



SIGNALS

A Half Yearly News Letter

Department of Electronics And Communication Engineering

PVP Siddhartha Institute of Technology

Autonomous & Permanent Affiliation to JNTUK, Kakinada

AICTE Approved, NBA Accredited and ISO 9001: 2008 certified Institution

(Sponsored by Siddhartha Academy of General and Technical Education)

Kanuru, Vijayawada- 520 0007

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JULY : 2016

Faculty Incharge:
Mrs. D. Hareesha

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Quotation:

“Success is a vehicle, which moves on a wheel name hard work, but the journey is impossible without the fuel named self-confidence”

-- Dr. A.P.J. Abdul Kalam

Workshops, Guest Lectures & Seminars Conducted:

- i. A Two day National Convention was conducted on “**Recent Advances in Microwaves Antennas & Communications**” on 1st July, 2016 & 2nd July, 2016.

Resource persons:

1. Mr. M. Balachary, Scientist-G, DLRL, Hyderabad.
2. Dr. G. Sasibhushana Rao, Professor, Dept. of ECE, Andhra University College of Engg., Vizag.
3. Dr. J. Srihari Rao, Former Professor, Dept. of ECE, NIT, Warangal.
4. Dr. P.V.D. Soma Sekara Rao, Professor, Dept. of ECE, JNTUH, Hyderabad, Telangana.
5. Mr. T. Varun, Staff Application Solution Engineer, N.I.





ii. Under IETE Forum **“Skill Development Activity”** was organized for IV B.Tech from 5th July, 2016 to 20th July, 2016.

iii. One day Training Programme was conducted on **“Real Time Image Processing on Compact RIO – FPGA”** by National Instruments on 4th August, 2016.

Resource Person:

Mr Vasanth, VI Systems, Bangalore.

- iv. A seminar was delivered on **“Use of Bloom’s Taxonomy in Teaching, Learning & Assessment”** on 6th August, 2016 in R & D Center., Dept. of ECE, PVPSIT.

Resource Person: Dr. K. Ramanjaneyulu, Professor.

- v. Awareness Programme was conducted on **“Aadhaar Enabled Bio-Matric Attendance System”** for all affiliated colleges under JNTUK (Krishna, Guntur, Prakasam, Ongole) on 12th September, 2016 on behalf of JNTUK.

- vi. **Engineers’ Day** was celebrated on 15th September, 2016 and conducted a paper Contest, Technical Quiz and Project Expo under IETE Students’ forum.

Paper Contest:

Coordinator: Mrs K.Anitha, Associate Professor

Members: Mrs. K.Aruna Kumari, Sr Assistant Professor

Ms. T.Sushma, Assistant Professor

Judges: Dr. Praveen Naidu Vummadisetty, Associate Professor, VRSEC.

The following students are winners for Paper Presentation:

Sl. No.	Regd. No.	Name of the students	Position
1.	15501A0472 15501A0482	Ms. N. Ratna Mythili Mr. P.M. Gowri	I
2.	15501A04A5 15501A0461	Ms. G.V. Ektha Ms. M. Abhashilya	II

Technical Quiz:

Coordinator: Mr. M.Srinivasa Rao, Associate Professor

Member: Mrs. V.S.D. Rekha, Assistant Professor

Mrs.D.Praveena Bai, Assistant Professor

Ms.M. Lahari Ratnanjali, Lab Technician

Judges: Dr. Praveen Naidu Vummadisetty, Associate Professor, VRSEC.



The following students are winners for Technical Quiz:

Sl. No.	Regd. No.	Name of the students	Position
1.	14501A0431 15501A0426	Mr. G. Vedapani Mr. E. Phaneendra Kumar	I
2.	14501A0416 15501A0428	Mr. D. Bharath Mr. G. Vijay Kumar	II

Project Expo:

Coordinator: Dr. T.Haritha, Associate Professor

Members: Dr.Y.Rama Krishna, Associate Professor

Judges: Dr. Praveen Naidu Vummadisetty, Associate Professor, VRSEC.

Sl. No.	Regd. No.	Name of the students	Position
1.	15501A0457 16505A0401 16505A0401	P.Maneesha A.Tabassum Sultana G.Janaki	I
2.	15501A0462 15501A04A8 15501A045B2	M.R.K.Siva Naga Sai V.Charan Teja V.Bhargav Kumar	II



Circuit Bug Identification:

Coordinator: Mr.N.S.S.Ganesh, Assistant Professor

Member: Ms. Ch.Srilakshmi, Assistant Professor

The following students are winners for Bug Identification:

Sl. No.	Regd. No.	Name of the students	Position
1.	14501A04B2 15505A0424	Mr. B. Sai Krishna Y. Sandeep	I
2.	15501A0438 15501A0423	K. Sai Rishyanth Mr. D.N. Subramanyam	II
3.	15505A0401 15505A0403	Ms. A. Deepika Ms. B. Priyanka	III

vii. A guest lecture was conducted on **“Introduction to Photo Acoustic Imaging”** on 27th October, 2016.

Resource Person:

Ms. Gutta Sridevi,

Alumni, Ph.D. Scholar at IISC., Bangalore.

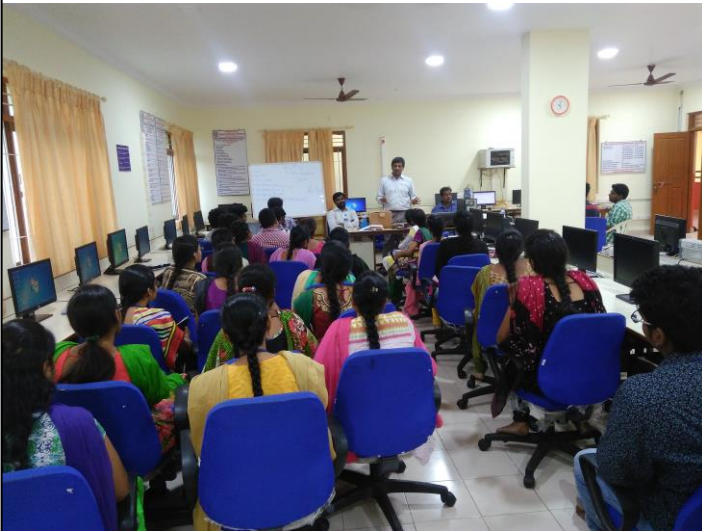


viii. A Two day Expert talk was organized on **“LabVIEW-Robotics”** for III B.Tech. students and Faculty on 28th October, 2016 & 29th October, 2016.

Resource Person:

Mr Mani Maran,

Sr.Application Engineer, VI Solutions, Bangalore.



ix. A Workshop was conducted on **“PCB Design”** for the students of Government Polytechnique College from 9th November, 2016 to 15th November, 2016.

Faculty Incharges: Mr. N.S.S Ganesh, Assistant Professor

Mrs. B. Swathi Lakshmi, Assistant Professor

Mrs. D. Swathi, Assistant Professor

- x. A Three day school connect program was organized on semiconductor physics for Narayana school students 27 members from 3rd November 2016 to 5th November, 2016 under IETE Student's Forum.

Faculty Co-ordinator: Dr. T. Haritha, Associate Professor

Faculty In-charges: 1) Mr. B. Surya Prasada Rao, Assistant Professor

2) Mrs. B. Swathi Lakshmi, Assistant Professor

3) Mrs. V. Ratna Kumari, Assistant Professor



- ix. A one day training program was conducted on **“Electronic Test and Measurement Equipment”** for Technicians of different Engineering colleges of Krishna and Guntur districts on 11th November, 2016 under IQAC.

Resource Persons:

- 1.Mr.Madhusudhan Reddy, Application Engineer, Synergy Technologies.
- 2.Mr. K.Pavan Kumar, Manager, Synergy Technologies.
- 3.Mr.A.Sravan Kumar, Marketing Executive, Synergy Technologies.



- x. **Mrs. Ramya**, Regd. No: 08505A0404 (2007-2011) alumni student interacted with II Year students and explained about the **“Importance of Embedded C”** on 12th December, 2016. She is working as a Sr. Software Engineer in Robert BOSCH.
- xi. Department is offering **Skill Development Training** to unemployed youth with a batch of 25 students (for around 200 hours) in **“Electronics & Hardware”** under **Pradhan Mantri Kaushal Vikas Yojana (PMKVY)** scheme sponsored by AICTE from December 2016 to September 2017.

2. Workshops/Seminars/Conferences/Faculty Development Programs attended by the

faculty:

- i. **Mr. P. Venu Madhav**, Assistant Professor attended a Two day national level workshop on **“Design of Control System Using MATLAB”** on 29th and 30th, July 2016 at KKR & KITs, Guntur.
- ii. **Dr. K. Ramanjaneyulu**, Professor attended a two day Hands on Training on **“Image Processing Algorithms and Advanced Intelligent Optimization Techniques”** conducted by dept. of ECE in association with IIP Cell on 29th July, 2016 & 30th July, 2016 at Kongu Engg. College, Perundhurai.
- iii. **Mrs. A. Geetha Devi**, Associate Professor, **Ms. Ch. Sri Lakshmi**, Assistant Professor participated in A two day workshop on “Mind Camp” IYF at college level on 26th August, 2016 & 27th August, 2016.
- iv. **Mr. N.S.S. Ganesh**, Assistant Professor attended one week workshop on **“Analog Digital and Mixed signal VLSI Design”** at IIT, Kharagpur on the name of “ISTE STTP on CMOS, during 19th September, 2016 to 23rd September, 2016.
- v. **Mr. N.S.S. Ganesh**, Assistant Professor attended a two day National Convention on **“IOT”** on 24th October, 2016 & 25th October, 2016 organized by Institution of Engineers at Andhra Pradesh State Center, Dr.KLRaoBhavan, Vijayawada.
- vi. **Dr. K. Ramanjaneyulu**, Professor attended a National Seminar on **“IOT”** at Fortune Murali Park, Vijayawada on 24th October, 2016 Organized by IETE AP State Center.
- vii. **Mrs. B.V. Subbayamma**, Assistant Professor attended a one day training programme on **“Effective Teaching”** organized by P.B, Siddartha Arts College, Vijayawada on 24th October, 2016.
- viii. **Mrs. D. Hareesha**, Assistant Professor & **Mrs. B. Swati Lakshmi**, Assistant Professor attended a two day workshop on **“Comprehensive Sensing and Applications”** on 25th , 26th & 27th October, 2016 organized by Indian Institute of Technology, Hyderabad.

- ix.** The following faculty members attended a five day workshop on **“IOT Applications”** conducted by department IT PVSIT in association with NIT Warangal.
- 1) **Mrs. K. Aruna Kumari**, Sr. Assistant Professor
 - 2) **Mrs. V.S.D. Rekha**, Assistant Professor
 - 3) **Mrs. L. Madhavi Devi**, Assistant Professor
 - 4) **Ms. Ch. Sri Lakshmi**, Assistant Professor
 - 5) **Mrs. D. Swathi**, Assistant Professor
- x.** **Mr. B. Vinod Naik**, Assistant Professor, **Mr. M. Lokesh** of III B.Tech. ECE attended 12th FICCI Higher Education Summit, 2016 New Delhi to display and demonstrate **“IOT based portable Health Monitoring System”** for three days 10th - 12th November, 2016.
- xi.** **Mr. Md. Habibulla**, Sr. Assistant Professor attended Orientation workshop for AICTE selected institutions related to **“Pradhan Mantri Kaushal Vikas Yojana (PMKVY)”** at JNTUH, Hyderabad on 19th November, 2016.
- xii.** **Dr. K. Ramanjaneyulu**, Professor attended a National Level Conference on **“The Role of IQAC in improving Quality of Teaching and Learning Process”** at Sacred Heart College, Tirupattur on 4th & 5th November, 2016.
- xiii.** **Mrs. K. Anitha**, Associate Professor received “A” Grade for On line certification course on **“Signals & Systems”** (EE210X) conducted by IIT, Bombay, from 26th July, 2016 to 16th November, 2016.
- xiv.** The following faculty members attended a 2 day workshop on **“LINUX ADMINISTRATION”** held on 8th & 9th of Dec. 2016 organised by Dept of CSE,IT & MCA in Association with IQAC at PVPSIT, Vijayawada.
1. **Dr. Ch. Gangadhar**, Associate Professor,
 2. **Mr. Md. Habibulla** Sr. Assistant Professor
 3. **Mr. K.P.R.Krishna**, Assistant Professor
 4. **Mr. G. Rambabu**, Embedded Engineer
 5. **Mrs. D. Hima Bindu**, Lab Technician
 6. **Mrs. K. Vijaya Lakshmi**, Lab Technician
 7. **Ms. M. Lahari Ratnanjali**, Lab Technician
 8. **Mr. P. Koteswara Rao**, Lab Technician
 9. **Mr. V. Bharath Kumar**, Lab Technician

3. Publications by the faculty (National/International Journals/ Conferences):

- i. **Dr C.Subba Rao**, Professor published a paper entitled **“Design of Low Profile Spiral antenna with Electromagnetic Band Gap Structure”** Proceedings of National Convention on Recent Advances in Microwaves, Antennas and Communications 1st -2nd July 2016, Organized by PVPSIT and The Institution of Engineers India, PP:33-37.
- ii. **Mr. J. Ravindra Babu**, Associate Professor, **Mrs D.Swati**, Assistant Professor published a paper entitled **“Performance Analysis of Adaptive MMSE in DS-CDMA Systems”** Proceedings of National Convention on Recent Advances in Microwaves, Antennas and Communications 1st -2nd July 2016, Organized by PVPSIT and The Institution of Engineers India.
- iii. **Dr C.Subba Rao**, Professor et.al presented a paper entitled **“Design of line source Antennas for the Generation of shaped beams without side lobes and Ripples”** in International Journal of Electronics, Electrical and Computational System, vol:5 Issue:8, PP:1-5, August 2016.
- iv. **Mrs. K. Anitha**, Associate Professor published a paper entitled **“A Novel very low complexity asymmetric relay selection and Association for multi user multi relay MIMO uplink”** in International Journal for modern trends in Science and Technology, Volume: 2, special issue: 1, October 2016, PP:150-156.
- v. **Ms. T. Sushma**, Assistant Professor participated and presented a paper entitled **“Memory Efficient SCAN de-coder of polar codes”** in International Journal of Scientific Engineering and Technology research during October 2016, Vol. No:05, Issue No:38.
- vi. **Mr. P. Venu Madhav**, Assistant Professor attended a National Conference on **“Advances in Communication and Electronics Engineering – 2016”** and presented a paper on **“E-shape top loaded octagonal patch antenna for small frequency applications”** organized by NIT Warangal on 21st October, 2016 & 22nd October, 2016.
- vii. **Dr. A. Geetha Devi**, Associate Professor published a paper entitled **“Image Resolution and Contrast Enhancement using Wavelet Transforms and Contrast limited Adaptive Histogram Equalisation”** in International Journal of Computer Science and Information Security (IJCSIS) Vol.14, No:10, October, 2016.

- viii. **Dr. T. Haritha**, Associate Professor published a paper entitled **“Mitigation of Synchronization Errors in OFDM system under frequency selective fading channels”** in International Journal of Scientific Engineering and Technology Research ISSN 2319-8885, Vol.5, Issue:38, PP:7938-7941 during October, 2016.
- ix. **Dr. K. Ramanjaneyulu**, Professor and **Ms. B.Usha Rani**, II M.Tech student presented and published a paper entitled **“Differential Space Time Frequency coding for MB-OFDM System”** in the Second International Conference on Aerospace Electronics Electrical, Communication and Instrumentation (ASECI-2016) held on 22nd and 23rd October, 2016. ISBN No:978-81-923295-2-9 organised by VRSEC Vijayawada.
- x. **Mrs.K.Aruna Kumari**, Sr. Assistant Professor, **Ms.Ch.SriLakshmi**, Assistant Professor and **Ms. M.Neelima**, II M.Tech student presented and published a paper entitled **“Improved Response of Genetic Simulated Annealing Algorithm for PAPR Reduction in OFDM System Using PTS Technique”** in the Second International Conference on Aerospace Electronics Electrical, Communication and Instrumentation (ASECI-2016) held on 22nd and 23rd October, 2016. ISBN No: 978-81-923295-2-9 organised by VRSEC Vijayawada.
- xi. **Dr. A. Geetha Devi**, Associate Professor published a paper entitled **“Image Enhancement Technique using Lifting and Stationary Wavelet Transforms and Contrast limited Adaptive Histogram Equalisation”** in International Conference health, safety, fire environment, allied sciences Engineering conducted at Dehradun (Uttarakhand) on 18-19 November, 2016 (Springer Conference) (Indexed by Scopus).
- xii. **Dr. A. Geetha Devi**, Associate Professor and **Mr. B. Surya Prasada Rao**, Associate Professor published a paper entitled **“An effective method of Denoising of 2-D data using Adaptive kernel Bilateral filter”** in International Journal of scientific Engineering Research (IJSER) Vol.7, Issue-11, November, 2016.
- xiii. **Mr. M. Srinivasa Rao**, Associate Professor published a paper entitled **“Robust Data Transmission using Turbo coded OFDM for LTE mobile system”** in International Journal of Scientific Engineering & Technology Research. ISSN No: 2319-8885, Issue: 43, Vol:5, PP:8953-8956.
- xiv. **Dr. K. Ramanjaneyulu**, Professor published a paper entitled **“Design of cascaded Hybrid Interleaver for Fast Turbo Coding and Decoding”** in Proc. Of Third International Conference on Computer & Communication Technologies (IC3T-2016) held on 28th & 29th October, 2016 at MIC College of Technology, Vijayawada. Published in Springer Advances in Intelligent Systems and Computing (AISC) series and Lecture Notes in Networks and Systems Series (LNNS).

- xv. **Mr.Md. Habibulla**, Sr.Assistant Professor Published a paper entitled “**Improvement of Leach Protocol Using K-Angle Optimization in Wireless Networks**” in the International Journal of Engineering in Advanced Research Science & Technology (IJEARST) during Dec- ISSN 2278-2566.

4. Faculty Achievements (Higher Qualification awarded, guest lectures given, awards and rewards, acted as a Judge or Resource person etc.):

Faculty acted as Judges/Resource Persons:

- i. **Dr. P. Rajesh Kumar**, Professor & HOD and **Mr. N.S.S.Ganesh**, Assistant Professor went to VVIT on 24th July, 2016 to deliver guest lecture.
- ii. **Dr. P. Rajesh Kumar**, Professor &HOD, Received Provisional Patent for “**VLSI Architecture for Robot Navigation in Semi Structured Indoor Environment**”; September – 2016.
- iii. **Dr. T. Haritha**, Associate Professor acted as a Co-ordinator for AICTE – CII survey of Industry linked Technical Institutes 2016.
- iv. **Dr. K. Ramanjaneyulu**, Professor delivered a seminar on “**Use of Bloom’s Taxonomy in Teaching, Learning & Assessment**” on 6th August, 2016 in R & D Center., Dept. of ECE, PVPSIT.
- v. **Mr. B. Vinod Naik**, Assistant Professor attended **Code NI CLAD Exam** and got certified on 15th September 2016.
- vi. **Mr. M. Srinivasa Rao**, Associate Professor acted as Judge for Technical events at Layola College of Engineering on 24th September, 2016 for National Technical Symposium.
- vii. **Dr. P. Rajesh Kumar**, Professor & HOD delivered a guest lecture on “**Embedded Systems**” at Chalapathi Engineering College, Guntur on 04th October, 2016.
- viii. **Dr. Y. Rama Krishna**, Associate Professor delivered expert talk on “**Smart Antennas for Mobile Communications**” at Chalapathi Engineering College, Guntur on 05th October, 2016.

- ix. **Mrs.V.Ratna Kumari**, Assistant Professor delivered expert talk on “**Distance Measures for Pattern Recognition**” at Chalapathi Engineering College, Guntur on 05th October, 2016.
- x. **Dr. K. Ramanjaneyulu**, Professor attended as a chief guest for IETE Student’s forum inaugural program at Chalapathi Engineering College, Guntur on 29th October, 2016.
- xi. **Mrs. K. Anitha**, Associate Professor acted as a teacher to II & III ECE students for the On line certification course on “**Signals & Systems (EE210X)**” conducted by IIT, Bombay, from 26th July, 2016 to 14th November, 2016.
- xii. **Mrs. K. Anitha**, Associate Professor earned “A” Grade for On line certification course on “**Signals & Systems (EE210X)**” conducted by IIT, Bombay, from 26th July, 2016 to 14th November, 2016.
- xiii. **Dr. K. Ramanjaneyulu**, Professor acted as a Judge for a National Level Technical Symposium SAPIENCE – 2016 organised by department of ECE, Sri Vasavi Institute of Engineering & Technology, Nandamuru on 23rd December, 2016.
- xiv. **Dr. K. Ramanjaneyulu**, Professor given presentation on “**Digital Image Water Marking**” and its applications on 31st December, 2016 at Kallam Haranadhareddy Institute of Technology, Guntur.
- xv. **Dr. K. Ramanjaneyulu**, Professor attended as a Chief Guest for the Inaugural Function of IETE Students forum on 31st December, 2016 at Kallam Haranadhareddy Institute of Technology, Guntur.

5. Students selected for GATE/IELTS/GRE/TOEFL and other competitive Examinations:

17 students of final year are qualified in IELTS Exam.

6. Students' achievements:

a) **Literary and Cultural Activities/Academic awards:**

- i. 45 Students participated in “**Krishna Pushkaralu-2016**” as volunteers along with four faculty members.
 1. **Mr. J. Ravindra Babu**, Associate Professor
 2. **Mr. K.P.R. Krishna**, Assistant Professor
 3. **Mr. A. Ashok Babu**, Assistant Professor
 4. **Mr. P. Venu Madhav**, Assistant Professor
- ii. Debate, Group Discussion – 2
Quiz competitions -- 1
were conducted in October month for III Year students.

b) Presentation/Participation in Seminars/Conferences/Workshops:

- i. Seven student members of IV year went to **SHAR, Sriharikota** to present their selected papers in A Technical Symposium LAMSYS-2016.

Faculty member accompanied the students:

Mr. P. Venumadhav, Assistant Professor

Title of the Paper: 1. Recycling of space debris, Space mining, Colonisation

- | | |
|----------------------------|----------------------|
| a) Mr. M.T.D.S. Phannendra | Regd. No: 13501A04A2 |
| b) Mr. Vamsi Krishna | Regd. No: 13501A04A9 |
| c) Mr. PSB Siddhartha | Regd.No:13501A0487 |
| d) Mr. Abdul Sharaq | Regd. No: 13501A0499 |

Title of the Paper: 2. Innovative idea for space exploration

- | | |
|-------------------------|----------------------|
| a) Mr. U. Akhil | Regd. No: 13501A04A4 |
| b) Mr. P. Thirumala Rao | Regd. No: 13501A0485 |
| c) Mr. S. Rajeev Mukesh | Regd. No:13501A0496 |

- ii. **Ms. B.Usha Rani & Ms. M.Neelima**, of II M.Tech presented and published papers in the Second International Conference on Aerospace, Electronics, Electrical, Communication and Instrumentation (ASECI-2016) held on 22nd and 23rd October, 2016. ISBN No:978-81-923295-2-9 organised by VRSEC Vijayawada.
- iii. Our Project Model was selected as "Best Project Model" in a two day **Space Exhibition** conducted by ISRO, Sriharikota at VRSEC.

- iv. 27 students from II & III ECE received certificates for the online certification course on **Signals & Systems** (EE210X) conducted by IIT, Bombay, from 26th July, 2016 to 18th November, 2016.

S No	Reg No	Name	Class	Grade
1	14501A0425	E.Raghavendra Sarma	III ECE	B
2	14501A0486	P.Likhitha	III ECE	B
3	14501A0496	Sonya .K	III ECE	C
4	14501A0455	K.Bharathi	III ECE	D
5	14501A0479	P.Lavanya	III ECE	B
6	14501A0440	J.Sai Sirisha	III ECE	D
7	14501A0492	Shaik Salma	III ECE	B
8	14501A0497	Sravani.D	III ECE	B
9	14501A04B7	V.Naga Lakshmi	III ECE	C
10	14501A0438	J.Swathi	III ECE	D
11	15501A0472	N.Ratna Mythihi	II ECE	B
12	15501A0489	R.Jayasri	II ECE	D
13	15501A0473	N.Harini	II ECE	D
14	15501A0464	M.Swathi	II ECE	D
15	15501A0469	T.N.V.A.Swathi Ramya	II ECE	B
16	15501A04A3	T.Bhavana	II ECE	B
17	15501A04B4	Y.Aakanksha	II ECE	B
18	15501A04B0	V.Reshma	II ECE	C
19	15501A0482	P.Mangala Gowri	II ECE	B
20	15501A0434	I.Kavya	II ECE	D
21	15501A0422	D.Dharani	II ECE	C
22	15501A0442	K.Harika	II ECE	C
23	15501A0475	N.Lakshmi Manasa	II ECE	B
24	16505A0422	P.Mounika	II ECE	C
25	14501A0447	K.S.D.Mahendra Kumar	III ECE	D
26	15501A0460	M. Ramya Sri	II ECE	D
27	14501A0439	J.Jyotshna	III ECE	D

v. **Ms. Dharavathu Sravanthi** Regd. No: 12501A0424 (Scholar ship TATA-2 Grant)
Got scholar ship from Foundation for Academic Excellence & ACCEss (FAEA), New
Delhi.

vi. **II years students** exhibited their project **“Roaming Robot”** in Gora Science
Exhibition and won 3rd Prize. The event was held on 15th December, 2016.

Students Names:

Ms. N. Ratna Mythili, Reg. No: 15501A0472

Ms. P. Mangala Gowri, Reg. No: 15501A0480

Ms. V. Susmitha, Reg. No: 15501A04B0

Ms. T. Bhavana, Reg. No: 15501A04A3

Ms. Y. Aakanksha, Reg. No:15501A04B4

Ms. NVA Swathi Ramya. Tata. Reg. No: 15501A0464