PRATHYUSHA
ENGINEERING COLLEGE
Aranvoyalkuppam

ANNUAL REPORT - 2015-2016

The Principal,
Dr. P.M. Beulah Devamalar,
B.Sc., M.C.A., M.Phil., M.Tech., Ph.D., (PDF-IIT-M), LMISTE

Prologue:

Annual Report 2015-2016 brings you the success stories we have crossed during the academic year 2015-2016. The solemn occasion happens under the revised nomenclature PRATHYUSHA ENGINEERING COLLEGE. I grab the proud opportunity of presenting the Annual Report, with pleasure. 2015-2016 happened to be a year where we have scaled new heights in all fields.

We believe in Nelson Mandela's words, "Education is the most powerful weapon which you can use to change the world". All the strenuous efforts taken by the Principal, the Management, the teaching and non-teaching staff are aimed at transforming the education caliber, co-curricular and extra-curricular performances, workshop practices, seminar and conference activities, Industrial Visits, trainings, internships and development of personality and skills development of our students into successful, rewarding and sustained career and happy and prosperous life settlement. Of course, that is the ultimate aim of professional education. Our alumni are able technocrats and flourishing entrepreneurs in India and overseas.

About our Institution:

At the outset I am proud to proclaim that our hard work has secured 'A' Grade accreditation by the National Assessment and Accreditation Council. Prathyusha has earned a reputed position in the bunch of Engineering colleges in Chennai. The institution is working with accelerated momentum under the new title PRATHYUSHA ENGINEERING COLLEGE. The innovative techniques introduced in the teaching methodologies, the time to time updation of infrastructure at par with the revision of curriculum in the Anna University regulations, the constant efforts extended to the students in uplifting their academic status, the meticulous training and placement activities and the provision and exchange of technical knowledge through seminars, symposiums, guest lectures campus lectures, opening new

pastures in knowledge hunt and infusing physical and ethical strength remain unexcelled by any other institution.

2.0 Academics:

2.1 Admission:

Academic year 2015-2016 dawned murky over many an institution. In a scenario where colleges were struggling for existence Prathyusha maintained the same admission status as in yesteryears. Ambitious juveniles from various backgrounds converged under one canopy, Prathyusha, to gain engineering education, to start their quest for technological knowledge explosion and to attain the highest achievement in life. The academic year started in June 2015 for senior students and the freshers were inducted on the 11th of August 2015.

2.2 Results:

The resultwise turn over of an academic year is the proof of the teaching learning processes that happened throughout the year and is evidenced on the Graduation Day. I can feel the wave of satisfaction vibrating in the auditorium among parents, graduands and faculty members who strove hard for this grand occasion.

Roll of Honour (Academics)

Result and placement are the benchmarks against which the quality of the performance of a college is assessed. I feel proud to state that the number of graduands is increasing year by year. This solemn day 560 graduands are taking their degrees among whom 23 are Anna University Rank Holders and 40 of them are getting Department Topper Merit Awards from the management.

PITAM - AU RANKS – 2015 – 2016

S. No.	Branch	Name	Rank	CGPA
1.	M.E.CSE	VISHNU PRIYA P	34	8.67
2.		SANDHYA T	42	8.56
3.	M.E.CS	SELVA REMYA T S	24	8.59
4.		MELFA STEFFY C T	30	8.51
5.		ANBARASI A	48	8.25
6.	M.E.AE	RASATHI J	38	8.49
7.		VIDHYAWATHY V	40	8.46
8.		PAVITHRA M	43	8.42
9.		INDUMATHI K	44	8.41
10.	M.E.PED	MALLIGA A	23	8.7
11.		DIVYA A	29	8.62

12.		NISHATHINI R S	36	8.53
13.		REKHA P	42	8.45
14.	M.E.SE	SHIFU JAHAN N	12	8.99
15.		POORANIYA P	25	8.78
16.		ANANDHI S	27	8.74
17.		RAJAKUMARI R	27	8.74
18.		KALPANA V	33	8.66
19.		PRAVEENA A	47	8.47
20.	B.E. ECE	PAVITHRASHRI B	24	9.02
21.	B.E. EEE	GALI VEDAPRASANNA	35	8.86
22.	B. Tech. IT	MANJARI KU	40	8.60
23.	B. Tech. BT	PRIYANGA G	23	8.83

ANNA UNIVERSITY RANK HOLDERS 2014 - 15

23
PRIYANGA G
B.Tech. (Biotech)

24
PAVITHRASHRI B
B.E. (ECE)

35
GALI VEDHAPRASANNA
B.E. (EEE)

40
MANJARI KU
B.Tech. (IT)

12
SHIFU JAHAN N
M.E. (Struct.)

23
MALLIGA A
M.E. (PED)

24
SELVA REMYA T S
M.E. (CS)

25
POORANIYA P
M.E. (Struct.)

27
RAJAKUMARI R
M.E. (Struct.)

27
ANANDHI S
M.E. (Struct.)

29
DIVYA A
M.E. (PED)

30
MELFA STEFFY C T
M.E. (CS)

33
KALPANA V
M.E. (Struct.)

34
VISHNU PRIYA P
M.E. (CSE)

36
NISHATHINI R S
M.E. (PED)

38
RASATHI J
M.E. (AE)

40
VIDHYAWATHY V
M.E. (AE)

42
SANDHYA T
M.E. (CSE)

42
REKHA P
M.E. (PED)

43
PAVITHRA M
M.E. (AE)

44
INDUMATHI K
M.E. (AE)

47
PRAVEENA A
M.E. (Struct.)

48
ANBARASI A
M.E. (CS)

3.0 Remarkable occasions of the year:

Academic year 2015-2016 can be called a year of activities that went in the making of successful engineers. The year was studded with regular academic activities enhanced with co-curricular activities like seminars, symposia, national and international conferences, guest lectures, campus lectures, online lectures, trainings, internships, industrial visits, workshops, extra-curricular activities like sports, NSS, RCC and YRC, placement drives like on campus, off campus, and pooled campus interviews. Our students were given ample exposure to technical expertise of experts in the field of education and industry through these programmes. Around 80 research papers were presented in various national and international conferences by our students and staff. 30 papers were published in conference, scientific, technical and technological journals. I would like to present a brief note on the activities of the academic year 2015-2016.

3.1 Department Associations:

The college takes up the initiative to provide knowledge expansion by organizing co-curricular activities like departmentwise seminars and symposia. The activities of PACE, the Association of the Department of Computer Science and Engineering and FOSS Club and CSI Students Chapter were inaugurated on 15.7.2015. The activities of Electronics and Communication Engineering association, ASCENT(Association of Communication Engineers and Technologists) had a kick start on 13.8.2015. The Department of Electrical and Electronics Engineering inaugurated its association PEESA (Pitam electrical & electronics students association) activities on 12.8.2015. ASPIRE (Association of Prathyusha's Information Revolutionists), the association activities of the Department of Information Technology were inaugurated on 14.8.2015. Bio-Technology department rolled out its association 'BIO-SPIRITZ' on 18.8.2015. Activities of Civil Engineering Association 'VERTEC' were set sail on10.8.2015. 'Dominus Machinus' the association of Mechanical Engineering ventured its activities on 11.8.2015. SAE India Student Convention Tier II activities were organized on 29.8.2015.

3.2 Department Symposia:

The technical fire in the minds of our students were set ablaze by throwing open new floors like paper presentation, debugging, web designing, technical quiz, project display, robo-race, and circuit debugging. Almost all the students of Prathyusha participated in the   technical

symposia organized by the departments. National Level Technical Symposium PIXUS,15 was organised by CSE Department on 17.8.2015. ECE Department organised its AAVISHKAR'15, the 7th National Level Technical Symposium on 13.8.2015. E³ Dynasty 2015, National Level Technical Symposium of the EEE Department was organized on 12.8.2015. IT Department had organized its 7th National Level Technical Symposium CONCOURS'15 on 14.8.2015. PRASHAGRA'15, is the 10th National Level Technical Symposium of the Department of Biotechnology organized on 18.8.2015. INFRAZ'15,a National level Technical Symposium and EPHEMERIDES'15, the 5th National Level Technical Symposium were organised by the Departments of Civil Engineering and Mechanical Engineering respectively on 10.8.2015 and 11.8.2015.

CONCOURS'15- National Level Technical Symposium organized by the Department of Information

Technology

3.3 Value added Programmes:

PITAM organized value added programmes like NI LABVIEW, ANDROID and Cloud Computing to dig out the latent creative talents of our students which enticed the attention and focus of CII, LABVIEW Academy, IDMS, IBM and so on by incurring internships and placements.

3.4 Guest Lectures:

At PITAM, knowledge is disseminated to the students not only by means of regular class lectures by our committed professors and assistant professors but brought from outside also by invited lectures by learned professors and subject experts from reputed universities. Knowledge about industry and the job scenario is exposed by industrial magnets by bringing them to our campus to share their expertise and experience. Around 45 guest lectures were arranged for our students by all the departments.

3.5 Industrial Visits:

Industrial visits give the students an idea into the implementation of theoretical concepts in reality in large scale in industries. One or two industrial visits are arranged every semester for students of all disciplines. Permission is sought and obtained from reputed companies and industries for such visits for the benefit of the students. Such visits make classroom teaching learning process an everlasting one due to their practical exposure. This year nearly 40 visits were arranged.

Industrial Visit for Mechanical Engineering Students to Al Safa International Pvt. Ltd.

3.6 Placement and Training:

The service rendered by the Department of Placement and Training is exceptionally good. Almost all the eligible students are placed in reputed Indian and international companies with good salary package. As a preparatory ground for placement, semesterwise training is given to students in soft skills, personality development, English for Life and Communication Skills by professional trainers like Infosys Campus Connect, Strides Consulting, and Strides Consulting, Chennai and Corner Stone Soft Skills, Bangalore. On campus, off campus, pool campus and Flag events are organized almost throughout the year. HCL Technologies, Divum Corporate Services Headrun Technologies Pvt. Ltd., Cognitive Platform Solutions, Sutherland Global Services, Ticketgoose.com, Multi Vista Global Ltd., ISNEE, Spark Minda, Adoroi Marketing Sciences Pvt. Ltd., Magic Wood Exports, TNQ Books and Journals, Gofrugal Technologies, Hinduja Global Solutions, Reliance DA, Mind Tree, Saint Gobain, Azureiken Technologies, Esko Graphics India Pvt. Ltd., Maruti Suzuki, Merrill Technologies, Prime Focus, Anna University TNSLPP, Accenture Ltd., Infosys Ltd., Visionary RCM Infotech, Stella Energy, Sodexo, Maarga Systems, Hexaware BPS, and

Mettler Toledo Turing are our regular recruiters. This year, a new array of recruiters has set in for recruitment. CSS Corp Ltd., Harita Techserv Ltd., Global Soft Solutions, Mphasis, Eureka Forbes, HTC Global Services, CTS, CSS Corp Ltd., Zifo Technologies, Ionixx Technologies, Sans Pareil IT Services, Encore Management, VertX Solutions, RT Medibus Technologies are a few to mention.

Campus Interview by VERTX Solutions

4.0 Awards and appreciations:

The innovative teaching learning methodologies adopted, the in depth research and developmental activities have earned awards and honours of repute to this college.

4.1. NAAC Accreditation:

A new feather of pride added to our crown is the 'A' grade certification by the National Assessment and Accreditation Council, New Delhi.

Handing over of NAAC report by Dr. A. Balasubramanian, Chairman, NAAC Peer Team to Dr.P.M. Beulah Devamalar, Principal during Exit Meeting on 5th March 2016.

4.2. ISTE National Award!

'TN&P Section Appreciation Award' a National Award sponsored by the ISTE (Indian Society for Technical Education) was presented to Dr. P.M. Beulah Devamalar, Principal, Prathyusha Institute of Technology and Management for mobilising maximum life membership from 1.6.2014 to 31.5.2015. The award was presented at the eighteenth ISTE Students Annual National Convention 2015, organised by Kings College of Engineering, Punalkulam, Kandarvakottai TK, Pudukkottai which was conducted on 30.10.2015 and 31.10.2015.

4.3. INNOWAH Award!

The prestigious INNOWAH Award was presented to Ms. P. Pradeepa and Ms. R. Nithya, our final year Electronics and Communication Engineering students for their Innovation Challenge Project titled 'Hydrogen – Fuelling the Future', in the Innovation Challenge Contest-2015 conducted by Indian Institute of Technology, Madras. The project focussed on renewable energy.

ECE STUDENTS RECEIVING THE PRESTIGIOUS INNOWAH AWARD BY IIT –M FOR THE INNOVATIVE PROJECT " HYDROGEN - FUELING THE FUTURE"

4.4. INFOSYS Inspire Faculty Award

INFOSYS appreciates the faculty members of Campus Connect partnering institutions by recognising and rewarding them for their outstanding contributions to Campus Connect programs and events by creating a Faculty Partnership Model. Faculty members from Computer Science and Engineering and Information Technology Departments were honoured with Inspire Faculty Partnership Level Awards at the Inspire Event 2015 organized at Infosys, Mahindra City on 29.6.2015. Mr. Subba Rayudu, Mr. Mohan Indiran and Ms. M.D. Boomija, faculty members of IT department were awarded with Bronze Medals and Ms. Valarmathi Veerasamy of the same department received Silver Medal from the INFOSYS.

Infosys Inspire faculty award

4.5. E-GOVERNANCE AWARD

Our students excel in contests organised for innovative product designing. Mr. Madhan Kumar, Mr. Jothi Kirubakaran and Mr. Nanda Kumar of III year Computer Science and Engineering of our college participated in the Honorable Chief Minister's Award for Excellence in e-Governance for Students for the year 2015-16 which is instituted by having a competition for Development of Innovative e-Governance Software Application on 11.9.2015. Our students have developed an interactive website which connects the students to all the educational government services through the internet under the project title 'e-Education Portal for Government Schools'. The project was highly appreciated and secured Second position and won a cash award of Rs. 7,500/-.

District Level HON'BLE CM award(II PRIZE) for the innovative Project

E- Education portal for TN Government school from the department of Tamil Nadu e-Governance

Awardees
V.V.Madhan, G.Jothi Kirubakaran, B.Nandha Kumar of CSE,III Year
Faculty Mentor:
Dr.S. Padmapriya, Professor, CSE

4.6. CSI Best Accredited Student Branch Award !

Prathyusha Engineering College was awarded the prestigious 'Best Accredited Student Branch Award' by the Computer Society of India for Prathyusha's best performance in organising programs, contests, conferences and for having the largest number of student and faculty beneficiaries under the coordination of our Principal Dr. P.M. Beulah Devamalar. The award was conferred at the 50th Golden Jubilee Annual Convention of the Computer Society of India CSI – 2015 held in the Auditorium, Bharati Vidyapeeth Educational Complex, New Delhi – 110063 on 5.12.2015.

"Best Accredited Student branch award" for the year 2014-2015 among 418 student branches in Region VII

4.7. Our Concrete Canoe wins the Race!

A fabulous Cash Award of Rs.16,000/- was received by our final year Civil Engineering students team for the innovative project 'Concrete Canoe' under non-racing category. IIT Madras organized ICI – IITM National Concrete Canoe Competition at IIT Madras, Chennai between August 21st and 23rd 2015. The Canoe designed, modelled and demonstrated by our students won the III place. A twelve member team comprising our final year Civil Engineering students P.Thiyagarajan, S.P. Palaniappan, R. Prasanth, K.Sushmitha, P. Pavithra, K.R. Venkatesh, D. Vinod Panwar, C.V. Venkata Sharath, J. Selva Kumar, W. S. Gowtham and S.Inayathullah with R. Vignesh Nagarajan as the team Captain under the mentorship of Mr. K. Esakki Deepan, A.P. Civil Engineering Department participated in the competition.

Awardees of ICI – IITM National Concrete Canoe Competition

5.0. Milestones of 2015-2016:

5.1. Sigaram Thottavargal

Our students grab the attention of the public through media for their innovative thinking. Four teams from our college gave Innovative Project Interview for the Vasanth TV Sigaram Thodu Programme on projects related to mechanical, medical and agricultural fields and the

programme was telecast on 31.5.2015, 7.6.2015 and 14.6.2015. The project titled 'Design and Fabrication of Mini Spot Welder' was explained by our final year Mechanical Engineering students R. Arun Kumar, Deepon Das and S. Harshavardhan. P. Mageswari and F. Arthur Mascren of the same class demonstrated their project 'Design and Fabrication of Tread Mill Walker'. The agriculture oriented project 'Design and Fabrication of Groundnut Cultivating Machine' was presented by final year Mechanical Engineering students M. Mohamed Nasar Sharif, S. Elaiya Kumaran and A. Sudhan. Y.P. Prem Sagayaraj, D. Ramprasath and S.P. Ranjith from final year Mechanical Engineering highlighted their project 'Design and Fabrication of Overload Protection for Two Wheelers'

5.2. Quad-Torc – a quadruped Bike!

Roadsters, a 24 member team from our Mechanical Engineering Department emerged as finalists in the National Level Quad-Torc Championship 2015 held at Camp Wild Dhauj, Haryana from 1.8.2015 to 4.8.2015. The event was organised by ISNEE-Indian Society of New Era Engineers an organization for students focusing on the technical and managerial development of future engineers by giving them a platform to present innovative research projects. The Quad-Torc designed and modelled by our students is a four-wheeler bike, developed as a farm-to-town vehicle which can be used in isolated and mountainous areas. Our final year Mechanical Engineering team members N. Vinod Kumar, T. Vishnu Sagar, K.V. Yeshwanth Kumar, T. Siva Kumar Reddy, D. Narayana, K. Yugander, Pothugunta Tendulkar, R. Padmanaban, S. Prakash, G.P. Praveen, S. Prem Kumar, V. Pruthvi Raj, Vishnu Vijayan, G.N. Vishal, J. Vimal Raj, CH.V. Sarath Chandra, N. Sikkandar Basha, V. Sathya Moorthy, D. Vickram Raj, A. Udhaya Kumar, A. Syed Akbar, T. Pattabi Ramakrishna Reddy, R. Natarajan and M.S. Ragul Vasan finished the rounds Disassembly, Drop Test, Technical Inspection, Safety Inspection, Vehicle Identification, Tilt Test, Acceleration and Brake Test, Figure of 8, Kill the Hill, Manoeuvrability, Suspension Test, Mud Walker and Endurance and Fuel Economy successfully and emerged as Finalists. The team was appreciated for its skill and dexterity.

CONGRATULATIONS !

The Management, Principal & all the Staff heartily congratulate the students of Mechanical Engineering Final Year B section who have successfully emerged as finalist in the National Level Quad Torc Championship event "Quad Torc 2015" organized by the Indian Society of New Era Engineers (ISNEE) at camp Wild, Dhauj, Haryana from 1st to 4th August 2015.

5.3. Microsoft Virtual Academy @ PEC!

Microsoft Virtual Academy is another new feather adorning the cap of Prathyusha. The department of Computer Science and Engineering has accessed the Microsoft Virtual Academy(MVA) benefit of Microsoft by providing technical skill development support in the latest Microsoft technologies to the final year Computer Science students of Prathyusha. On-demand courses are available enabling the students, to learn at their own pace, to expand their technical horizons and in advancing their career. Mr. W. Thamba Meshach of the department of Computer Science and Engineering is the Faculty-in-charge and by coordinating the faculty members of Computer Science and Engineering department has conducted 38 MVA courses in the domains Operating System, Web-Technologies, Programming / Coding, Cloud Computing and Introductory lessons / Fundamentals. Students who completed the courses successfully were certified by MS Learning Experience Group, Microsoft Pvt. Ltd.

5.4. National Science Day at Prathyusha!

Prathyusha hosted the One Day National Level School Children Science Competition ' Newer vista in Science' 30.10.2016. Ms. B. Amudha, Director and Scientist-D, INSAT - Automatic Weather Station, Regional Meteorological Center, Chennai inaugurated the competitions and encouraged the students to involve in implementing innovative Science Projects. Children participants were categorized into 3 age groups namely A, B and C and various competitions were conducted for each level of students. Essay Writing, Pencil Drawing, Collage Making, Quizofest and Model Making competitions were conducted for A Category (H.Sc.) students. Model Making, Paper Presentation and Painting competitions were conducted for B Category (9th & 10th) students. C category (Junior) students participated in Model Making, Quiz, Paper Presentation and Painting competitions. Around 250 students

participated in all the events and Cash Prizes worth Rs.51,000/- were awarded to the winners. Dr. T. Thyagarajan, Director, Centre for University Institute Collaboration, Anna University, Chennai was the Chief Guest for the Valedictory function and distributed the prizes to the winners. The programme was supported and sponsored by Tamil Nadu Science and Technology Centre, Chennai, National Scientific Suppliers and Rotary Club of Meenambakkam.

5.5. Memorable February 22, 2016!

Every year February 23rd is fondly remembered by the members of the Prathyusha family – yes, it is the day on which Shri P. Rajarao, the founder Chairman of Prathyusha Group of Companies was born. On this day, Blood Donation Camps are organized at Prathyusha. Blood banks from various parts of the city had arranged to collect blood units from our student donors. Overall, 451 donors donated blood. 110 students donated blood for Rajiv Gandhi Government Hospital, Chennai. 65 students donated blood for Voluntary Health Services, Adyar, Chennai. 109 students donated blood for Cancer Institute, Adyar, Chennai. 67 students donated blood for Jeevan Hospital, Chennai. 100 students donated blood for Government Hospital, Thiruvallur. The blood given by the volunteers was very useful to save the critically ill patients in the hospitals. It was an act of charity extended by our students as a token of humanity.   The Principal, NSS and YRC Co-ordinators and the entire Department of Physical Education Department took more effort in making this camp a grand success and their excellent support and co-operation in this endeavor made this camp a fruitful one.

Blood Donation at College Campus

5.6. International Conference AEEICB-2016:

The International conference AEEICB (Advances in Electrical, Electronics, Information, Communication and Bioinformatics-2016 was held on 27th and 28th February 2016. Dr. S. K. Singh, Scientist-G, National Institute of Wind Energy, and Advisor, Ministry of New and Renewable Energy was the president. In his presidential address he insisted on the need for solar energy in future and introduced his current Solar Thermal Power Projects - Solar Cooling / Refrigeration Systems, Solar Radiation Measurements at NISE. Mr.Santhosh Thomas, Global Hybrid Cloud Architect, IBM Global Technology Services, Chennai, Mr. V.S. Prakash Attili, Principal, Head-Education & Training Division of Infosys, Chennai, Dr. Jeyaraj, Associate Professor & Deputy Director (acting), University of Malaya, Kuala Lumpur, and Dr. G. Giridhar, Deputy Director General / Head - Solar Radiation Resource Assessment, Ministry of New& Renewable Energy, Govt. of India, Chennai were the other honourable guests. The conference proceedings were released by Dr. S. K. Singh.

The conference had tremendous response and had a great inflow of research papers from across India and also from countries like Italy, Nepal, Egypt, Israel, Bangladesh and Sri Lanka. Over 430 research articles were received of which 155 were shortlisted and peer reviewed by experts from IIT, Anna University and NIWE.

Release of Conference Proceedings during International Conference – AEEICB 2016

5.7. Project Exhibition:

Students' creativity is unraveled by the mini and major projects done by our students during their third and fourth year degree courses. To develop a healthy competition of innovative thoughts and ideas a Project Exhibition Contest is conducted towards the close of the eighth semester. Subject experts and senior professors assess the projects and the best projects in each discipline are selected and appreciated and awarded. projects were exhibited and demonstrated by our students. The best three projects in each department were selected and appreciated by our judges. Some of the projects which were in line with real time needs are 'Mobile Control Vehicle Technology, Treatment of Domestic Sewage Water by Prefabricated Carbon Filter', 'Silver and Gold Nanoparticle Synthesis using Bambusa Arundinacea Extract – Characterization and Anti-bacterial study – Application in Burn Wounds', 'Innovation for E-Bike', 'Android and GPS Tracking Based Social Network Channelization for Demntia Patients', 'Automatic Voltage Regulator for Transformer in Distribution System', 'Predicting the Forest Fire using Image Processing', 'Job Queue Scheduling Based on Size in Hadoop using HFSP', 'Automatic Accident Alert System Using GPS and Zigbee', and 'Automatic Toll Booth Using Morphological Edge Detection'. These projects reveal our students' spirit for research and entrepreneurship.

Display of Students Projects during the Project design Contest

6. MoUs and their aftermath:

Industry-institute partnership not only brings knowledge from outside but enables our students to outreach beneficial research and job opportunities also.

6.1 . With Harita Techserv Ltd.:

MoU signed with Haritha Techserv for the Product Design and Digital Manufacturing Lab has got a good kick start. It has procured training, research and placement openings. A training programme on CATIA V5 and DELMIA was organized for final year Mechanical Engineering students to acquire in depth soft skill on the above area and the training was conducted on nine Sundays from July 2015 to October 2015. Mr.V.S.Suresh Assistant Professor, Mr.M.Karthick Assistant Professor and Mr.R.Ragavendran Assistant Professor of Mechanical Engineering Department conducted the training programme. The faculty members of Mechanical Engineering Department Dr.V. Jayaseelan, Dr.V. Muthuraman, Mr.P. Sarmaji Kumar, Mr.K. Essaski Moorthy, Mr.A.K. Nizamudheen and Mr.R. Karthick were also trained in CATIA on 1.12.2015, 14.12.2015 and 18.12.2015 who in turn will be trainers for the forthcoming batch of students.

6.2. Renewal with INFOSYS Campus Connect:

The successful tie-up with INFOSYS provides plenty of effective programmes for the welfare of the student community of Prathyusha. This tie-up with INFOSYS Campus Connect offers value added programmes like Foundation Program, Soft Skill Programs for Students and Faculty Enablement Program, Train the Trainer Program, and Sabbaticals for Faculties. The faculty training program brings together several partnering engineering college faculty members under one roof to discuss the coverage of the given course and action plans for roll-out of the same in respective colleges.

- Infosys Campus Connect Team members Mr. Roy Antony and Ms. Kalpana Balaram organized a one day Inspire Excellence award for technical events on 8.06.2015 at Infosys, Mahindra City. 11 members participated and Ms. Durga, Ms. Kannamma, Ms. Meena, Ms. Boomija and Ms. Valarmathi of Computer Science and Engineering Department and Information Technology Department received the Award of Excellence in this event.

Infosys Inspire faculty Award

- A technical seminar on Database Design was organized at Prathyusha Engineering College on 29.07.2015. 94 students from Computer Science and Engineering were benefited from this seminar.

- Ms. K. Kausalya of CSE Department and Ms. U. Jothilakshmi of IT Department attended the 'Train the Trainer Program on Database Focus Area of FP 4.0' organised by National Engineering College, Kovilpatti from 2.11.2015 to 4.11.2015. They were trained by the Infosys Campus Connect Team.

- Mr. AllinGeo of CSE Department and Ms. Omana of IT Department participated in the 'Train the Trainer Program on Software Engineering and Web Technology Focus Area of 4.0' at Kamaraj College of Engineering, Virudhunagar. Infosys Campus Connect Team trained them.

6.3. Renewal with IBM:

Tie up with International Business Machines Corporation (commonly referred to as IBM) has enabled our students to get training in administrative, business, analytical, managerial and information architectural skills. Our IBM trained students have better scope to get good jobs and to become entrepreneurs. The second year students of Computer Science and Engineering, Information Technology, Electronics and Communication Engineering, Electrical and Electronics Engineering, Mechanical and Civil departments were trained in 'Advance Software Foundation Course'. The course duration was 25 hours comprising theory and practical sessions, which gave foundation knowledge on software and programming concepts. Around 160 third year and final year students of Computer Science and Engineering, Information Technology, Electronics and Communication Engineering and Electrical and Electronics Engineering were trained on advance courses – Embedded systems, Mobile application development (Android & IOS), Cloud Computing, Enterprise Java(J2EE) and Bigdata. Another fruitful outcome of IBM is that 52 students of Prathyusha have been placed.

IBM Training

6.4. Renewal with PALS IIT Alumni Club:

The college has collaborated with PALS IIT Alumni Club and has created a platform for interaction with IITM, Academic Institutions and Industries in the form of Lectures, Industrial Visits, Industrial Summits and Department Visits. This collaboration also aids to build the Entrepreneurship skills of the students by organizing Innovation Challenge which exposes the students to Capitalists and various researchers.

Innovation Challenge

ECE Students Receiving The Prestigious Innowah Award By IIT –M For The Innovative Project " Hydrogen - Fueling The Future"

6.5 NI Lab View Academy:

NI lab has become a vital and integral part of our college research and training activities. The LabVIEW Academy set up at Prathyusha under National Instruments is an initiative for innovation striving hard to create the centre of excellence here. Students trained in the NI lab get internship in NI and NI alliance partner companies and high remunerative jobs in good companies. Some best opportunities availed are charted below:

6.5.1. Achievements:

- The following students received CLAD certification during this academic year:

Sl. No	Name of the Students	Department
1	Sri Harsha	ECE
2	Betsy	ECE
3	Hari Hara Sudhan	ECE

6.5.2. Internship and Placement:

S.No.	Name of the Student	Department	Internship / Placement	Name of the Company
1	S. Abinaya	ECE	Internship and	Electrono Solutions,

			Placement	Bangalore
2	Snehlata Yadav	ECE	Placed	Trident Tech Labs, Bangalore
3	Nitesh Jadav	ECE	Placed	Captronics Solutions, Bangalore

6.5.3. Research and Consultancy:

NI labVIEW is also taking up research consultancy work for projects of CVRDE and CWET namely

1. Analysis of Sunspot in Global Scenario using LabVIEW, a project done by PEC Students for Centre for Wind Energy Technology.

2. 15 projects on current social and industrial demands and expanding areas done by students from different branches under the guidance of experienced faculty members of our college were submitted for NIYANTRA 2016. Wireless Robo Rescuer, Design and Development of Borewell child Rescue Robot, Design of Mini CNC milling machine, Virtual Eye, Design of Blood glucose level monitoring system, Design of smart sanitation for Green India, Real Time Security And Monitoring System in School Buses, Design and Development of AMBUBOT, Artificial Bionic Hand for Disabled Persons, Solar Rechargeable Battery Charger, Energy Generation with Monopole Magnet by Rolling Pendulum and Wireless advertiser are few projects of our students who are anxious to give solutions to the troubles shooting in the field of technology.

6.5.4. Training:

Apart from all these, the lab is meticulously executing its regular tasks like training the students, conducting workshops for staff and students, motivating final year students to do in house projects and to construct project models.

175 III year Computer Science and Engineering and Information Technology students, 225 III year Electrical and Electronics Engineering students, 170 III year and Electronics and Communication Engineering students, 14 final year Electronics and Communication Engineering and Mechanical Engineering students, 20 CLAD appearing students and 52 faculty members from the departments of Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Information

Technology were trained by our NI LabVIEW Academy trained and certified Faculty members.

6.5.5. Workshops:

Workshop Conducted for Staff and students:

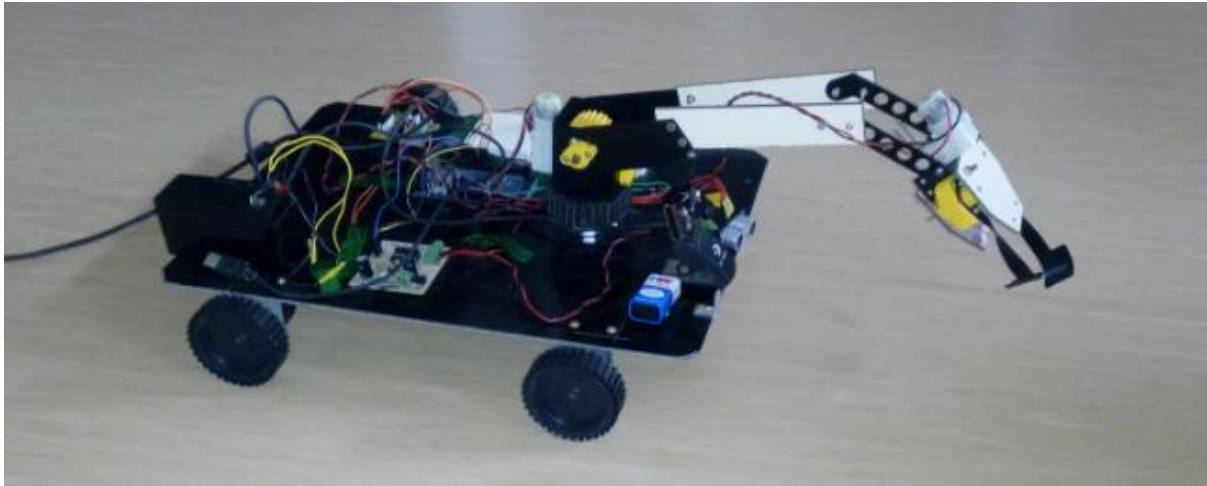| S. No.	Date	Name of The Programme	Resource Person	Durat ion	No. of Students attended	Beneficiar y
1	24.11.15-26.11.15	Hands on Training in Graphical system Design tools	P.Kalpana Devi , M.Sujatha , S.Malathi	3 days	40	ECE Faculty
2	24.12.14, 26.12.14& 27.12.14	Advance LabVIEW Training in Engineering applications	P.Kalpana Devi	3 days	13	IV yr ECE students
3	13.02.15	Development of projects using LabVIEW	Mr. Mahesh Reddy	1 day	13	IV yr ECE

LabVIEW Training for students

6.5.6. Product Models:
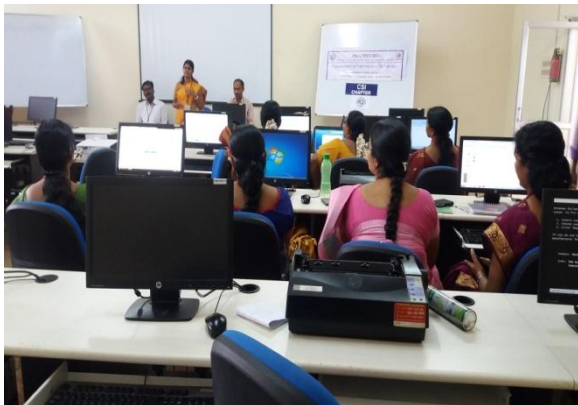 **1.** Advanced Robo Rescuer in Disaster Management System using LabVIEW

2. Design and Development of Borewell child rescue Robot

6.6. CISCO Networking Academy:

The CISCO Networking Academy of Prathyusha is striving to give our students recognition for outstanding achievement, hands-on practice and experience in a competitive environment, career opportunities and internships through increased visibility, exposure to career role models, and opportunities to engage with students around the world.

CISCO Training for students

6.6.1. Students training Courses:

Our students were trained on Cisco Certified Networking Associate Routing and Switching Essentials during the academic year 2015-2016. Students from Information Technology, Computer Science and Engineering and Electronics and Communication Engineering have enrolled in the above course. Apart from this regular course, course free certification is also provided to the students on the following topics:

- ❖ Introduction to the Internet of Everything (IoE)
- ❖ Entrepreneurship
- ❖ Get Connected
- ❖ NDG Linux Essentials Course™

- ❖ Be Your Own Boss
- ❖ Introduction to Cyber Security
- ❖ Mobility Fundamentals Series
- ❖ Packet Tracer Know How 1: Packet Tracer 101

6.6.2. Faculty Training Courses:

All the faculty members of Information Technology and Department of Computer Science and Engineering underwent the CCNA R&S training on 12.1.2016 at the CISCO Networking Academy of Prathyusha. Mr. D. Jayakumar and   Mr. A. Subbarayudu, faculty members of the Department of Information Technology were the resource persons. The training included a seminar, demonstration and training on CCNA R&S followed by an interactive session.

7.0. Professional Bodies

7.1. Institute of Electronic and Electrical Engineers:

2nd IEEE international Conference AEEICB 2016 sponsored by IEEE was held on 27th and 28th of February, 2016 at Prathyusha Engineering College, Thiruvallur. The ceremony was enriched with five invited guests from various institutions and industries.The Conference offered a wide spectrum of quality R&D updates from key experts from prestigious Universities, Institutions and Industries and provided a great opportunity in bringing the new techniques and horizons that would contribute to Electrical, Electronics, Computing, Communications and Bio Informatics in the forthcoming years.

7.2. Entrepreneurship Development Cell:

The Entrepreneurship Development Cell of Prathyusha is popularly known as PITAM VENTURA through its venturesome activities in the promotion of students' entrepreneurial and managerial skills. In association with National Entrepreneurship Network the cell organised Webinar programmes for students and faculty members, conducted online courses and training programmes for students. The following events were organised during the academic year 2015-2016:

Event Organised	Guest Speakers/Chief Guest	Event Organised in Association with	Date	No. of Students Participated
Webinar on 'Student onboarding Webinar'	Ms. Vishnu Priya, Senior Consultant, NEN	National Entrepreneurship Network	28.07.2015	30
Student Webinar on 'SmartE – The apprentice challenge'	Resource Person from Snap Deal	National Entrepreneurship Network	20.08.2015	60
NEN Webinar on 'How to facilitate blended MOOCs'	Mr. R. Dinesh Kumar, AP, Biotech. Dept. & Ms. R. Jayashree, AP-II, MBA Dept., PITAM	National Entrepreneurship Network	04.09.2015	92
MOOC's - Massive Open Online Course	Mr. R. Dinesh Kumar, AP, Biotech. Dept. & Ms. R. Jayashree, AP-II, MBA Dept., PITAM	National Entrepreneurship Network	09.09.2015	92
Webinar on 'Five things I wish I knew before starting up'	Mr. Ajay Ponna Venkatesh, CEO, Crazyyatra	National Entrepreneurship Network	10.09.2015	92
Faculty Webinar on 'Institute planning & roadmap	Ms. Vishnu Priya, Senior Consultant, NEN	National Entrepreneurship Network	15.09.2015	2

setting'				
One Day Training Programme on 'How to approach competitive exams,	Dr. K. Palanisamy, Director, All India Radio	PITAM	16.09.2015	180
Short term Skill development Course on 'Stock Market & Roof top Gardening'	Mr. R. Dinesh Kumar, AP, Biotech. Dept. & Mr. Essaki Deepan, AP, Civil Dept., PITAM	PITAM	10.09.2015 to 11.09.2015	225

7.3. Quality Improvement Cell:

7.3.1. NPTEL Chapter:

The Quality Improvement Cell of Prathyusha provides an umbrella of academic facilities for the students through its membership with NPTEL(National Programme on Technology Enhanced Learning) and creating an NPTEL Local Chapter at Prathyusha. The cell through its various activities NPTEL regular classes, NPTEL On line Certification course, Bridge course, Spoken Tutorials, MOOC and AVIEW-Live telecast lecture series facilitate students' self-learning and learning beyond the syllabus to gain and enhance their knowledge. 400 students have registered for various courses. 25 students recommended by the Principal are receiving ARIENT CSR scholarship. Ms. R. Muthalagu, of Electronics and Communication Engineering department is the Brand ambassador (SPOC - Single Point of Contact) of NPTEL of the college. Ms. S. Durga Devi of Computer Science and Engineering department mentored 'Introduction to Programming in C' course. Ms. V. Valarmathi of Information Technology department was mentor for 'Computer Architecture' course. Mr. T. Asborn of Electronics and Communication Engineering department taught 'Analog Circuits' course to the students. The course 'Manufacturing Technology' was mentored by Mr. V.S. Suresh of Mechanical Engineering department. Ms. K.S. Divya of Civil Engineering department taught 'Modern Construction Material' course.

Recognising the service rendered by the Principals and the cell, NPTEL felicitated the Principals, SPOCs and Mentors of colleges on 19.12.2015 at IIT, Madras.

7.3.2. Spoken Tutorial:

To promote the use of Open Source Software among the students community, Prathyusha has taken the initiative to conduct various workshops of Spoken Tutorial Project launched by IIT Bombay. Workshop on 'OSCAD' was conducted for the third year and workshop on 'Advanced C' was conducted for the second year students of Electronics and Communication Engineering department on 2.7.2015. 'Applied Chemistry/Chemistry Lab - Jmol Application'- software training was given to the students of Biotechnology department on 1.7.2015 and 14.7.2015.

7.3.3. Bridge Course:

The transition from schools to colleges is a bit tough on the freshers, especially those who skipped the "fundamentals". To ensure students know the basics before they begin the first year in Engineering, IN PEC 'Bridge Course' was taught in English, Mathematics and Physics subjects during the first 15 days in the first semester before the commencement of regular classes.

7.3.4. A-VIEW-Live Telecast Lectures:

Dr. A. Brintha Devi, Head, Department of English, has been selected for the second time also to deliver live lectures on HS6151 Technical English I for first year students in all Engineering colleges affiliated to Anna University through A-VIEW from Prathyusha Institute of Technology and Management from 14.9.2015 to 23.11.2015.

7.4. SAE India:

The SAE India Club at Prathyusha coordinated by the Mechanical Engineering Department puts encouraging efforts to the Mechanical Engineering students of our college to bring out their attitude, talent, skill and expertise in designing, calibrating and modelling mechanical equipment and industrial machinery by conducting various technical contests.

TIER I (Internal) event of SAEINDIA Student Convention 2015 was conducted on 20.7 2015 and 21.7.2015 and 103 students participated in 13 events namely Aero modelling, Modeling and Animation, Analysis, CAM, Business plan, Technical Paper, Auto Quiz, CNC Turning, CNC Milling, Manufacturing Technology Challenge, Mechanical Engineering Design CAD, Sheet Metal and Welding Contests. Out of this 48 students were qualified for the TIER II student convention 2015. (Photos)

300 students from 20 colleges participated in the TIER II event of SAEINDIA Student Convention 2015 on 29.8 2015. The events conducted drew and pinned up the attention of all the participants to the TIER II event. Apart from the competitions conducted in the first round, contests were held in CAE, Robotics, Mechatronics, Prototype Modelling, Plastic Die Engineering, Polymechanic and Automation also.

7.5. CRESE Academy:

CRESE Academy (Centre for Robotics & Embedded systems Excellence) arranges various Robotics programmes for our students which will be a lush pasture for their creativity.

7.5.1.Faculty Training:

Our faculty members attend training programmes every year so that they can train the students in turn. Dr. M. Moorthi from the Department of Electronics and Communication Engineering attended the training this year in the e-Yantra Robotics Meet. The training was given by Dr. Saraswathi Krithivasan, Senior Project Manager, e-Yantra, IIT Bombay on the topic 'e-Yantra: an overview Discussion of the model and modalities' at T.J.S. Engineering College, Chennai on 14.8.2015.

7.5.2. Students Training:

A Hands on Training in Robotics and Embedded system was given to 517 students from 20th to 25th June 2015 by our ECE Department faculty members Dr. M. Moorthi, Mr. Dilliraj, Mr. Ajin, Mrs.S. Inbalakshmi, and Mr. N. Nagaraj.

8.0 Research and Development:

8.1. Ongoing Research Projects:

The following funded Research Projects are going on in the year 2014-2015:
- Development of an Intelligent Diagnostic and Therapeutic Model for Dyslexia – ICMR
- RPS on Design and Development of low cost Wearable Antenna for Health Monitoring Systems - AICTE
- Solar Energy Assessment - AICTE
- Design Development of Decision Support System for Solar radiation Assessment – DRDO & CWET
- RPS-SEISMIC Strength Evaluation and Cost Effectives Strengthening Methods for Existing Masonry Structures in Chennai CITY(SEISMIC Hazard Zone III) – AICTE

- Design and Development of a Smart Wind-Solar Hybrid System with Integrated Dynamic Profile Adjustment for Complete Wind Spectrum Utilisation, Remote Monitoring and Integrated Self Diagnostics Systems - CWET
- Implementation of Animal House - Ministry of Environment and Forests, Govt. of India.

9.0. Placement and Training Programmes:

9.1. Training Programmes:

The Department of Placement, Training and Student Affairs is organizing various training programmes to enhance the employability and sustainability of our students.The Department organized a crash course in English under the aegis of Strides Consulting , Chennai. Training in Managerial Skills**,** Personality Development and Soft Skills inviting reputed trainers like Smart Training Resources India Pvt. Ltd., PHP Training Programme Ltd., Strides Consulting, Chennai and Corner Stone Soft Skills, Bangalore was given to three thousand and above students.

9.2. Placement Programmes:

The department has organized a number of On and Pooled Campus Recruitment Programmes during the year and reputed firms like IBM Ltd, Excelacom Technologies, Indium Software Technologies, Vuram Technologies Pvt. Ltd., Sutherland Global Services, Visionary RCM Infotech, Polaris Consulting and Services, Anglo Eastern Ship Management organized their respective On Campus Recruitment Drives and around 200 students have already been placed through these On Campus Placement Drives.

During the Academic Session 2015-2016, the Department has invited 10 corporate companies to conduct On Campus Recruitment Drive. Our students have been placed in 6 corporate through On and Off Campus Recruitment Drives.

Though a total of 437 students were eligible for placement, some of them opted to pursue higher studies and appear for other competitive examinations and thus a total of 145 students have been placed. Some more companies which include, Hinduja Global Solutions, Concentrix Technologies Pvt. Ltd., Fidu Asia, Sans Pareil, HTC Global Services India Pvt. Ltd., Data Pattern, AMI, Voltas Ltd, BGR Energy, Wipro Technologies, L&T Constructions, Dhyan networks & Technologies Pvt. Ltd., Scope International, S.L Lumax, Lucid Software, Petrofac, Congruent Solutions, Ionix Technologies, Solver Minds, Kumaran Systems, Hexaware Technologies, Idea2it, Quscient Technologies Pvt. Ltd., and etc are most likely to

visit this college for the Conduct of On Campus Recruitment Drive for the remaining 237 unplaced students hitherto.

9.3. Internship Programmes:

The Department of Training, Placement and Students Affairs has also arranged Internship Programmes for interested students during the year in various Government Organisations and industries. We are grateful to Tangedco (Tamilnadu Generation and Distribution Corporation Ltd.,) Caterpillar Pvt. Ltd., ECIL (Electronics Corporation of India Ltd) – ECIT Internship, Lucas TVS, Zoho, Gofrugal Technologies, India Japan Lighting Ltd., Ticket Goose, Digi Logic Systems Pvt. Ltd, Hindustan Coca Cola Breweries, National Instruments, Trident Tech Lab and Balaji Distilleries for their generous support in providing internship to our students.

ANNUAL REPORT 2016-17

Introduction:

In the name of the Almighty, who has been with us throughout this academic year, in successfully executing all our endeavours, I take the privilege of presenting the report for the year 2016-17 before this august gathering.

At the outset I deem it a pleasure to express my heartfelt greetings to all of you on this auspicious day. It is an ascertained fact that Prathyusha continues to grow in academic achievement which includes curricular and co-curricular activities, student strength, infrastructure, research and development, also has Industry –Institute Partnership with reputed Industries such IBM, Infosys, National Instruments, DELL, Oracle, CISCO Networking Academy, TVS-Haritha, ICT Academy and Govt Organisations such as National Institute of Wind Energy.

The highlights of our achievements during this academic year were two accreditations, NAAC with "A" Grade and the NBA accreditation status is awaited.

ACADEMICS

We are in 29th position out of 506 Engineering Colleges. About 375 students were admitted in UG courses and 20 students were admitted in PG courses during the academic year 2016-17 on 4th August 2016. I am proud to state that we have received 100% in 84 subjects and more than 95% in 86 subjects in the Anna

University May/ June 2017 Exams with an overall results of 84%. Miniprojects were introduced from 3rd Semester onwards

I wish to register at this moment that, 766 graduands will be graduating with 90% graduands today.

LIMELIGHT ACTIVITIES OF THE YEAR

This year was marked with many activities that this academic year 2016-17 can be called the most eventful year in the history of Prathyusha.

All the departments conducted symposia under the aegis of their respective associations which was an appropriate platform for knowledge exchange and there were more than 200 participants in each of the events, like circuit debugging, code debugging, paper presentation, quiz, etc.

During the academic year 2016-17, various activities were introduced to strengthen the Industry Institute Interaction like technical clubs by signing two MoUs in each Technical Club in this academic year. We have 56 Technical clubs effectively training 10% students in various core and software domains. These clubs would evolve as independent Placement Centres, actively providing internship, inplant training, Guest lectures, Industrial visits etc..

The students are exposed to recent trends in technologies by training them in Software and Hardware concepts in LabVIEW and being assured towards Internship and Placement.

To enhance the communication skills of the students, a communication contest " Prathyusha Talk Champ" –was introduced in association with ICT Academy. Many of the first year students emerged as winners of the State Level Contest.

As part of the quality programmes to bridge the curriculum gap, Guest Lectures were organized on recent trends and technologies in various streams of Engineering. These lectures were enriched by erudite professors and resourceful experts from various universities, Giant Companies, MNCs and Industries inside India and abroad.

 Knowledge was brought not only from outside into the college, but our students were taken outside to various industries for practical exposure. Industrial Visits to ISRO, IGCAR, Kalpakkam, BSNL, Doordarshan , AIR, Chennai Port Trust, Thermal Power Station, Ashok Leyland, Infosys Technologies, IBM, and so on were arranged for students of all departments.

During 2016-17 students were encouraged to participate in maximum number of Symposia in Paper presentations for which most of them received laurels.

The excitement of 2016-17 is that we had conducted the Alumni meet during which there was an excellent participation by around 1000 Alumni participated.

We also organized the Annual Culturals and Sports day for the students in a very unique manner that enabled the students to exhibit their skills and talents exclusively beyond the academia.

I am very proud to have implemented 100% Final Year Inhouse projects by the Final Year students which proved to be fruitful during their placement that raised to 90% until June 2017. In alignment with the Skill India initiative, 100 % inplant

training is provided to all the students in a phased manner during the Academic year 2017, as a part of which 120 students have undergone inplant training in reputed industries.

The International Conference AEEICB 2017 was organized by the departments of Electronics and Communication, Electrical and Electronics Engineering, Computer Science and Engineering and Information Technology on 27th and 28th February 2017. Selected papers were reviewed by experts and reviewers and were published in the IEEE Xplore. Other than the national level participants, there was a fair amount of participation from abroad also viz. from Egypt, Australia, Malaysia, Singapore, Srilanka, etc..

BEGINNING OF THIS ACADEMIC YEAR:

Each department has **technical clubs** of their own specializations, 15 software domain clubs and remaining 41 technical domain clubs, organizing Industry Expert Interactions with the members of these clubs.

In this direction we had active interaction with organizations like, Malles automated and robotics, Inov Robotics, Promoters of Environmental Technologies and Energy resources, SPR Consultants, Tesla Minds, Reliance Communication- 5G, Respo labs, TCS- IoT Incubation, Glosys,Sai Sathish, Indian Servers, Fore eye Apps, Scindia Software, Shankara Netralaya etc.

These Technical clubs aim to provide internship, Expert talks, Training and Recruitments for the students members that build them to be employable.

Internships have been provided as follows,

ECE - 31/168- MMM AutoElectronics, Kwality Photonics, Indian Telecom Industry Bangalore, Quantum dots, Tesla Minds, Innovative Engineering Minds, Reliance Communication, Thermal Power Plant etc.

EEE -25/74 – Honeywell Automation, Prolec GE, Wheels India, Voltech, Renault Nissan, Ashok Leyland etc.

BioTech-21/33, Mega Foods, Cavin Care, CLRI, Pfizars

Civil - 52/ 101   - Chennai Port Trust, Hitech Concrete Solutions, CMRL and WALFs Infra India Pvt. Ltd. Etc.

Mechanical - 77/104- Renault Nissan, Caterpillar, Schneider Electric etc., Ashok Leyland, Wheels India, Autotec Pvt. Ltd., Klite Industries, TI Metal forming, TI DC India, etc.

Industrial Visits were organized for the students by the respective departments to Kothari Petrochemicals, Retech, Celline point Pharmaceuticals, Medox BioTech, Bioklone, IBM, IGCAR,BSNL and many more organizations.

Memorandum of Understanding was signed with organizations in BioTech, Computer Science and Information Technology and Electronics and

Communication Engineering, to enrich the students with training, internship and recruitment.

- Ananya BioTech, Synkromax- Make in India – Launching of Product
- Glosys for Cloud Computing
- PentaMedia for Animation and Gaming
- Indian Servers Ltd. For Cyber Security and Ethical Hacking
- Reliance Communication for Antenna Design and Testing
- L&T for Embedded systems and Robotics

There has been active participation by students in National Level Contests like NDRF, Texas Instruments, ICT Innovation Challenge, CII Innovation Initiative, TNSCST, Canoe Competition and BITFUTURA

Students are encouraged to participate in National Level Symposia and students from Civil Engineering had won prizes in Technical Quiz and TowerIT. Students of Computer Science and Engineering were the finalists of Data Challenge organized by TCS

MILESTONES:

I deem it an honour to enumerate the most memorable milestones we have crossed successfully during this academic year.

I am proud to state the college has been recognized for its best practices and has received the " Best Practices Award in Industry Institute Interaction" by ICT Academy.

I am happy to announce here that Prathyusha Engineering College is continuously receiving awards from the IEEE- Professional body, for its most enthusiastic and active students branch. The college received the Best IEEE Student Branch 2017 Award, based on the activities conducted, and membership.

Partners in Success 2016 Award:

Tie-up with Infosys is a major factor contributing to the soft skills and language training to our students at various levels. The bond is strengthened by various activities hosted by our institution in co-ordination with Infosys based on which we have been recognised as Advanced Partner Institute in Campus Connect.

Placement and Training:

The Placements have been excellent this year, by placing students through On campus, off campus, Pooled campus which were organized almost throughout the year. Giant Companies like IBM GTS, Excelacom Technologies, HTC Global Services India (Pvt) Limited, Visionary RCM Infotech, Zifo R & D Solutions, Life Cell International, Ionixx Technologies, Eureka Forbes, CSS Corp Limited, Adhere Bond, Global Knowledge Networks, Pothigai Power, Zilogic Systems, Trident Tech Labs, Surya Informatics, Genpact, Vinayak Infotech, Nation Star

Mortgage, Harita TechServ Limited Capgemini etc. have recruited our students this year.

RESEARCH COLLABORATIONS

MOUS SIGNED

IBM- PEC has renewed its tie-up with IBM India Pvt. Ltd. for Training and Development for IBM career Education and certification courses, the outcome of which is recruitment of 51 students in IBM GTS

- **INFOSYS-** PEC has again entered into a tie-up with INFOSYS. The MOU for Campus Connect Programme has been renewed for next three years with Advanced Partner Status**.**

- **HARITA TECHSERV LTD-** Top Brain officials from Harita Techserv Ltd., Chennai audited PEC and based on the existence of core educational practices and fitness for conducting research activities, PEC is proud and privileged to be pursuing research in **"PRODUCT DESIGN, DEVELOPMENT AND MANUFACTURING TECHNOLOGIES"**

- Research has been undertaken in Solar Radiation Resource Assessment in association with National Institute of Wind Energy, who have selected our college among 121 SRRA, 4 AMS stations in India and the one and only Calibration Lab.

Research :

- Implementation of Animal House - Ministry of Environment and Forests, Govt. of India. Various Industry projects with National Informatics Centre have been undertaken by the students .

- A Research Project on " Arc Welding Robot" was completed in association with Combat Vehicle Research and Development Establishment, DRDO

Conclusion:

It is a proven fact that PEC is evolving into a magnificent institution for imparting full fledged technical knowledge to Engineering students. We are marching towards the close of this academic year with new visions, new destinations, new ventures and promising new pastures awaiting us round the corner for the next year. We are confident in achieving greater heights, since we believe

"Things work out best for those who make the best of how things work out."

John Wooden.

Thank you!

ANNUAL REPORT 2017-18

Distinguished Guests,

Mr. Somasundaram Jambunathan, Director- Digital Solutions, Capgemini,

Dr. C.K. Udhaya Sandron, Guinness Record Motivational Speaker, Life Skill Trainer,

Honourable Chairman Sir, CEO Madam, Respected Advisor Sir,

Dear parents, faculty and students,

With the blessings of the Almighty, who has been with us throughout this academic year, in successfully executing all our endeavor, I take the privilege of presenting the report for the year 2017-18 before this august gathering.

I feel proud to share the successful heights that Prathyusha has reached in academics, curricular and extra-curricular activities with the extensive contribution by the students and staff, supported with state-of-the-art infrastructure, research and development, self learning facilities, like NPTEL, MOOC etc., Industry –Institute Partnership with reputed Industries such IBM, Infosys, National Instruments, DELL, Oracle, CISCO Networking Academy, TVS- Haritha, ICT Academy and Govt Organisations such as National Institute of Wind Energy. The college is accredited by NAAC with A Grade and NBA for 3 years.

ACADEMICS

We have attained the 5th position out of 497 Anna University affiliated Engineering Colleges by achieving 85% pass percentage during the previous academic year.

LIMELIGHT ACTIVITIES OF THE YEAR

This year was blended with numerous activities,

All the departments conducted symposia under the aegis of their respective associations which was an appropriate platform for knowledge exchange and there were more than 200 participants in each of the events, like circuit debugging, code debugging, paper presentation, quiz, etc.

During the academic year 2017-18, around 425 activities were organized by 56 Technical Clubs to strengthen the Industry Institute Interaction. We have 56 Technical clubs effectively training all the students members in various core and software domains. These clubs would evolve as independent Placement Centres, actively providing internship, inplant training, Guest lectures, Industrial visits etc..

The students are exposed to recent trends in technologies by training them in Software and Hardware concepts in LabVIEW and being assured towards Internship and Placement.

MoUs have been signed with IBM for providing certifications in Advanced Software Foundation Course and the Advanced concepts in recent technologies that would aid the students during their Placements.

Industry Institute Interaction:

As part of the quality programmes to bridge the curriculum gap, Guest Lectures were organized on recent trends and technologies in various streams of Engineering. These lectures were enriched by erudite professors and resourceful experts from various universities, Giant Companies, MNCs and Industries inside India and abroad.

Knowledge was brought not only from outside into the college, but our students were taken outside to various industries for practical exposure. Industrial Visits to ISRO, IGCAR, Kalpakkam, BSNL, Doordarshan , AIR, Chennai Port Trust, Thermal Power Station, Ashok Leyland, Infosys Technologies, IBM, and so on were arranged for students of all departments.

Students are encouraged to participate in maximum number of Symposia in Paper presentations for which most of them received laurels.

Students Activities:

Every year Alumni meet is conducted to enable an interaction with them to understand their progress and for further students development .

We also organized the Annual Culturals and Sports day for the students in a very unique manner that enabled the students to exhibit their skills and talents exclusively beyond the academia.

I am very proud to have implemented 100% Final Year Inhouse projects by the Final Year students which proved to be fruitful during their placement that raised to 85% until June 2018. In alignment with the Skill India initiative, 100 % internship is arranged for all the students in a phased manner during the Academic year 2018.

The International Conference AEEICB 2018 was organized by the departments of Electronics and Communication, Electrical and Electronics Engineering, Computer Science and Engineering, BioTechnology and Information Technology on 27th and 28th February 2018. Selected papers were reviewed by experts and reviewers and will be published in the IEEE Xplore shortly. Other than the national level participants, there was a fair amount of participation from abroad also viz. from Singapore, Srilanka, Saudi Arabia and from all over the country .

Projects/ MiniProjects:

There has been active participation by students in National Level Contests like NDRF, Texas Instruments, ICT Innovation Challenge, CII Innovation Initiative, TNSCST, Canoe Competition and BITFUTURA

Students are encouraged to participate in National Level Symposia and students from Civil Engineering had won prizes in Technical Quiz and Hackathons.

- We received the third Best Digiguru award by ICT academy 2018

- Prathyusha won the Best Practices award by ICT Academy for the Students Engagement Model for the year 2018

- I am happy to announce here that Prathyusha Engineering College is continuously receiving awards from the IEEE- Professional body, for its most enthusiastic and active students branch. The college received the Best IEEE Student Branch 2017 Award, based on the activities conducted, and membership.

- AA certification by NPTEL for the Online certifications by students and staff.

Student's Awards:

- Our Civil engineering students has won the second prize in Concrete Challenge contest held at IIT Madras. 100 teams participated from various reputed engineering colleges and six were finalists out of which three were our teams.

- Ms. S.Hemamalini and Ms.Yuktha srinivasan from IIyr Bio Tech department has won First A- Best Paper Award for Paper Presentation on their project "Comparative study on production and optimization of Biogas by effective solid waste management".

- The Final Year students from the Electronics and Communication Engineering were the finalists of NI Yantra 2017 for the projects, Smart Trash Bin, Explosive Detection using Octocopter and were also recommended for Engineering Impact Award 2018, a National Instrument's Annual Technical Paper Contest.

- Mr. K.Balaji, Mr. S.Sree Sai , Mr.V.Ajith Krishna, Ms.A.Jyothisravanthi, Ms.S.Archana, were the team members who designed the Octocopter for Explosive Detection. The team has also participated in Tech and innovation fair at Shaastra 2018 at IIT-M.

- Mr. Balu Ashok received the Bronze medal at the 45th Design Contest organized by National Design Forum and Institution of Engineers(India) at Goa at its 16th Convention on 29th October 2017

- Three Batches of students won cash prizes worth Rs.30,000/- at the Project Expo at Manakula Vinayaka Institute of Technology, on 28th February 2018.

- The Final Year students of Electrical and Electronics Engineering department brought laurels to the organization by securing the first place in the HWHackathon.18.1 contest which was organized by Forge Factory, Coimbatore for their product titled "Avant Grade E Bike", The event was a 56 hours nonstop hackathon on 9th February, requiring the participants to design the E-Bike according to the required specifications mentioned in the hackathon. It was a proud moment for the students to compete among 35 shortlisted teams all over the State and win the first place to receive a grant of Rs.5,00,000/- by Mr.Vish Subramanian, Founder and CEO, Forge, towards training and building a sustainable start up and a free training offered at Protosem MI worth Rs.75,000/- for each student.

- Students of Mechanical Engineering won a cash award of Rs.30,000 as the topper among 500 teams all over the country by participating in the India Design Week 2017 and the Hackathon organized by ICT Academy

- Two Mechanical Engineering Projects, Multipurpose Robotic Arm and Wash Clothes and Burn Calories were selected for exhibition at the venue from 21st to 24th February 2018, Science City.

There is also an exclusive Technical Project Expo held for the students to exhibit their Projects where they will be awarded with attractive cash awards.

Placement and Training:

The Placements have been excellent this year, by placing students through On campus, off campus, Pooled campus which were organized almost throughout the year. Giant Companies like IBM GBS, Excelacom Technologies, American Megatrends, Object Frontier, HTC Global Services India (Pvt) Limited, RGS Constructions, Visionary RCM Infotech, Mbit Wireless Technologies, Zifo R & D Solutions, Omics Technologies, Life Cell International, Ionixx Technologies, Eureka Forbes, CSS Corp Limited, Adhere Bond, NFN Labs, Whirldata, Global Knowledge Networks, Pothigai Power, Zilogic Systems, Trident Tech Labs, Surya Informatics, Genpact, Vinayak Infotech, Nation Star Mortgage, Harita TechServ Limited, Capgemini etc. have recruited our students.

Students are trained from the First year onwards to enhance their Communication Skills, Aptitude Skills and Soft Skills that would build

them into full fledged employable graduands to face Campus interviews with confidence.

Career Guidance Programmes:

Career Guidance Programmes are organized for students to pursue their Higher Education abroad through interaction sessions with various Eminent resource persons.

GATE/UPSC coaching is arranged at the campus for students interested in Higher Education in India and Administrative Services respectively.

CSR activities:

We have received funded with Rs.25 lakhs by DST and the Government of India for the conduct of PMKVY TI for vocational students.

The students are encouraged to join hands in the Swachch Bharath initiative to ensure a green campus by avoiding usage of plastic, garbage littering. Afforestation is encouraged by planting more trees and samplings in association with the National Service Scheme Team of students.

The NSS team also has adopted nearby villages and has enabled the residents to be self employable. They also provide educational assistance to the school students during their examinations.

Scholarship:

The Management is happy to offer every year the Academic Merit Scholarship named after the father of our Honourable Chairman Sir, "Sri Sivaramayya Academic Merit Scholarship" for students achieving 8.5 and above CGPA. This year we are awarding 97 students with a cash awards worth Rs.2,30,000/- with these awards.

Conclusion:

It is a proven fact that PEC is evolving into a magnificent institution for imparting full fledged technical knowledge to Engineering students. We are marching towards a new academic year with new visions, new destinations, new ventures and promising new pastures awaiting us round the corner this year. We are confident in achieving greater heights, since we believe

"Greatest Acheivers are the ones who merrily keep jumping from one target to another, they have fun, they accept challenges, they motivate others, they fight, THEY ROCK."

Thank you!

ANNUAL REPORT 2018-19

Distinguished Guests,

Hon'ble Justice, Thiru.K. Venkataraman, Judge, High Court, Madras, Hob'ble. Dr.Prof. R. Thandavan, Former Vice Chancellor, University of Madras, Chennai, Honourable Chairman Sir, CEO Madam, Respected Advisor Sir,

Dear parents, faculty and my dear graduands,

With the blessings of the Almighty, who has been with us throughout this academic year, in successfully executing all our endeavor, I take the privilege of presenting the report for the year 2018-19 before this august gathering.

I feel proud to share the successful heights that Prathyusha has reached in academics, curricular and extra-curricular activities with the extensive contribution by the students and staff, supported with state-of-the-art infrastructure, research and development, self learning facilities, like NPTEL, MOOC etc., Industry –Institute Partnership with reputed Industries such IBM, Infosys, National Instruments, DELL, Oracle, CISCO Networking Academy, TVS- Haritha, ICT Academy, Tesla Minds, Caterpillar and Govt Organisations such as National Institute of Wind Energy. The college is accredited by NAAC with A Grade and NBA for 3 years.

ACADEMICS

This year, I am happy to announce that 579 graduands would be receiving their degrees. We have attained the 10th position out of 497 Anna University affiliated Engineering Colleges by achieving 85% pass percentage during the previous academic year 2018-19. We have achieved 6 University Ranks.

LIMELIGHT ACTIVITIES OF THE YEAR

This year was blended with numerous activities,

Industry Institute Interaction:

During the academic year 2018-19, around 300 activities were organized by 56 Technical Clubs to strengthen the Industry Institute Interaction. We have 56 Technical clubs effectively training all the students members in various core and software domains. These clubs are functioning as independent Placement Centres, actively providing internship, inplant training, Industry Expert Interactions, Industrial visits etc.. As part of the quality programmes to bridge the curriculum gap, Lectures were organized on recent trends and technologies in various streams of Engineering. These lectures were enriched by erudite professors and resourceful experts from various universities, Giant Companies, MNCs and Industries inside India and abroad.

The students are exposed to recent trends in technologies by training them in Software and Hardware integration in LabVIEW and being assured Internship and Placement. TVS Haritha Tech Serv Ltd. has collaborated with the organization by training the students in 3D modeling using CATIA and DELMIA, providing them internship and placements.

MoUs have been signed with IBM for providing certifications in Advanced Software Foundation Course supporting the students during their Placements.

Industrial Visits:

Knowledge was not only flushed into the college, but our students were exposed to various industries through Industrial Visits to ISRO, IGCAR, Kalpakkam, BSNL, Doordarshan , AIR, Chennai Port Trust, Thermal Power Station, Ashok Leyland, Infosys Technologies, IBM, and so on were arranged for students of all departments.

Students are encouraged to participate in maximum number of Intercollegiate Symposia in Paper presentations for which most of them received laurels.

Students Activities:

Every year Alumni meet is conducted to enable an interaction with them to understand their progress and for the career development of the students.

We also organized the Annual Culturals and Sports day for the students in a very unique manner that enabled the students to exhibit their skills and talents exclusively beyond the academia.

I am very proud to have implemented 100% Final Year Inhouse projects by the Final Year students which proved to be fruitful during their placement that raised to 92% until June 2019. In alignment with the Skill India initiative, 100 % internship is arranged for all the students in a phased manner during the Academic year 2018-2019.

Projects/ MiniProjects:

There has been active participation by students in National Level Contests like NDRF, Texas Instruments, ICT Innovation Challenge, CII Innovation Initiative, TNSCST, Canoe Competition, BITFUTURA and Smart India Hackathon.

Students are encouraged to participate in National Level Symposia and students from Civil Engineering had won prizes in Technical Quiz and Hackathons.

Students acheivements:

- We received the Best Entrepreneurship award for AR /VR by Shrishti 2018.

- 28 International Certifications by National Instruments during the academic year 2018-19

- We also won the Best Innovative Award for Smart Surveillance system for Gated Community by Shrishti 2018

- Students bagged the first prize for their Mobile App at Manakula Institute of Technology

- Artificial Eye Assisted Navigational Aid has been awarded third prize at Anna University, Chennai during Technology Exhibition and was also demonstrated on Doordarshan in Ariviyal Paarvai Programme and Vasanth TV.

- I feel proud to announce that an alumni of 2013 batch has emerged successfully as an IPS officer.

- I am happy to announce here that Prathyusha Engineering College is continuously receiving awards from the IEEE- Professional body, for its most enthusiastic and active students branch. The college received the Best IEEE Student Branch 2018 Award, based on the

- ___ certification by NPTEL for the _____Online certifications by students and staff.

- An Open House Project Expo was organized in association with IEEE Societies and ECE Technical Clubs for students from other Engineering Colleges.

- One Batch of students have been shortlisted for the Grand Finale at Smart India Hackathon 2019 for their project title " Telepicking Robot" guided by Mr. Gopinath.

There is also an exclusive Technical Project Expo held for the students to exhibit their Projects where they will be awarded with attractive cash awards.

Placement and Training:

Our Chairman has always had a vision of placing all students graduating from their courses including students with arrears. Though the current scenario all over the state is that there is an average of 40% placements happening, strenuous efforts have been taken to place all the students irrespective of their arrears in appropriate companies. The Placements have been excellent this year, by placing students through On campus, off campus, Pooled campus which were organized almost throughout the year. Giant Companies like IBM GBS, IBM GTS, Excelacom

Technologies, American Megatrends, Object Frontier, HTC Global Services India (Pvt) Limited, RGS Constructions, Visionary RCM Infotech, Mbit Wireless Technologies, Zifo R & D Solutions, Omics Technologies, Life Cell International, Ionixx Technologies, Eureka Forbes, CSS Corp Limited, Adhere Bond, NFN Labs, Whirldata, Global Knowledge Networks, Pothigai Power, Zilogic Systems, Trident Tech Labs, Surya Informatics, Genpact, Vinayak Infotech, Nation Star Mortgage, Harita TechServ Limited, Capgemini, ATS Technologies etc. have recruited our students.

Students are trained from the First year onwards to enhance their Communication Skills, Aptitude Skills and Soft Skills that would build them into full fledged employable graduands to face Campus interviews with confidence.

Career Guidance Programmes:

Career Guidance Programmes are organized for students to pursue their Higher Education abroad through interaction sessions with various Eminent resource persons.

GATE/UPSC coaching is arranged at the campus for students interested in Higher Education in India and Administrative Services respectively.

CSR activities:

Students are encouraged to conduct awareness programmes on abolition of Plastic to villages in and around Chennai.

We have trained 300 school dropout youth as part of initiative of DST and the Government of India for the conduct of PMKVY TI for vocational students.

The students are encouraged to join hands in the Swachch Bharath initiative to ensure a green campus by avoiding usage of plastic, garbage littering. Afforestation is encouraged by planting more trees and samplings in association with the National Service Scheme Team of students.

The NSS team also has adopted nearby villages and has enabled the residents to be self employable. They also provide educational assistance to the school students during their examinations.

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The Management is happy to offer every year the Academic Merit Scholarship named after the father of our Honourable Chairman Sir, "Sri Sivaramayya Academic Merit Scholarship" for students achieving 8.5 and above CGPA. This year we are awarding 97 students with a cash awards worth Rs.11,00,000/- with these awards.

Conclusion:

It is a proven fact that PEC is evolving into a magnanimous institution for imparting full-fledged technical knowledge to Engineering students and exposing them to a career oriented environment with the support of the Management, staff, students, alumni and parents.

Prathyusha strives to elevate the educational standards of students on par with global standards and has always attempted with innovative approaches.

This year we are applying for autonomous status for such upgradations.

Arise, Awake and Stop not till your goal is reached- Swami Vivekananda.

Thank you!

Principal's Address:

Honourable Chairman Sir, Vice Chairman Sir, Advisor, CEO madam, Director, Placement, dear students and their parents, a very good morning and a warm welcome to our Prathyusha family.

I am privileged to welcome the gathering on this auspicious day which is the most important event of every year expected by the parents, students and us.

Prathyusha always strives to hone the skills of students to ensure their employability within their course of study.

During 2019-20, there were numerous initiatives towards skill development of students inspite of COVID -19 since March 2020.

We have signed MoUs with Industries like National Instruments, Harita Tech Serv Pvt. Ltd., National Institute of Wind Energy, Tesla Minds, Infosys Campus Connect, DELL, Glosys Technologies, Synchromax, ICT Academy etc. to bridge the gap between Industry and Academia to strengthen the Industry Institute Interaction. We also have 56 technical clubs closely working with relevant

Core, IT and ITES industries offering value added courses, training, hands-on-workshops, Industrial visits, Internships and Placements.

Students are made to exhibit their leadership and teamwork skills through the organization of Technical Symposia, Conferences and EDC stalls. We accelerate the learning process through different pedagogies such as Activity Based Learning and Project Based Learning where students are the ambassadors who organise various co-curricular programmes. We also have a strong faculty mentoring system which elevates every student to achieve success in their career. Our alumni networking is very strong and they recommend our students towards internship, higher studies and placements within India and abroad.

They are also trained regularly by including within their curriculum, with Soft Skills, Industry based Aptitude and Technical Tests to strengthen their Interview skills. Students are also encouraged to fulfill their career dreams by participating in Company based contests such as TCS Ninja, TCS NQT and Infosys InfyTQ to exhibit their technical strength.

Students are made to upgrade their knowledge on par with global standards by undertaking Online certifications, NPTEL certifications with **2550 registrations, 1826 certifications, 573 Elite Certifications, 16 Elite Gold** and CLAD/CLD LabVIEW certifications.

They are equipped with technical knowledge through execution of Miniprojects and inhouse Projects. Students have emerged as finalists of Smart India Hackathon 2020 in both Hardware and Software editions. We have associated with AICTE in the establishment of Innovation cell at our college where students are mentored and trained to start their projects and end up as start ups.

I feel proud to announce that we have achieved the top 20 positions in ARIIA, received Accolades during New India Learnathon 2020 by ICT academy, Best IEEE Students Chapter Award, INSPIRE award by Infosys Campus Connect, NPTEL AA+ Certificate by IITM etc and have been rated as among the top 20 by Times of India. We have eminent and well qualified faculty who have 15 published patents, 100 publications and around 50 lakhs of research grants from AICTE, ATAL and DST every year.

We have around 85% placements of students who had passed out during 2020 who have received offer letters from giant IT companies such as TCS, CTS, HCL, Wipro, Infosys. Students are also encouraged to take up GATE/GRE/ TOEFL exams towards their higher studies and also Government based exams such as UPSC and IES.

Or beloved Chairman has instituted Sri Sivaramayya Merit Scholarships every year for meritorious students who achieve CGPA of 8.5 and above last year with around Rs. 50 lakhs. University Rank Holders are also awarded cash prizes during Graduation Day every year.

During the ensuing year we have planned for more activities that would motivate the students towards a more ICT based learning process and would elevate the students to greater heights.

"The only limit to the height of your achievements is the reach of your dreams and your willingness to work for them."– Michelle Obama

I again welcome one and all present here and wish all the students great success in their future endeavours with the magnanimous support of the parents.

Thank You.