N, A Graphical User Interface for Embedded Systems Design, *Proceedings of 7th VLSI Design & Test Workshops (VDAT 2003)*, Elite Publishing house, August 2003, pp 235- 239.
2. S RN Reddy, Parimala.N, Processor Selection for Embedded Systems Design, *8<sup>th</sup> VLSI Design & Test Workshops (VDAT 2004)*, Elite Publishing house, August 26-28, 2004.
3. S RN Reddy, Parimala.N, Code Optimization for embedded systems using DAG, THR, and Graph Transformations and Code generation using Labeling Algorithm. *Proceedings of the 7<sup>th</sup> International conference on Information technology, CIT 2004*, Universities press, pp 374 -384.
4. S RN Reddy, Selection of *RTOS* for an Efficient Design of Embedded Systems, *International Journal of Computer Science and Network Security (IJCSNS)*, VOL.6 No.6, June 2006, pp 29-37.
5. Ms. N.Zehra, S RN Reddy, Integrated Development Environments for Embedded Systems Design, in proceedings of NC-ECC-06, Delhi, Feb 2006.
6. Parimala.N, S RN Reddy , Processor Selection for Embedded Systems Design, *International Journal of Computer Science and Applications*, Vol.30, No.4, 2008, ACTA Press, Canada.
7. SRN Reddy, Puish, “Design of Generic Remote Monitoring and Control System based on GSM” published in 16th annual International Conference on Parallel and Distributed Processing Techniques and Applications(PDPTA'10),July 12-15, 2010 ,Las Vegas, Nevada, USA.
8. S RN Reddy, Parimala.N, Processor Selection – A Review and Classification, *International Journal of Computer Science and Applications*, ACTA Press, Canada [Accepted and final Review]

9. S RN Reddy, Parimala.N, IDE Selection and Evaluation framework for embedded systems, accepted for the publication in *International Journal of Discrete System, Serial Publications,2010-11*.
10. SRN Reddy, Nupur Prakesh, and ReddiPradad, “ Mobile Device Programming and It’s Applications”, Published in the proceedings of the National Conference on “ Advances in Wireless cellur Telecommunications: Technologies and Services”, pp: 162-165, 2011.

#### **Publications during 2010-11**

11. *Radha Agarwal, S.R.N. Reddy* “A Survey of WSN Simulators and Experimental Kits Application ” ,International Journal of Graphics & Image Processing (IJGIP) Volume1,Issue1.
12. *Tanima Ghosh,S.R.N Reddy*, “ Band Gap Reference Generator for low voltage supply by (-ve) feedback loop”, IFRSA International Journal of Data Warehousing & Mining , Vol1|issue 1|Aug 2011.
13. SRN Reddy, M. Balakrishnan, “Technology Teaching Computer Architecture Using a Mobile Device”, Workshop on Computer Architecture Education In conjunction with FPT 2011, December 15th, 2011 IIT Delhi, India.
14. SRN Reddy, Deepanshu Goyal and Ankit Bansal ,” Mobile Based Attendance Management System” accepted for publication in 3rd International Conference on M4D - Mobile Communication for Development , Feb 28-29, 2012, Delhi, India.
15. S.R.N. Reddy, Neha Singh, Riya Verma, and Vandana Upreti, “ FOMR: Fair Opportunistic Multicast Routing Scheme for Wireless Mesh Networks”, Lecture Notes of the Institute for Computer Sciences, Social Informatics, and Telecommunications Engineering, Volume 72, Springer Publications-2012 , pp 351-361. [<http://www.springerlink.com/content/k8455234565v1331/>]
16. Reetu Saini and Dr. S.R.N. Reddy,” Case Study: Intel Processor Selection for Experimenting the Architectural Features Along with ALP”, International Journal of Applied Engineering Research, Volume 6, Number 18 (2011) special issues,pp:2663-2667.
17. Indu Gautam, S. R. N Reddy, “Innovative GSM Bluetooth based Remote Controlled Embedded System for Irrigation”, IJCA Journal, Volume 47 - Number 13, June 2012.
18. Vini Madan, S. R. N Reddy, “ GSM-Bluetooth based Remote Monitoring and Control System with Automatic Light Controller”, “International Journal of Computer Applications (0975 – 8887), Volume 46– No.1,pp:20,28, May 2012.
19. Purnima, S.R.N. Reddy, “ Design of Remote Monitoring and Control System with Automatic Irrigation System using GSM-Bluetooth”, International Journal of Computer Applications (0975 – 888) Volume 47– No.12, pp:6-13, June 2012.

20. Vini Madan and SRN Reddy, "Review of wireless sensor mote platforms", VSRD international journal of electrical, electronics & communication engineering Vol 2, No. 2, PP:50 to 55, 2012.
21. Tanima Ghosh, and S.R.N Reddy, " Band Gap Reference Generator for low voltage supply by (-ve) feedback loop", IFRSA International Journal of Data Warehousing & Mining |Vol1|issue 1|pp:64,68, Aug 2011.
22. Conducted two day National Workshop on "Mobile System Programming", (NWMSP - 2012) during 10th - 11th Feb, 2012, Organized By School of Electronics, Devi Ahilya University [<http://www.elex.dauniv.ac.in/ElexWorkshop.php>]
23. Megha Agarwal, Dr. SRN Reddy, "Processor Selection - An Implementation of Digital Tachometer using GSM", AICTE Sponsored International Conference on "Recent Trends in Computing, Mechatronics and Communication" February 25- 26, 2012.
24. Dr. SRN Reddy, Akriti Bagaria, Divya Aggarwal, Namrata Arora, " Analysis of Fingerprint Data in Cellular Networks: An Android Application Case Study 2012 International Conference on Computer Technology and Science (ICCTS 2012) IPCSIT vol. 47 (2012) © (2012) IACSIT Press, Singapore DOI: 10.7763/IPCSIT.2012.V47.40
25. Megha Agarwal, Dr. SRN Reddy, " Survey of various technologies for Object Identification for Differently Abled People", CiiT International Journal of Automation and Autonomous System, Vol 4, No 6, June 2012. <http://www.ciiiresearch.org/aajune2012.html>

#### **Publications during 2012-2013**

26. Megha Agarwal and Dr.S.R.N.Reddy "Low Frequency RFID Based Object Identification System for Blind People: RFASSIST" in International Journal of Emerging Trends in Electrical and Electronics (IJETEE – ISSN: 2320-9569) Vol. 3, Issue. 2, May-2013.
27. Anjum Awasthi and S.R.N Reddy, "Monitoring for Precision Agriculture using Wireless Sensor Network-A Review" in Global Journal of Computer Science and Technology Network, Web & Security, Volume 13 Issue 7 Version 1.0 Year 2013
28. Manasee Patil and S.R.N. Reddy, "Comparative Analysis of RFID and Wireless Home/Office Automation" in International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume-3, Issue-3, July 2013
29. Deepti Bansal and S.R.N Reddy, "WSN Based Closed Loop Automatic Irrigation System" in International Journal of Engineering Science and Innovative Technology (IJESIT) Volume 2, Issue 3, May 2013, pp- 229 ISSN: 2319-5967

#### **Publications during 2013-14**

30. Manasee Patil and S.R.N. Reddy, "Design and Implementation of Home/Office Automation System based on Wireless Technologies" in International Journal of Computer Applications (0975 – 8887) Volume 79 – No6, October 2013

31. Usha Sharma and S.R.N. Reddy, “ Implementation of a WSN based Home/Office Automation (HOA)” in International Journal of Engineering and Advanced Technology (IJEAT) ISSN: 2249 – 8958, Volume-3, Issue-3, February 2014 370 *Published By: Blue Eyes Intelligence Engineering & Sciences Publication Pvt. Ltd.*

#### **Publications during 2014-15**

32. Garima, Nidhi Agarwal and Dr. SRN Reddy “Design & Development of Daughter Board for Raspberry Pi to Support Bluetooth Communication using UART” in ICCCA-2015 (IEEE conference).
33. Manisha Sharma, Nidhi Agarwal and Dr. SRN Reddy “Design and Development of Daughter Board for USB UART Communication between Raspberry Pi and PC” in ICCCA-2015 (IEEE conference).
34. Zeenat Shareef and Dr.S.RN Reddy, “IoT Based Platforms: A Review and Case Study of Intel Edison”, ICEIT Conference on Advances in Mobile Communications, Networking and Computing, 16-17 April 2015.
35. Manisha Sharma, Dr. SRN Reddy,”Design& Development of Reconfigurable Raspberry Pi Base Station for Agri-Parameters Monitoring”, In proceedings of ICEIT Conference On Advances in Mobile Communication, Networking & Computing-MCNS 2015,New Delhi.
36. Nishtha Arora, Sanjay Kumar, Dr. S.RN Reddy, “Building and Customization of A Kernel Module for TFT LCD Display for Raspberry Pi” in ICEIT Conference on Advances in Mobile Communications, Networking and Computing.
37. Sonal, Reddy SRN, Yadav K. Dinesh “m-Health Monitoring System for Diagnosis of Sleep Apnea” National Conference on Advances in Mobile Communications, Networking and Computing, April 16-17, 2015, p.p.216-219.
38. Neha Bhati, “Healthcare Applications of Non-Invasive Wearable Sensors: A Review”, Vibha, ICEIT Conference on Advances in Mobile Communications, Networking and Computing”, 2015, New Delhi
39. Ankita Gulati, FatemaMotiwala, Dr. S. R. N. Reddy, “Selection of Technologies for Indoor Navigational Aids for People with Visual Impairment” in ICEIT Conference on Advances in Mobile Communications, Networking and Computing, pp. 235-239.
40. Pratibha Goel and S.R.N Reddy, “Visually Impaired Child Tracking Based on GPS and GSM Technology” in Proc. of ICEIT Conference on Advances in Mobile Communications, Networking and Computing, April 16-17, 2015,pp. 230-234.
41. PushpanjaliKumari and Dr. S.RN Reddy, "Accelerometer based fall detection system for elderly", ICEIT Conference on "Advances in Mobile Communications, Networking and Computing", April 16-17, 2015.

42. Zeenat Shareef, Sonal, Reddy SRN, Yadav K. Dinesh “Remote Health Monitoring System for Detection of Congenital Heart Diseases in Neonates” Atmel Newsletter 2015.
43. Jasleen Kaur, Nidhi Agarwal AND DR. S.R.N REDDY, “System on Chip (SoC) for Mobile & Hand-held Devices- A Case Study”, ICEIT Conference on Advances in Mobile Communications, Networking and Computing, 16-17 April 2015.
44. Sunita KumariChaurasia& Dr. S.R. N. Reddy, “Selection & Case Study of Embedded Boards for Internet of Things”, Institution of Communication Engineers and Information Technologies (ICEIT) Conference on Advances in Mobile Communications, Networking and Computing. pp- 247-250.

#### **Publications during 2015-16**

45. Nishtha Arora, Nidhi Agarwal, Dr. S. R. N. Reddy, “FunPi: An Interactive Learning Experience Using Story Narration” in ICCCT’15 September 25-27, 2015, Allahabad, India
46. Rashmi Priyadarshini,S.RN Reddy,R.M. Mehra “Design, Development And Deployment Of MultiSensor Node Based Wireless Sensor Network For Campus Monitoring”,International Journal of Applied Engineering Research ISSN 0973-4562 Volume 10, Number 3 (2015) pp. 5599-5615.
47. Rashmi Priyadarshini,S.RN Reddy,R.M. Mehra “Occupancy-Based Energy Management and Campus Monitoring using Wireless Sensor Network”, International Journal of Engineering & Technology IJET-IJENS Vol:15 No:01.
48. Rashmi Priyadarshini,S.RN Reddy,R.M. Mehra “A Noble Approach for Campus Monitoring”, World Academy of Science, Engineering and Technology,Vol:7
49. Dr. S.R.N. Reddy, Mr. Sumit K Yadav, Monika, Preeti Sharma, NicyTaneja“SHome: A Smart Home Environment with Gen2”, 2016 International Conference on Computational Techniques in Information and Communication Technologies (ICCTICT), pp-606-610.
50. Sakshi Gujral and Dr.SRNReddy,”Motion Activated Surveillance System” in International Journal of Innovative Research in Science,Engineering and Technology, Vol. 5, Issue 5, May 2016

#### **Publications during 2016-17**

51. Dr. SRN Reddy, Jasleen Kaur, Suresh Chande, “Summer Training Programs – A Practical & Collaborative Approach in Technical Education through Mobile Education Kit”, Int. J. Mobile Learning and Organization (IJMLO).
52. Monika Mor, Jasleen Kaur, Dr. SRN Reddy, "My Smart BT: A Bluetooth based Android Application for controlling IoT appliances using graphical analysis of sensor data", Int. J. of Mobile Network Design and Innovation (IJMNDI).

53. ZeenatShareef,SRNReddy,"IoT Based Framework for Aquaculture",National Conference on Product Design 2016,1st -3rd July 2016, MSRIT, Bangalore.
54. ZeenatShareef,SRN Reddy, "PrEduSense:Pre Primary Education Kit Using Intel Real Sense", India International Conference On Information Processing (IICIP-2016).
55. Manasi Mishra, SRN Reddy, "Design and development of customised mote for WHAN", National Conference on Product Design 2016.
56. Pawan Kumar, Sanjay Motia and Dr. SRN Reddy, (2016), "Wireless Soil Multi-parameters Remote Monitoring and Alerting System" National Conference on Product Design 2016, Paper ID -021, 1st -3rd July 2016.
57. Pawan Kumar, Dr. SRN Reddy, 'Design and Development of M3SS: A Soil Sensor Node for Precision Agriculture', 2nd IEEE International Conference on Recent Advances and Innovations in Engineering, Poornima College of Engg., Jaipur, India.
58. Ankita Gulati, M., Balakrishnan and Srn Reddy, "TEDKIT:An Audio Tactile Storybook for Visually Impaired Children", National Conference on Product Design 2016.
59. Amrita Joshi and Srn Reddy., "ABHAYe : An Assistive System for Blind Pedestrian", National Conference on Product Design 2016.
60. Garima Khanna, Manisha Bindal, Yamini Pandey and Swati Gahlaut,SRN Reddy, "Designing of "VahanPraharee" – A Vehicle Surveillance and Monitoring System", National Conference on Product Design 2016.
61. Jithu Nair and S.R.N Reddy, "PiLearning: A Fun-learning Android experience on Raspberry Pi for small children", National Conference on Product Design 2016.
62. BarkhaPundir, Monika, S.R.N. Reddy,Monika Choudhary, "iCloudSpace: an Open Source Private Cloud Solution for College Campus", National Conference on Product Design 2016.
63. Garima Jain, Shreya Gupta, Aalo Majumdar, Sakshi Jain, SRN Reddy, "NAVICAMP-Campus Navigation System", National Conference on Product Design 2016.
64. Kirti Paliwal,AmrithaSrivatsava, Dr. SRN Reddy, "Smart Food-Tracker:Smart monitoring system for food safety", National Conference On Product Design 2016.
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**Note:-\* for more details about publication of Prof. SRN Reddy Kindly visit Google scholar Profile [Link](#)**

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SRN Reddy - Google Scholar Citations



**SRN Reddy**

IGDTUW, Delhi

Embedded System

IoT

Mobile Architecture Programming

Product Design

Sensor Interfacing

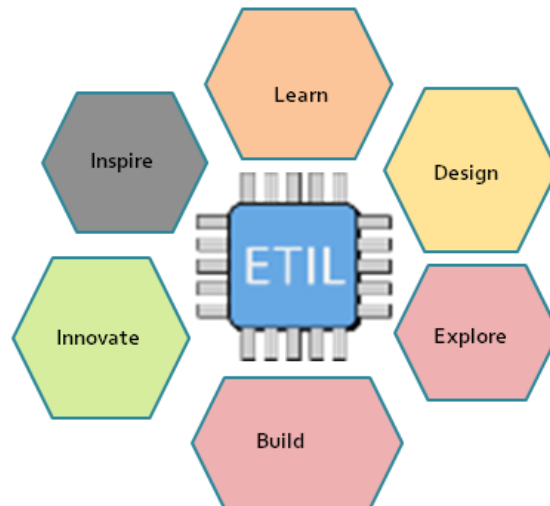
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## Start-up

Dr. SRN Reddy along with Ms. Manasi Mishra, Mr. Rachit Thukral have applied for the start-up **ETI Labs Pvt Ltd**. Two directors of ETI Labs Pvt. Ltd. has worked under the project of DIC and started the company with support of this project. Mr. Rachit Thukral worked as a Pre-Incubation Fellow for 2 years and Ms Manasi Mishra worked as a project associate for six months in DIC project to carry out various R&D activities and prototype designing. The company was incorporated as ETI Labs Pvt. Ltd. under ROC on 25/09/2017 and got its first project from INTEL.



### **Objective:-**

Our mission is to minimize the gap between theoretical and Practical education in engineering institutions by providing wide range of integrated materials which includes Theory (book), Practical (Kit +manual) & real-life projects (project kits) towards innovation. While doing all this, we believe that Engineering is fun and ensure all our students have fun learning with practical approach and creating solutions to the end user problems.

At ETI labs our attempt is to break through all potential barriers in study of hardware and software based courses by providing hands-on technical training in various domains. We provide training in the field of embedded systems, Internet of Things, mobile computing, wireless sensor network & wireless communication. We also provide a range of electronic design services to assist you throughout the electronic product development cycle. ETI labs offers a set of complementary components that enable experimentation on innovative services for academic and industrial users.

The products provide a way to experiment with Microcontrollers, mobile wireless communications, Sensor networks and many more latest technologies thereby accelerating the design of Future Internet of Things applications.

**Note:- For more Details about the Start-up ETI Lab Pvt ltd kindly visit the following link**

<http://www.etilabs.com/>

## Future Plan

### Proposed Future Plan

1. **Practical Education:-** Further, provide the practical education in different subjects in collaboration with new teaching methodologies with industry relevance technologies and platforms
2. **Quality Research:-** Generate quality IPR and concentrate further on focused area in collaboration with foreign universities and industries with the PhD students
3. **Infrastructure:** A multidisciplinary collaborative product design lab will be created to provide and improve the facilities in the **product design** for UG, PG and PhD students
4. **Entrepreneurship and Start-up :-** Translation of the technology into products and promote and scale these products/ services to the end users through proposed start-up “**ETI Labs Pvt. Ltd.**” with the students