

KONGUNADU

COLLEGE OF ENGINEERING AND TECHNOLOGY AUTONOMOUS

Namakkal- Trichy Main Road, Thottiam, Trichy (Dt)- 621 215, Tamilnadu

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BITWHACKERS NEWSLETTER

DEPARTMENT OF INFORMATION AND TECHNOLOGY

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COLLEGE VISION / MISSION:

VISION

"To become an Internationally renowned Institution in technical education, research and development, by transforming the students into competent professionals with leadership skills and ethical values."

MISSION

- Providing the Best Resources and Infrastructure.
- Creating Learner centric Environment and continuous –Learning.
- Promoting Effective Links with Intellectuals and Industries.
- Enriching Employability and Entrepreneurial Skills.
- Adapting to Changes for Sustainable Development

DEPARTMENT VISION/MISSION:

VISION

To produce competent IT professionals, researchers and entrepreneurs with moral values in the field of Information Technology

MISSION

- Enrich the students' programming and computing skills through best teaching-learning processes, laboratory practices and through project-based learning.
- Inculcate real world challenges, emerging technologies and endeavor the students to become entrepreneurs or make them employable.
- Inculcating moral and ethical values to serve the society and focus on students' overall development.

PROGRAM EDUCATIONAL OBJECTIVES

PEO I: Graduates shall become IT professionals with specialization in Software Engineering, Networking, Data Mining and Cloud computing.

PEO II:

Graduates shall build IT solutions through analysis, design and development of software and firmware solutions for real-world problems and social issues.

Graduates shall have professional ethics, team spirit, life-long learning, good

PEO III: oral and written communication skills and adopt corporate culture, core values and leadership skills.

PROGRAM SPECIFIC OUTCOMES (PSO's)

Professional skills: Students shall understand, analyze and develop IT applications in **PSO1:** the field of Data Mining/Analytics, Cloud Computing, Networking etc., to meet the requirements of industry and society.

PSO2: Competency: Students shall qualify at the State, National and International level competitive examination for employment, higher studies and research.

PROGRAMME OUTCOMES (POS)

Engineering Knowledge: Apply the knowledge of mathematics, science,

PO1. engineering fundamentals, and engineering Specialization to the solution of complex engineering problems.

Problem Analysis: Identify, formulate, research literature, and analyze engineering

PO2. problems to arrive at substantiated conclusions using first principles of mathematics, natural, and engineering sciences.

PO3. Design/development of solutions: Design solutions for complex engineering problems and design system components, processes to meet the specifications with consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4. including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

Modern tool usage: Create, select, and apply appropriate techniques, resources, and PO5. modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO6. The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal, and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7. engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

Ethics: Apply ethical principles and commit to professional ethics and **PO8.** responsibilities and norms of the engineering practice.

PO9. Individual and team work: Function effectively as an individual, and as a member or leader in teams, and in multidisciplinary settings.

PO10. Communication: Communicate effectively with the engineering community and with society at large. Be able to comprehend and write effective reports documentation. Make effective presentations, and give and receive clear instructions.

Project management and finance: Demonstrate knowledge and understanding of **PO11.** engineering and management principles and apply these to one's own work, as a member and leader in a team. Manage projects in multidisciplinary environments.

PO12. engage in independent and life-long learning in the broadest context of technological change.

Common Activities

❖ Tenth National Level Symposium (TEKCLUSTER'23) was organized on 26.08.2023.



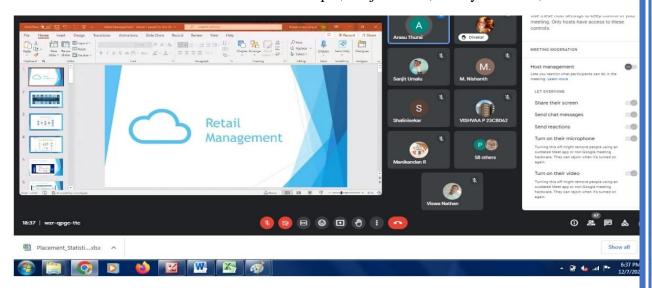
Parent - Teachers Meet

❖ Parent – Teachers Meet was conducted for III, II and II year on 11th March, 12th March & 13th July 2023 respectively. The prizes has been awarded to the students and staff members for their best performance.

Department Activities

Programme Conducted by the Department
(Workshop / Seminar/ Guest Lecture / Training / Webinar/ Others)

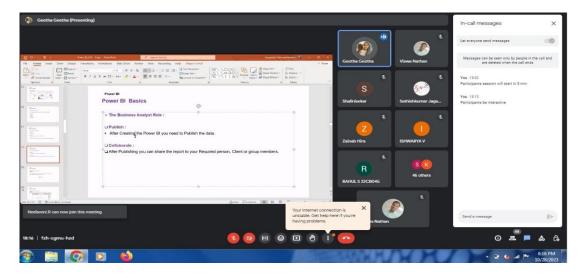
❖ Seminar on 'Microsoft Azure Cloud in Retail Supply Chain' was organized on 29th Nov 2023. The Resource Person was Thurairasu Gopal, Project Lead, Infosys Limited, Canada.



❖ IEEE Webinar on 'Cyber Security Awareness' was organized on 28th Oct 2023. The Resource Person was Mr. Dinesh Paranthagan, Hackup Technologies, Coimbatore.



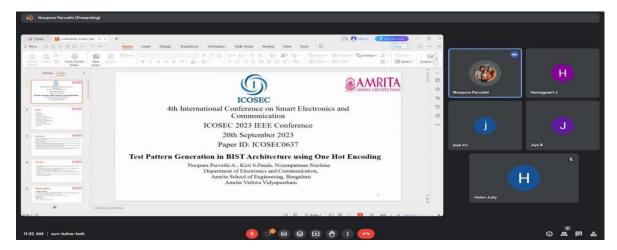
Seminar on 'Power BI' was organized on 28th Oct 2023. The Resource Person was Sangeetha Thirunavukkarasu, Project Coordinator, Smart Cliff Learning Solutions.



❖ Guest lecture on 'UI UX Design' was organized on 17th Oct 2023. The Resource Person was Mr. K. Aravindraj, Techincal Trainer, Xplore IT Corp., Coimbatore.



❖ 4th International Conference on Smart Electronics and Communications (ICOSEC-2023) was organized from 20th to 22nd September 2023. The Resource Person was Dr.T.Muthumanickam, B.E, M.Tech, Ph.D, SMIEEE, MISTE, MIETE, Professor and Head, Department of Electronics and Communication Engineering, Vinayaka Mission's Kirupananda Variyar Engineering College (A Constituent College of Vinayaka Mission's Research Foundation Deemed to be University) & IEEE Society Chair-AES Chapter Madras Section,, Tamil Nadu, India.



Seminar on 'Cloud Computing' was organized on 16th Sep 2023. The Resource Person was Ms. P.Yaashicaa, Systems Engineer, TCS, Chennai.



Seminar on 'Carrier Growth on JAVA Full Stack Development' was organized on 15th Sep 2023. The Resource Person was Dr. M.M.Babu Annadurai, Full Stack Java Developer & Trainer, JCLUSTER Software Solutions, Namakkal.



Association Inauguration & Seminar on 'Artificial Intelligence in Robotics' was organized on 19th Aug 2023. The Resource Person was Mr. Kamalakannan Annamalai, Senior Specialist (Project Manager), LTI Mindtree Limited, Chennai.



DEPARTMENT ACHIEVEMENTS

Publication of Book / Manual

❖ **Dr.R.sathya, R.Aruna &** K.Lalithai, Professional Ethics in Engineering, The Charulatha Publications, Chennai, November 2023.

Workshop Participation

- ❖ **Dr.K.Muthumanickam, Prof.** had attended Workshop on "Blockchain Technology" held at National Institute of Technology, Puducherry from 28.08.2023 to 01.09.2023.
- ❖ Mrs.R.Aruna, AP had attended Workshop on "IEEE Xplore Digital Library" held at Kongunadu College of Engineering and Technology, Thottiam on 25.08.2023.
- ❖ Dr.G.Sumathi, ASP had attended Workshop on "Machine Models Prelude to Production" held at Karpagam College of Engineering, Coimbatore on 24.08.2023.
- ❖ Mrs.M.Suganthi, AP had attended Workshop on "Machine Models Prelude to Production" held at Karpagam College of Engineering, Coimbatore on 24.08.2023.
- ❖ Mr.R.V.Viswanathan, AP had attended Virtual Workshop on "Advanced Research Methodology" held at SRM Institute of Science and Technology, Chennai from 03.07.2023 to 18.07.2023.
- ❖ Dr.G.Sumathi, ASP had attended Virtual Workshop on "Advanced Research Methodology" held at SRM Institute of Science and Technology, Chennai from 03.07.2023 to 18.07.2023.

FDP Participation

- ❖ Dr.K.Muthumanickam, ASP/IT had participated in FDP on 'Building Advanced Data Analytics Applications With Cloud' from16.10.2023 to 20.10.2023.
- ❖ Mrs.R.Aruna, AP/IT had participated in FDP on 'Cloud Infrastructure (AWS)' from 21.09.2023 to 25.09.2023 organized by SJC Institute of Technology.
- ❖ Dr.G.Sumathi, AP/IT & Mr.R.V.Viswanathan, AP/IT had participated in FDP on 'Cloud Infrastructure (AWS)' from 21.09.2023 to 25.09.2023 organized by PSAN College of Engineering and Technology, Dindigul on 21.09.2023 to 25.09.2023.
- ❖ Mr.R.V.Viswanathan, AP/IT had participated in FDP on 'Next Generation Wireless Communication System Design and Simulation' from 19.09.2023 to 23.09.2023 organized by Government Ploytechnic College, Srirangam.
- Mr.N.Premkumar, ASP/IT, Dr.K.Muthumanickam, Prof./IT, Dr.G.Sumathi, ASP/IT, Mrs.S.Sangeetha, AP/IT, Dr.R.Sathya, AP/IT, Mr.J.Sathishkumar, AP/IT, Mr.R.V.Viswanathan, AP/IT, Mr.R.Palanikumar, AP/IT, Mrs.M.Suganthi, AP/IT, Mr.S.Parthiban, AP/IT & Mrs.R.Aruna, AP/IT had participated in FDP on 'LaTeX' from 01.09.2023 to 18.09.2023 organized by Spoken Tutorial Project, IIT Bombay.
- ❖ Dr.K.Muthumanickam, Prof./IT had participated in FDP on 'Multiverse Approach to upskill Professionals in Contemporary Environment' from 21.08.2023 to 26.08.2023 organized by SRM Madurai College of Engineering and Technology, Sivagangai.
- ❖ Mrs.R.Aruna, AP/IT had participated in FDP on 'AI and NLP Case Studies and Applications' from 21.08.2023 to 25.08.2023 organized by Presidency University, Bengaluru.
- ❖ Mrs.M.Suganthi, AP/IT had participated in FDP on 'Next Generation Technology' from 16.08.2023 to 22.08.2023 organized by AVS College of Technology, Salem.
- ❖ Dr.K.Muthumanickam, Prof./IT had participated in FDP on 'Production from Cyber Attacks' from 07.08.2023 to 11.08.2023 organized by Sreenidhi Institute of Science and Technology, Hyderabad.
- ❖ Mr.S.Parthiban, AP/IT, Mr.N.Premkumar, ASP/IT & Mr.J.Sathishkumar, AP/IT had participated in FDP on 'Future-Proofing Technology:Navigating Emerging trends in Computing and Security' from 24.07.2023 to 28.07.2023 organized by Adamas University.
- ❖ Dr.K.Muthumanickam, Prof./IT, Mrs.M.Suganthi, AP/IT, Dr.G.Sumathi, ASP/IT, & Mr.R.V.Viswanathan, AP/IT had participated in FDP on 'Emerging Technologies for Next Generation Networks' from 17.07.2023 to 22.07.2023 organized by Kings Engineering College ,Chennai.
- ❖ Mr.R.V.Viswanathan, AP/IT had participated in FDP on 'Emerging Recent Trends and Research in Computer Science' from 17.07.2023 to 21.07.2023 organized by Pannimalar Engineering College ,Chennai.

- ❖ Dr. G.Sumathi Academic Excellence Award in the International Conference on Innovations and Global Issues in IT, Management, Social Sciences & Agriculture (ICIGI 2023) on 29th July,2023.
- ❖ R.Palani Kumar NPTEL Discipline Award on July December 2023

NPTEL Course Completed

- NPTEL Course on 'Problem Solving Through Programming in C' was completed by **R.Palani Kumar AP/IT**, during July October 2023 with 65%.
- NPTEL Course on 'Problem Solving Through Programming in C' was completed by **R.Aruna AP/IT**, during July October 2023 with 64%.
- ❖ NPTEL Course on 'Learning Analytics Tools' was completed by **Dr.G.Sumathi ASP/IT**, during July − October 2023 with 63%.
- ❖ NPTEL Course on 'Cloud Computing' was completed by **Dr.K.Muthumanickam Prof./IT**, during July − October 2023 with 55%

IIT Spoken Tutorial Course

❖ IIT spoken tutorial course on LaTeX was conducted for Faculty members and 11 Faculty members successfully completed the certification.

Faculty Publication in Journals

- ❖ R. Siva, S.K.Hariharan, B.Hariharan & **N.Permkumar** "Automatic Software Bug Prediction Using Adaptive Artificial Jelly Optimization With Long Short-Term Memory", Wireless Pers Commun 132, 1975 -1998(2023), htts://doi.org/10.1007/s11277-023-10694-9.
- ❖ R.Sva, S.Kaliraj & **N.Premkumar** "Automatic Software Bug Prediction using Adaptive golden Eagle Optimizer with Deep Learning" Multimedia Tools and Applications 1-21(2023).10.1007/s11042-023-16666-2.

Faculty Publication in Conference

- ❖ Dr. R.Sathya 'Biometric Web Based Vote Cast using Blocks' 3rd International Conference on 'Innovative Mechanism for Industry Applications (ICIMIA)' held at Dayananda Sagar College of Engineering, Bengaluru 21.12.2023 to 23.12.2023.
- ❖ Mrs. R.Aruna & Dr. R.Sathya 'Vision Based Cassava Plant Leaf Disease Classification using Machine Learning Techniques' 2nd International Conference on 'Automation, Computing and Renewable Systems (ICACRS 2023)' held at Mount Zion College of Engineering and Technology, Pudukkottai on 11.12.2023 to 13.12.2023.

- ❖ **Dr. R.Sathya** 'Vision Based Plant Leaf Disease Detection and Recognition Model using Machine Learning Techniques' 7th International Conference on Electronics, Communication and Aerospace Technology (ICECA 2023) held at RVS Technical Campus, Coimbatore on 22.11.2023 to 24.11.2023.
- ❖ Dr. K.Muthumanickam, P. Nareshkumar, Dr. B.Selvalakshmi & Dr. P.Vijayalakshmi 'An Effective Methods for Forecasting Crime Analysis using Deep Learning Classifiers' 4th International Conference on 'Computing, Communication, and Intelligent Systems' held at Sharda School of Engineering and Technology, Uttar Pradesh on 03.11.2023 & 04.11. 2023.
- ❖ Pandiaraja Perumal, K.Sumathi, **K.Muthumanickam** & S.Murali 'Virtual Attendance Management by Facial Recognition Using OpenCV' 3rd International Conference on Cyber Security, Privacy and Networking (ICSPN-2023)' held at Dubai, UAE on 28.09.2023 to 30.09.2023.
- ❖ Mrs.S.Sangeetha, P.Suganya, S.Shanthini, G N Keshava Murthy & R.Sathya 'Crime Rate Prediction And Prevention:Unleashing The Power Of Deep Learning' 4th International Conference on 'Smart Electronics and Communication ICOSEC 2023' held at Kongunadu College of Engineering and Technology, Tamil Nadu on 20.09.2023 & 22.09.2023.
- ❖ Dr.K.Geetha, A.Srivani, S.Gunasekaran, T.Kumaravel & Mrs.S.Sangeetha 'Geospatial Data Exploration Using Machine Learning.' 4th International Conference on 'Smart Electronics and Communication ICOSEC 2023' held at Kongunadu College of Engineering and Technology, Tamil Nadu on 20.09.2023 & 22.09.2023.
- ❖ Mrs. M.Suganthi & C.Akila 'Convolution Neural Network Approach for satellite Object Detection and Recognition' IEEE International Conference on 'Networks, Multimedia and information Technology (NMITCON-2023)' held at Nitte Institute of Technology, Bengaluru on 01.09.2023 & 02.09.2023.

Students Achievements

- ❖ Abubakkar Siddiq A, Akashkanna A & Levin R of II Year Information Technology won First prize in Treasure Hunt organized by K.Ramakrishnan College of Engineering, Trichy on 03.11.2023.
- ❖ Mathiyugan R & Mukesh Rajan N of III Year Information Technology won First prize in Connections organized by KGiSL Institute of Technology, Coimbatore on 26.09.2023.
- ❖ Aarthee U.K & Monisha B of II Year Information Technology won Second prize in Paper Presentation organized by Sengunthar Engineering College, Namakkal on 26 & 27.09.2023.
- ❖ Prasana G & Praveen P of III Year Information Technology won Second prize in Cine Snap Short Film organized by SNS Institutions, Coimbatore on 12.09.2023.

- ❖ Praveen P of III Year Information Technology won First prize in CAD Modeling organized by SNS Institutions, Coimbatore on 12.09.2023.
- ❖ Hariprasath S & Karthickraja S.S of III Year Information Technology won Third prize in Connections organized by SNS Institutions, Coimbatore on 11.09.2023.
- **★ Kaviraj D & Praveen P of III Year** Information Technology won Second prize in IDEAS UNFOLD FORUM organized by SNS Institutions, Coimbatore on 11.09.2023.

NPTEL Course Completed

❖ 51 Students from Second year and Third year have successfully cleared the NPTEL Course on 'Introduction to internet of Things' during July − October 2023.

IIT Spoken Tutorial Participation

- ❖ IIT spoken tutorial course on PYTHON 3.4.3 was conducted for II year IT Students, out of 65 students, 61 Students successfully completed the certification Course.
- ❖ IIT spoken tutorial course on PYTHON 3.4.3 was conducted for III year IT Students, out of 68 students, 66 Students successfully completed the certification Course.
- ❖ IIT spoken tutorial course on Advanced CPP was conducted for IV year IT Students, out of 66 students, 51 Students successfully completed the certification Course.

Paper Presentation by Students

- ❖ Akash Kanna & Levin R of II Year Information Technology presented paper in National Level Technical Symposium organized by K.Ramakrishnan College of Engineering, Trichy on 03.11.2023.
- ❖ Dharani E & Santhiya R of II Year Information Technology presented paper in National Level Technical Symposium organized by Gnanamani College of Technology, Namakkal on 27.10.2023.
- ❖ Hariharan M of II Year Information Technology presented paper in National Level Technical Symposium organized by Mahendra College of Engineering, Salem on 13.10.2023.
- ❖ Abishek R, Rineshkumar M, Paaventhan C, Sundharsri V & Vigneshwaran B of IV Year Information Technology presented paper on Minds Unfloded in National Level Technical Symposium organized by Kings Engineering College on 29.09.2023.

- ❖ Sabeena J of II Year Information Technology presented paper in National Level Technical Symposium organized by Sengunthar Engineering College, Namakkal on 26.09.2023 & 27.09.2023.
- ❖ Harish Vishnu, Kathirvel & Sunil Santhosh S of III Year Information Technology presented paper in National Level Technical Symposium organized by Sengunthar Engineering College, Namakkal on 26.09.2023 & 27.09.2023.
- **❖ Harini A & Jona R of III Year** Information Technology presented paper in National Level Technical Symposium organized by Sengunthar Engineering College, Namakkal on 26.09.2023 & 27.09.2023.
- Anushaa T.V, Asitha R, Bhuvaneshwari V, Keerthana R, Poornika M, Ramyadharshini D, Rasiniya A & Rima N.P of III Year Information Technology presented paper in National Level Technical Symposium organized by Sengunthar Engineering College, Namakkal on 26.09.2023 & 27.09.2023.
- ❖ Archana U.K & Harini B of II Year Information Technology presented paper in National Level Technical Symposium organized by Sengunthar Engineering College, Namakkal on 26.09.2023 & 27.09.2023.
- ❖ Gayathri J, Gayathri R, Kalaiselvi S, Pooja R, Snekha M, Sudheeksha R & Swetha V of II Year Information Technology presented paper in National Level Technical Symposium organized by Chettinad College Engineering & Technology, Karur on 22.09.2023.
- ❖ Abinaya P, Abinaya V, Dharani Shree V, Dhivya M & Elamathi N of II Year Information Technology presented paper in National Level Technical Symposium organized by Chettinad College Engineering & Technology, Karur on 22.09.2023.
- ❖ Balasubramaniyan M, Gunakar R, Naveen J.N, Nikitha Vardini V, Nilani S, Ragavan M, Rajesh K.S, Ramakrishnan R, Rasidha Begam A, Santhosh S, Siva Harish R & Sivanesan M of III Year Information Technology presented paper in National Level Technical Symposium organized by Dhanalakshmi Srinivasan Engineering College, Perambalur on 22.09.2023.
- ❖ Harini K, Kanya B.K, Lidiya R, Prasheetha S, Rohini P & Shahira Begam A of II Year Information Technology presented paper in National Level Technical Symposium organized by Dhanalakshmi Srinivasan Engineering College, Perambalur on 22.09.2023.
- ❖ Aarthee U.K, Archana U.K & Priyadharsan B of II Year Information Technology presented paper in National Level Technical Symposium organized by Dhanalakshmi Srinivasan Engineering College, Perambalur on 22.09.2023.

❖ Abubakkar Siddiq A & Gowdish S of II Year Information Technology presented paper in National Level Technical Symposium organized by Dhanalakshmi Srinivasan Engineering College, Perambalur on 21.09.2023.

Conference by Students

❖ R.Asitha, V.Nikitha Varthini, M.Shivaani & **Dr.R.Sathya** 'Intelligent Video Surveillance System for Real Time Effective Human Action Recognition using Deep Learning Techniques' 2nd International Conference on 'Automation, Computing and Renewable Systems (ICACRS - 2023)' held at Mount Zion College of Engineering and Technology, Pudukkottai on 11.12.2023 to 13.12.2023.

INTERNSHIP

- Mindmade Technologies, Coimbatore
- C Cube, Karaikudi
- Hackwit Technologies Pvt , Chennai
- Samcore Solution, Trichy
- I Square Consulting, Trichy
- ❖ Nebulla Institude of Technology CSS Acedamy,
- ❖ PHOENIX SOFTECH, Madurai
- **❖** APPIN, Coimbatore
- ❖ Hi-Tech Solution, Trichy
- CodeB!nd Technologies, Chennai
- Lime Fresh, Namakkal
- **❖** ILIFE Technologies, Trichy

Value Added Course

❖ Value added course on **VACIT04 - Digital Marketing** was conducted for **II year** IT Students, 18 **Students** successfully completed the Course conducted by Mr. G.Ramanathan, Macnus Solutions Pvt. Ltd, Coimbatore.

- Value added course on VACIT05 Ethical Hacking and Cyber Security was conducted for II year IT Students, 65 Students successfully completed the Course conducted by Mr. Dinesh Paranthagan, Hackup Technologies, Coimbatore.
- ❖ Value added course on Addressing Hardware and Software Challenges: Mitigation Strategies was conducted for III year IT Students, 66 Students successfully completed the Course conducted by Mr. Dinesh Paranthagan, Hackup Technologies, Coimbatore.
- Value added course on UI / UX Design Fundamentals and Beyond was conducted for II year IT Students, 18 Students successfully completed the Course conducted by Mr.Aravind Kuppussamy, Head Training and Development, Xplore IT Corp, Coimbatore.
- ❖ Value added course on **Web Application Development** was conducted for **II year IT**Students, **29 Students** successfully completed the Course conducted by Ms.A.Loshimitha,
 Trainer & G.Pranesh, Trainer, Xplore IT Corp, Coimbatore.

INDUSTRIAL VISIT

- CodeBind Technologies, Coimbatore
- Nestsoft Technologies, Kochi, Kerala
- CodeBreaze Solutions Pvt. Ltd., Wayanad, Kerala
- Macnus Solutions, Coimbatore

PLACEMENT

Name of The Company	Number of Students Placed	Salary
M/s. Techvolt Software Pvt. Ltd.	5	2.4 L
M/s. Renault Nissan Technology & Business Centre India	1	4.5 L
Reassessment	4	
M/s. KG Invicta Services Pvt. Ltd.	1	2.5 - 3.2 L
M/s. Pegatra Technologies Pvt. Ltd.	14	2.5 L
M/s. Coapps	12	4 L