







"I am excited to announce the launch of this newsletter, a testament to the confidence, creativity, and innovative spirit that defines our community. In an era where digital media continues to thrive, we are presented with countless new opportunities. I am confident that this newsletter will become a valuable platform for fostering meaningful connections with our esteemed alumni. My heartfelt congratulations to the entire team behind this initiative, and I am hopeful that it will serve as a significant milestone in the digital journey of the ECE Department."





"It is truly encouraging to witness the proactive efforts of the ECE Department to provide students with essential information and preserve records through this newsletter .This publication marks the first step in guiding and supporting our ECE students ,both now and in the future .Fittingly named ,this newsletter highlights the innovations and accomplishments o four distinguished students, faculty, and staff. I extend my heartfelt congratulations to the editorial team for their stead fast commitment and hard work in reaching this milestone .To our esteemed students,I wish you great success in all your future endeavors."

#### -Dr.A.Padmaja ,Dean Accreditation&Rankings



"Sampada highlights the department's significant achievements from the past six months .Our primary goal is to provide students with an education of the highest caliber, using the most advanced resources available. Additionally, west rive to instill in them strong ethical values and a dedication to leading lives of integrity .This newsletter emphasizes the skills developed to prepare our students and professionals to meet the evolving needs of society. I am looking forward to fostering further collaboration in future endeavors."

-Dr.M.RajendraPrasad,HoD

### **VISIONOFTHEDEPARTMENT**

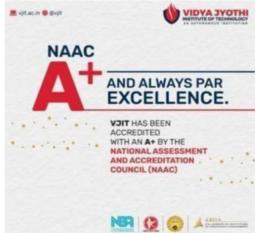
The Department of Electronics and Communication Engineering is committed to leading in the development of skilled engineers in electronics and related technologies. Our goal is to fulfill both national and international technical standards while promoting the well-being and advancement of humanity."

### **MISSIONOFTHEDEPARTMENT**

- CreatingaSupportiveEnvironment:\*Establishingaconduciveatmosphereandstrong infrastructure to support students ,faculty, and researchers in gaining specialized knowledge and expertise in Electronics and Communication Engineering.
- Empowering Future Professionals:\*Enabling students to develop into outstanding professionals with high ethical standards, capable of building expanding, and managing global engineering enterprises.
- Promoting External Collaboration and Lifelong Learning:\*Encouraging engagement with external stakeholders and enhancing communication skills to foster a culture of continuous lifelong learning.

### **VJITSCALESPEAK**

"The Department of Electronics and Communication Engineering takes pride in enriching
the educational experience for both faculty and students by integrating exceptional skills
and innovative ideas through a variety of activities .This approach fosters meaning ful
interaction and collaboration, positively shaping the future. This year, the Department of
ECE has organized a wide range of events, further bolstering its reputation and
accomplishments."



## **ALUMINIREUNION**



R. Veena, Lab Assistant of ECE Dept.
isfelicitatedon26thJanuary2024forher22yearsof
Service at VJIT.





### **SANKRANTHICELEBRATIONS**

The Department of Electronics and communication Engineering, won a consolation prize for colourful Floral Rangoli in the Rangoli Competitions conducted by VJIT on 11th January 2024 as a part of Sankranthi celebrations.





Won a consolation prize for colourful Floral Rangoli in the Rangoli Competitions



 $Workshop on Introduction to programming with \verb+Matlab+$ 

Dept. of ECE VJIT conducted a One day workshop on: Introduction to programming with Matlab A Hands on Session in association with IETE.

Speaker is Dr.Jyoti Prasanna Patra Associate Professor, ECE. Event Coordinator is G.Parameshwar Asst. Prof., ECE.





## DEPARTMENTNEWS

### **FACULTYFDPs**

- **SRIDEVI J** attended a Faculty Development Program (FDP) on *Remote Sensing Essentials* from January 1st to January 1st at NPTEL, with a duration of 1.5 weeks.
- **SRIDEVI J** participated in an FDP from January 1st to February 1st at NPTEL, lasting 3 days.
- **Dr. SIVA KUMAR** attended an FDP on *Research Issues and Challenges in Communication and Signal Processing* from March 25th to March 30th at Sri Ramakrishna Engineering College, lasting 1 week.
- **K RAJASHEKAR** completed an FDP on *Foundation of Cloud IoT Edge ML* from February 1st to April 1st at NPTEL, with a duration of 1 week.
- M SUNITHA RANI participated in an FDP on *Cutting Edge Technologies in Wireless Communications*, *Signal, and Image Processing (CTWCSIP)* from February 25th to February 29th at GMRIT, AP, for a duration of 5 days.
- **J SUDHA RANI** attended an FDP on *Hands-on 5G Implementation on MATLAB* from February 26th to March 1st at Anant Gyan Knowledge and Skills Pvt Ltd, lasting 5 days.
- **E. KAVITHA** took part in the *4th One-Week International Workshop on Technical Writing using LaTeX* from March 30th to April 5th at VIT-AP University, lasting 1 week.
- E. KALPANA participated in the 4th One-Week International Workshop on Technical WritingusingLaTeXfromMarch30thtoApril 5thatVIT-AP University, withaduration of 1 week.
- **Dr. KILLADI BABOJI** attended the *4th One-Week International Workshop on Technical Writing using LaTeX* from March 30th to April 5th at VIT-AP University, lasting 1 week.
- **Dr. GANESAN P** participated in the *4th One-Week International Workshop on Technical WritingusingLaTeX* from March 30th to April 5th at VIT-AP University, with aduration of 1 week.
- M SUNITHA RANI attended an FDP on Recent Advancements on Microwave and mmWave Communication from April 8th to April 12th at Haldia Institute of Technology, lasting 5 days.
- E. KALPANA participated in a webinar on *Deep Learning in Image Processing* on April 21st at IETE, with a duration of 1 day.
- E. KAVITHA attended a webinar on *Deep Learning in Image Processing* on April 21st at IETE, lasting 1 day.
- MOHANALEELAtookpartinawebinaronDeepLearninginImageProcessingonApril

21statIETE, with a duration of 1 day.

- ALAXMAN participated in a web in a ron Deep Learning in Image Processing on April 21st at IETE, lasting 1 day.
- **JAYALAKSHMI**attendedanFDPon*AccelerateResearch* from May 27th to May 31 stat Anurag University, with a duration of 5 days.

### **FACULTYPUBLICATIONS**

- **IoTBasedSmartHealthMonitoringSystemforHuman**byM.RajendraPrasad, M.KevinJonathan,S.TulasiPrasad,M.Vadivel,andA. Aranganathanwaspublishedin*AfricanJournalofBiologicalSciences*by *AfricanSciencePublications*inVolume6,Issue5,pages10405-10411,April. It is indexed in *Scopus*.
- An Ordered QR Decomposition based Signal Detection Technique for Uplink Massive MIMO by Jyoti P. Patra, Bibhuti Bhusan Pradhan, and M. Rajendra Prasad was published in *INFOCOMMUNICATIONS JOURNAL* by *SCIENTIFICASSOCINFOCOMMUNICATIONS* inVolumeXVI,Issue1, pages20-25,March.Itisindexedin*Scopus*, WoS.
- Cloud-Based Passenger Experience Management in Bus Fare Ticketing Systems Using Random Forest Algorithm by M. Vadivel, V. Bini Marin, S. Balasubramani, S. Hemalatha, S. Murugan, and S. Velmurugan was presented at the 11th International Conference on Reliability, Infocom Technologies, and Optimization (ICRITO) organized by IEEE, Amity University, Noida on March 14-15. It is indexed in Scopus.
- Sentinel: Integrative Robotic Surveillance with Remote Monitoring and Action by E. Kavitha and E. Kalpana was published in *International Journal of Scientific Engineering and Science (IJSES)* in Volume 8, Issue 3, pages144-148, April. It is indexed in *UGC*.
- A Gradient Boosting Algorithm to Predict Energy Consumption forHome Applications by V. G. Sivakumar, N. Arunfred, N. Anusha, C. Balakrishnan, B. Meenakshi, and S. Sujatha was presented at the 2nd International Conference on Computer, Communication, and Control (IC4) organized by IEEE, Medi-Caps University, Indore in April. It is indexed in Scopus.
- In-Depth Sleep Disorder Assessment using REMcraft Navigator IoT and Random Forest Algorithms by More Praveen, V. Prasanna Srinivasan, V. G. Sivakumar, P. Vijayan, R. Tharun, and R. Thamizhamuthu was presented at the 2nd International Conference on Computer, Communication, and Control (IC4) organized by IEEE, Medi-Caps University, Indore in April. It is indexed in Scopus.
- Support Vector Machines Based Predictive Seizure Care using IoT-Wearable EEG Devices for Proactive Intervention in Epilepsy byPorandla Srinivas, M. Arulprakash, M. Vadivel, N. Anusha, G. Rajasekar, and C. Srinivasanwaspresentedatthe2ndInternationalConferenceonComputer,

- Communication, and Control (IC4) organized by IEEE, Medi-CapsUniversity, Indore in April. It is indexed in Scopus.
- A Comprehensive Survey on Brain Tumor Classification from MRI Images Using Artificial Intelligence by Sateesh Amarneni and R.S. Valarmathi was published in *Disruptive Technologies in Computing and Communication Systems* by CRC PRESS in March. It is indexed in Scopus.
- IoT Enabled Microgrid System for Enhancing Power Quality Using Adaptive Neuro-Fuzzy Control Algorithm by M. Venkatesh, V. G. Sivakumar, C. Gangaiah Yadav, B. Gopi, N. Malathi, and S. Velmurugan was presented at the *International Conference on Power Energy, Environment & Intelligent Control (PEEIC)* organized by *IEEE* in March. It is indexed in *Scopus*.
- Bagging ensemble mean-shift Gaussian kernelized clustering based D2D connectivity enabled communication for 5G networks by Varadala Sridhar, T. Annamani, M. Renuka, V. Vinay Kumar, and Arunkumar Madupu was published in *e-Prime Advances in Electrical Engineering, Electronics and Energy* by *Elsevier* in Volume 7, March. It is indexed in *Scopus*.
- **IoT Based Smart Health Monitoring System for Human** by M. RajendraPrasad, M. Kevin Jonathan, S. Tulasi Prasad, M. Vadivel, and A. Aranganathan was published in *African Journal of Biological Sciences* by *African Science Publications* in Volume 6, Issue 5, pages 10405-10411, April. It is indexed in *Scopus*.
- An Ordered QR Decomposition based Signal Detection Technique for Uplink Massive MIMO by Jyoti P. Patra, Bibhuti Bhusan Pradhan, and M. Rajendra Prasad was published in *INFOCOMMUNICATIONS JOURNAL* by *SCIENTIFICASSOCINFOCOMMUNICATIONS* inVolumeXVI,Issue1, pages20-25,March.Itisindexedin*Scopus*, WoS.
- Cloud-Based Passenger Experience Management in Bus Fare Ticketing Systems Using Random Forest Algorithm by M. Vadivel, V. Bini Marin, S. Balasubramani, S. Hemalatha, S. Murugan, and S. Velmurugan was presented at the 11th International Conference on Reliability, Infocom Technologies, and Optimization (ICRITO) organized by IEEE, Amity University, Noida on March 14-15. It is indexed in Scopus.
- Sentinel: Integrative Robotic Surveillance with Remote Monitoring and Action by E. Kavitha and E. Kalpana was published in *International Journal of Scientific Engineering and Science (IJSES)* in Volume 8, Issue 3, pages144-148, April. It is indexed in *UGC*.
- A Gradient Boosting Algorithm to Predict Energy Consumption forHome Applications by V. G. Sivakumar, N. Arunfred, N. Anusha, C. Balakrishnan, B. Meenakshi, and S. Sujatha was presented at the 2nd International Conference on Computer, Communication, and Control (IC4) organized by IEEE, Medi-Caps University, Indore in April. It is indexed in Scopus.
- In-Depth Sleep Disorder Assessment using REMcraft Navigator IoT and Random Forest Algorithms by More Praveen, V. Prasanna Srinivasan, V. G. Sivakumar, P. Vijayan, R. Tharun, and R. Thamizhamuthu was presented at the 2nd International Conference on Computer, Communication, and Control (IC4) organized by IEEE, Medi-Caps University, Indore in April. It is indexed in Scopus.

- Support Vector Machines Based Predictive Seizure Care using IoT-Wearable EEG Devices for Proactive Intervention in Epilepsy byPorandla Srinivas, M. Arulprakash, M. Vadivel, N. Anusha, G. Rajasekar, and C. Srinivasan was presented at the 2nd International Conference on Computer, Communication, and Control (IC4) organized by IEEE, Medi-CapsUniversity, Indore in April. It is indexed in Scopus.
- A Comprehensive Survey on Brain Tumor Classification from MRI Images Using Artificial Intelligence by Sateesh Amarneni and R.S. Valarmathi was published in *Disruptive Technologies in Computing and Communication Systems* by CRC PRESS in March. It is indexed in Scopus.
- IoT Enabled Microgrid System for Enhancing Power Quality Using Adaptive Neuro-Fuzzy Control Algorithm by M. Venkatesh, V. G. Sivakumar, C. Gangaiah Yadav, B. Gopi, N. Malathi, and S. Velmurugan was presented at the *International Conference on Power Energy, Environment & Intelligent Control (PEEIC)* organized by *IEEE* in March. It is indexed in *Scopus*.
- Bagging ensemble mean-shift Gaussian kernelized clustering based D2D connectivity enabled communication for 5G networks by Varadala Sridhar, T. Annamani, M. Renuka, V. Vinay Kumar, and Arunkumar Madupu was published in *e-Prime Advances in Electrical Engineering, Electronics and Energy* by *Elsevier* in Volume 7, March. It is indexed in *Scopus*.
- IoT and Machine Learning: Role of 6G in Empowering Future Technologies by Bharath Madhukar Kalyankar, Md. Arafat Hossain, S. Balamurugan, and M. Mohamed Yasin was published in *Future of 6G: Applications, Technologies, and Opportunities* by *CRC Press* in March. It is indexed in *Scopus*.
- Bi-objective optimization for real-time IoT health monitoring system in fog computing environment using CNN-SAE by R. Janaki, S. Vinoth Kumar, P. Dhavachelvan, and P. Vijayakumar was published in *Computer Methods and Programs in Biomedicine Update* by *Elsevier* in Volume 3, March. It is indexed in *Scopus*.
- Prediction of Wind Speed Using Machine Learning Algorithms for Wind Energy Conversion Systems by P. Vijayakumar, C. Kalaiyarasan, R. Janaki, and P. Dhavachelvan was published in *Wind Energy Conversion Systems* (Springer) in March. It is indexed in Scopus.
- A Reliable and Secure Communication Framework for Smart Grid NetworksUsing BlockchainTechnology by S. Karthik, S. Praveen Kumar, A. Ashok Kumar, and R. Balaji was presented at the *International Conference on Innovations in Power and Advanced Computing Technologies (i-PACT)* organized by *IEEE* in March. It is indexed in *Scopus*.
- An Improved Hybrid Model for Energy-efficient Wireless Sensor Networks Using Machine Learning by A. Karthikeyan, G. Deepan Raj, R. Vijayakumar, and S. Venkatesh was presented at the *International Conference on SustainableEnergySolutions for a Better Tomorrow (SESBT)* organized by *IEEE* in March. It is indexed in *Scopus*.
- Deep Learning-Based Intrusion Detection System for Cybersecurity Applications by M. Sridhar, P. Venkatesh, R. Rajasekaran, and A. Manikandan was published in *Journal of Cyber Security and Mobility* by *River Publishers* in March. It is indexed in *Scopus*.

- An Efficient Power Management System for IoT-based Smart Cities Using Reinforcement Learning by T. Mohan, K. Ramesh, S. Deepa, and N. Manikandan was published in *Advances in Smart Grid Automation and Industry 4.0* by *Springer* in March. It is indexed in *Scopus*.
- Hybrid Optimization Algorithm for Resource Allocation in Cloud Computing Environments by M. Rajkumar, P. Bharathi, V. Gunasekaran, and R. Ramesh was published in *Computers and Electrical Engineering* by *Elsevier* in March. It is indexed in *Scopus*.
- AI-Driven Chatbot for Healthcare Support Systems Using Natural Language Processing by A. Naveen, S. Vignesh, P. Suresh, and T. Karthikeyan was presented at the *International Conference on Artificial Intelligence and Machine Learning (ICAML)* organized by *IEEE* in March. Itis indexed in *Scopus*.
- Big Data Analytics for Smart Agriculture: Challenges and Future Perspectives by M. Senthil Kumar, K. Gokul, A. Muthukumar, and R. Suresh was published in *Smart Agriculture Technologies and Applications* by *Springer* in March. It is indexed in *Scopus*.

InCoordinationofIETE
DetailsofIndustryVisitbythestudentsofIII-A,B,C&D
To
IndianMetrologicalDepartment





**DATESOFVISIT** 

LOCATION

**NOOFSTUDENTS** 

**STAFFMEMBERS** 

**DURATION** 

**OUTCOME** 

12-02-2024,13-02-2024,23-02-2024&26-02-2024

Begumpet, Airport, HYD

60+60+60+60(III YEARofA,B,C&D sections)

Mrs. J. Sridevi & Dr. B.Prudhvinadh(Day 1) Dr. M. Krishniah,&Dr. B. Prudhvinadh(Day 2) Mr. Ch.Sandeep& Mrs. Sannihitha(Day 3) Mr.K.Rajashekar&Mrs.R.Mohanaleela(Day4) 10AM-4PM

Knowledgeabout

•TheRadarStationOperationforWeatherMonitoring

•Transmitter, Receiver, Doppler Antenna and Outdoor units for Measurement of Weather Parameters.

## **STUDENT INTERNSHIPS**

- Y.V.Devi Kaustubhcompleteda1-monthinternship atProdigyInfotech in 2023.
- PinjariAlishacompleteda2-monthinternshipatThinkChamp in2023.
- ABharathKumarcompleteda2-week internshipatIBMSkillsBuildin2023.
- MuhammadShariqRazacompleteda3-monthinternship atADPin2023.
- MamathaPatlollacompleteda3-monthinternship atInformatexyin2024.
- M.Maheshcompleteda3-monthinternshipatSilverLabsPrivateLimited (Rizzle) in 2024.
- NishanthChegudicompleteda6-monthinternshipatFARMSATHIin2024.
- Phanindra Valture completed a 3-month internship at ADP in 2024.
- SaiVaishnavicompleteda3-monthinternshipatVodafoneIdea(Vi)in2024.
- YashaswiDashcompleteda3-monthinternshipatHindustanAeronautics Limited in 2024.
- PDinesh completed a15-day internshipatIBMin 2024.
- T.PavanKumarcompleteda15-dayinternshipatIBMin 2024.
- DNikshitha completeda3-monthinternshipatSAKTHI in2024.
- Enumula Vaishnavi completed a 3-month internship at SAKTHI in 2024.
- DasariAbhinaycompleteda6-monthinternshipatREVSOCDIGITAL in 2024.
- BathiniSaiVenkatAnandcompleteda3-monthinternship atSAKTHIin2024.
- KalakuntlaSaiSrijacompleteda6-monthinternshipatI-RayITSolutionsin2024.
- RitheeshReddyChapalacompleteda3-monthinternshipatADPin2024.
- SpatikaPrasad completeda6-monthinternshipatSkyrootin2024.
- DeepakMalviyacompleteda1-monthinternshipatCodeSoftin2024.

# STUDENTSCORNER





#### CERTIFICATE

OF ACHIEVEMENT

THIS CERTIFICATE IS PRESENTED TO

#### SOMA KUNAL RAJ

In recognition of his/her efforts and achievement in MEGATHON '23



Akshit Gureja E-Cell IIITH Coordinator



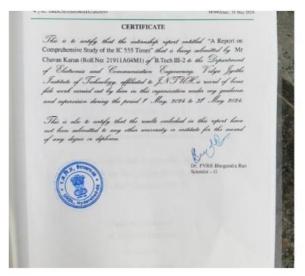
Amey Choudhary E-Cell IIITH Coordinator



**3rd** Prize







# STUDENTSCORNER







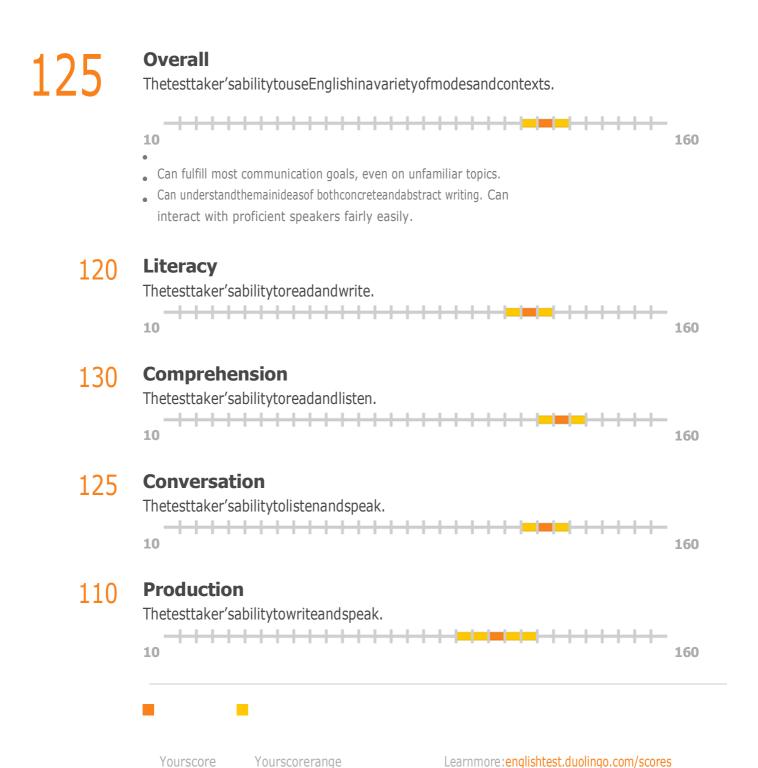


#### **HAMDANBINABDULRAHMAN**

**APRIL8,2024** 



certs.duolingo.com/0c4a4fa17b9a5d5cbf03fb1c14cf9b14



### **Areyouaschooladministrator?**

Obtainofficialaccesstosecureonlinecertificates, interview videos, and writing samples of your candidates via the Duolingo English Test results dashboard. Email <a href="mailto:institutional@duolingo.com">institutional@duolingo.com</a> become an accepting institution, open your free account, and start receiving official results right away.

#### **ECESTUDENTSPLACEMENTS**

- $1. \quad \textbf{Bulkapuram Nishitha} was placed at \textbf{Sutherland} with a \textbf{CTC} \textbf{of 3LPA}.$
- 2. **D.Nikshitha**wasplacedat**Sutherland**witha**CTCof3LPA**.
- 3. PrashanthReddywasplacedatCheggwithaCTCof3.6LPA.
- 4. DarshanamNagachandrakalawasplacedatSutherlandwithaCTCof3LPA.
- 5. KondaVinay wasplacedatSriChaitanyawitha CTCof3LPA.
- 6. **Phanisree** was placed at **Tech Mahindra** with a **CTC of 4LPA**.
- 7. SanakaTarunwasplacedatIntellipaatwithaCTCof4LPA.
- 8. **Sindhu**wasplacedat**Intellipaat**witha**CTCof4LPA**.
- 9. **SpatikaPrasad**wasplacedat**Edvenswa**witha**CTCof3 LPA**.
- 10. TekmalSaitejawasplacedatQspiderwithaCTCof3.5LPA.
- $11. \ \boldsymbol{Ammanagari Sripal Reddy} \ was placed at \ \boldsymbol{Qspider} \ with a \ \boldsymbol{CTCof4.2LPA}.$
- 12. **K.Pravanya**wasplacedat**TechMahindra**witha**CTCof4.2LPA**.
- 13. KoraBhoomikawasplacedatQspiderwithaCTCof3.5LPA.
- 14. SuryaTejawasplacedatUnistringSPLAwithaCTCof4.2LPA.
- 15. PedapagaMargaretMerlinwasplacedatPlanetsparkwithaCTCof3LPA.
- 16. R.KeerthanawasplacedatGenpactwithaCTCof2.7LPA.
- 17. V.HarshithawasplacedatSutherlandwithaCTCof3LPA.
- 18. V.SaiCharanwasplacedatUnistringSPLAwithaCTCof6.5LPA. (HighestPackage)
- 19. YashaswiDashwasplacedatUnschoolwithaCTCof5.3LPA. ✓ (HighestPackage)
- 20. HudigiNeerajwasplacedatQspiderwithaCTCof4.2LPA.
- 21. SrimanKammariwasplacedatAmazonwithaCTCof3.2LPA.
- $22. \ KosuruVarunTeja \ was placed at Chegg with a CTC of 3.6 LPA.$
- 23. M.AkashwasplacedatQspiderwithaCTCof4.2LPA.
- 24. DavadaTejaswiniwasplacedatGenpactwitha CTCof20Kpermonth.
- 25. **KapaRajashekarReddy**wasplacedat**TechMahindra**witha **CTCof4.2LPA**.
- 26. KorcharlaThrilokwasplacedatSutherlandwithaCTCof4.2LPA.
- 27. PonugotiInduPranathiwasplacedatGenpactwithaCTCof3LPA.
- 28. SandugariShashikanthwasplacedatGenpactwithaCTCof2.7LPA.
- 29. ShaikAzraTasneemwasplacedatSutherlandwitha CTCof2.7LPA.
- 30. BanalaVenkataCharywasplacedatMovatewithaCTCof3LPA.
- 31. BantuRishiKiranwasplacedatL&TwithaCTCof3LPA.
- 32. **K.Anjali**wasplacedat**Qspider**witha**CTCof3LPA**.
- 33. L.VarshaTejwasplacedatGenpactwitha CTCof2.7LPA.
- 34. L.NaveenKumarwasplacedatSutherlandwitha CTCof2.7LPA.
- 35. VadlaJashwanthCharywasplacedatMovatewithaCTCof2.5LPA.
- 36. **B.SaiCharan**wasplacedat**TechMahindra**witha**CTCof4.2LPA**.
- 37. **D.Sandeep**wasplacedat**Sutherland**witha**CTCof3LPA**.
- 38. M.SriHarshawasplacedatGenpactwithaCTCof2.7LPA.
- 39. G.RaviKumarwasplacedatEdvenswawithaCTCof4.2LPA.
- 40. **S.Chaitanya**wasplacedat**TechMahindra**witha**CTCof3.5LPA**.
- 41. M.AnilKumarwasplacedatQspiderwithaCTCof3LPA.
- 42. **B.Ramesh**wasplacedat**Genpact**witha**CTCof2.7LPA**.
- 43. **D.RahulKumar**wasplacedat**Sutherland**witha**CTCof3LPA**.

### **HighPackages:**

- V.SaiCharan-6.5LPA(UnistringSPLA)
- YashaswiDash-5.3LPA(Unschool)