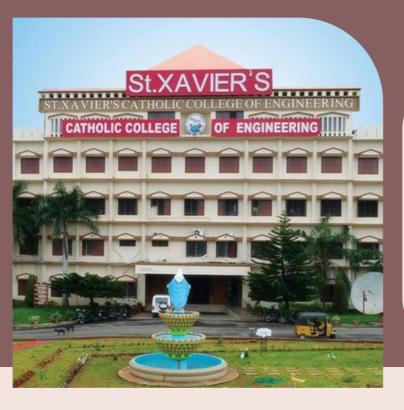


## ST. XAVIER'S CAMPUS CONNECT

**Volume IV Issue 1, August 2023** 



#### VISION & MISSION

#### Vision

To be an institution of eminence of optimal human development, excellent engineering education and pioneering research towards developing a technically-empowered humane society.

#### Mission

To transform the (rural) youth into top class professionals and technocrats willing to serve local and global society with ethical integrity, by providing vibrant academic experience of learning, research and innovation and stimulating opportunities to develop personal maturity and professional skills, with inspiring and high caliber faculty in a quality and serene infrastructural environment.

## **CORRESPONDENT'S MESSAGE**

by Rev. Fr. Dr. M. Maria William



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- Students Achievements
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- Placement Activities
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## Upcoming Events

- Nan Mudhalvan FDPs -31.072023 to 04.08.2023
- Seminar on "Business Mode" - 02.08.2023
- NSS Awareness Programme 09.08.2023
- International Youth Day-12.08.2023
- Independence Day -15.08.2023
- FDP on "Emerging Technology" - 17.08.2023 to 19.08.2023

Starting a new academic year with proper planning for excellence and positive enthusiasm heightens our expectations and motivates us to involve in all the activities with total commitment.

This issue of Campus Connect gives only such a feeling. Having completed meetings of the statutory and non-statutory bodies of autonomy and siphoning in new energy to achieve all the bench marks we are marching forward.

Achieving excellence is a commitment for habitual hardwork and regular celebration of achievements. The many activities that take place within our campus add little by little steam for faster achievements of the staff and the students, raising the all-round standard of the college.

As admissions are going on, let us open heartedly welcome the freshers and their family to be our new and meaningful stakeholders. May they enjoy education in our institution, developing their knowledge and skills, for a meaningful life and life-enhancing career. Let us all come together to make their life a celebration. Let us wish each one of them great success and a wonderful professional life.



An Autonomous Institution Affiliated to Anna University, Chennai Accredited with 'A' Grade by NAAC

UG Programs( ECE,EEE,Mech,Civil,CSE & IT) Accredited by NBA Recognized under section 2(f) & 12(B) of UGC Act, 1956 UG Programs( ECE,EEE,Mech,Civil,CSE & IT) , MBA & MCA Programs Permanently Affiliated

## PRINCIPAL'S MESSAGE



#### Greetings!

#### by Dr. J. Maheswaran

It is my pleasure to congratulate the Editorial Board members of our Newsletter for their efforts in bringing out this issue in a nice manner. After deciding the mode of issue of our Newsletter as monthly from quarterly mode, this is the first issue. We are happy in noting down the achievements of our faculty and students. With the support and good cooperation of our staff members and guidance of the Management, we have successfully conducted even semester examinations May/June 2023 and finalised the II year UG and PG detailed curriculum and syllabi under Autonomous stream. I am happy to share that our IT Department received Recognised Research Centre status from Anna University and with this, we have eight recognized Research centres of Anna University in our College.

All the very best.

## **COLLEGE EVENTS**

#### STAFF TOUR - WONDERLA

Our college administration has planned a one-day staff tour to Wonderla, Cochin, on July 10, 2023, in the interest of employee motivation. Our entire team had a terrific time visiting the theme park, and the Wonderla management team had planned a spectacular entertainment programme in their auditorium that evening. The tour was enjoyed by 240 staff members in all.





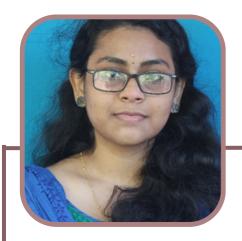
To invoke the blessings of the Almighty at the beginning of the academic year 2023-2024, a Holy Mass was conducted on 17th July, 2023 with the theme "Engineers in Theocracy Formation". Rev.Fr.Dr.M.Maria William, Correspondent, Rev.Fr.M. Francis Xavier, Bursar, Rev.Fr.Jeya Prakash, Correspondent, St.Xavier's Nursing College, Rev.Fr.Primas Singh, Correpondent, Morning Star polytechnic College and Rev.Fr. B.Sargin Rubas, Director, HilTek Robotic Centre jointly blessed the Celebration.



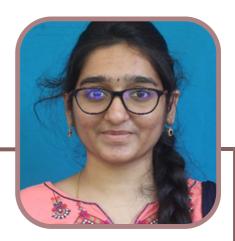
## **HOLY MASS**



## STUDENTS ACHIEVEMENTS







STUDENTS PLACED IN ONE YES INFO TECH Salary: 8 Lakhs per Annum

- Our College NCC cadet **Anish D S** got second prize in firing competition held at Scott Christian College on 20.07.2023.
- The **Department of Information Technology** is recognized as a Research Centre by Anna University, Chennai

## **Academic Activities**

#### Finance Committee MEETING

The second Autonomous Finance Committee meeting was held on July 22, 2023. Dr.S. Sidhardhan, Principal, Government College of Engineering, Tirunelvelli, participated as an Anna University Nominee.Rev. Fr. Dr. M. Maria William, Correpondent, Rev. Fr. M. Francis Xavier, Bursar, Dr. J. Maheswaran, Principal, Dr. V. Christus Jeya Singh, Vice Principal, Dr. A. Milton, CoE Mrs. Suguna, Head, MBA,Dr. Babima, Assistant Professor, MBA, and office superintendent Mr. P. T. Justin Thiraviam attended the meeting







## Academic Council MEETING

The Second Academic council meeting was conducted on July 15, 2023, at 10 a.m. in Einstein Seminar Hall, SXCCE. The Chairman of the Academic Council, Dr. J. Maheswaran (Principal), presented the minutes of the first Academic Council meeting and the action taken report, suggestions, and recommendations offered by the members of the first Governing Body meeting, which was held on February 18, 2023. The Member Secretary, Dr. R. P. Anto Kumar (Dean-Academics), presented the various Naan Mudhalvan courses and Tamil courses that are included in the curriculum of various U.G. programmes as per the directions of Anna University and the Government of Tamilnadu. Finally, the Correspondent, Rev. Fr. Dr. M. Maria William, thanked all the members of the Academic Council.

Dr. J. Krishnamoorthi, Professor and HoD, Department of Metallurgical Engineering, PSG College of Technology, Dr. N. Shenbaga Vinayaga Moorthi, Professor and Dean, Anna University Regional Tirunelveli, and Dr. S. Padmavathi, Professor, Department of Information Campus, Technology, Thiagarajar College of Engineering, participated as Anna University Nominees. Dr. Micheal Gromiha, Professor, Department of Bio Tech, IIT Madras, Dr. R. Justin Joseyphus, Professor &Head Department of Physics, NIT, Trichy, Dr. Selvam Jesaih Professor & Principal, Faculty of Management Studies, Sri Ramachandra Institute of Higher Education and Research, Mr. Arul Jerald Prakash, Former Director, Kerala State Science & Tech Museum and Planetarium, Mr. Roy Antony Arnold, Senior Consultant, Infosys Ltd, Mr. Thomas Franco, Social Activist and Banker, Ex. All India State Bank Officers' Federation participated as nominee of governing body, Correspondent, Bursar, Deans and all the HoDs attended the meeting.



## Governing Body MEETING

The second Autonomous Governing body meeting was held on July 29, 2023. Dr. K. Arul Prakash, Professor, Department of Applied Mechanics, IIT, Madras and Dr. P. subah Karuvelam, Professor, EEE,GCE, Tirunelveli Participated as UGC and Anna University Nominee respectively. Dr. A. Reena Evancy, Principal, St. Xavier's Nursing College and Dr. V. Selvam participated as management Nominee. Rev. Fr. Dr. M. Maria William, Correspondent, Rev. Fr. M. Francis Xavier, Bursar, Dr. J. Maheswaran, Principal and all the Deans attended the meeting.

## All faculty & Staff meeting

An all-faculty meeting was conducted on July 17, 2023, at 9:30 a.m. in the Conference Hall, to commemorate the start of the academic year 2023-2024. Principal Dr. J. Maheswaran introduced the newly appointed faculty members and explained the instructions and new benchmarks. The Correspondent Dr. M. Maria William greets and appreciates all the faculty members and gives some guidelines to conduct classes in an effective manner.

An all-staff meeting was conducted on July 17, 2023, at 2.30 p.m. in the Einstein Seminar Hall.



- On July 13, 2023, an **academic administrative meeting** was conducted for finalizing the Benchmarks for 2023-2024.
- The Faculty and Staff Development Committee meeting on July 20, 2023, at the Board Room to review the activities conducted during the academic year 2022-2023 and to plan staff development training for the academic year 2023-2024. Rev. Fr. Dr. M. Maria William, Correspondent, Dr. J. Maheswaran, Principal, and all the deans attended the meeting.





MCA farewell was conducted on July 13, 2023, in the second MCA classroom at 10 a.m. in the presence of our respected Correspondent, Rev. Fr. Dr. M. Maria Dr. William, Principal, and our Maheswaran. The Correspondent and the Principal praised the students wholeheartedly extended their wishes. All of the faculty members contributed to the beauty of the day by sharing their extensive knowledge and valuable advice. Finally, all the students shared their experiences here on campus.



## Seminar on Innovative Teaching Practices

Dr. Suja A. Alex, Assistant Professor, Department of Information Technology delivered a seminar on "Innovative Teaching Practices" to all the faculty members of SXCCE on 17-07-2023. This talk addressed the need for the design of Instruction, and various innovative teaching strategies to enrich the learning outcomes by incorporating the needs of students and the learning environment.

## **Faculty Development Program**





## Naan Mudhalvan Faculty Development Program

Naan Mudhalvan, TSDC organized faculty development programmes for the upcoming 2023-2024 Odd semester Courses had been identified by Anna University Expert Committee to be offered to the Engineering students across Tamil Nadu. In this regard Naan Mudhalvan team identified our college to host the following FDPs.

- An FDP on "Industry 4.0 Digital Twin" was conducted from 24.07.2023 to 28.07.2023. Dr. Vijaya Rajeswaran, Mr S.R. Nishanth and Mr. M.Tamil from Vi Microsystems Pvt.Ltd were the resource persons. Four members from various Engineering colleges from Kanyakumari, Tirunelveli, Tuticorin and Tenkasi districts attended the programme.
- An FDP on "Devops" was conducted from 24.07.2023 to 28.07.2023. Ms. A.Sylvia from Guvi Geek Pvt.Lid was the resource person and Mr. S.K.Vigneshwar from Guvi Geek Pvt.Lid coordinated the event from the industry side. Six faculty members from various Engineering colleges from Kanyakumari, Tirunelveli, Tuticoring and Virudhunagar districts attended the programme.
- An FDP on "Surface Modelling" was conducted from 24.07.2023 to 28.04.2023. Mr.G. Vergin Vino from TANCAM was the resource person. Eight faculty members from various Engineering colleges from Kanyakumari, Tirunelveli, Tuticorin and Tenkasi districts attended the program.
- An FDP on "Integrated Building Services" was conducted from 24-7-2023 to 28-7-2023 in our campus. Dr.Shankar from L&T, was the resource person. Seventeen faculty members from various Engineering colleges from Kanyakumari, Tirunelveli, Tuticoring and Tenkasi districts have attended the programme.



- An FDP on "Design of ON/OFF Grid Solar PV System" was conducted from 24-7-2023 to 28-7-2023 in our campus. 10 participants from various colleges within Nagercoil and Tirunelveli zone participated in this course. The course included theory as well as practical sessions every day. On the first day, Dr.Rajkumar, L&T explained about the solar pv system in the foornoon session and corresponding lab sessions in the afternoon sessions. MATLAB and SAM software was used for designing and analyzing ON/OFF Grid Solar PV System. Using Matlab software, the participants designed basic structure of solar system. SAM software has been used to compare the detailed parameters of solar system.
- An FDP on "Drone Design and Testing" was conducted from 24.07.2023 to 28.07.2023. Mr. Naveen, Mr Akash and Mr. Maha Krishnan from Vaayusasthra Aerospace were the resource persons. Sixteen faculty members from various Engineering colleges from Kanyakumari, Tirunelveli, Tuticorin and Tenkasi districts were attended the programme.

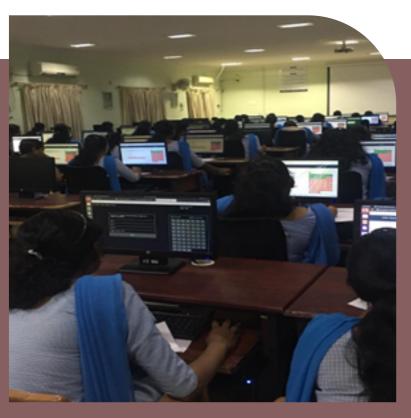
## **Placement Activities**





## **Placement Trainings**

- A Five day Quantitative Aptitude Training was conducted by Mr. Prince Ebenezer, SMART Training Resources India Pvt, Ltd was organized for the IV Year B.E/B.Tech students from 3rd to 7th July 2023.
- A Six day **Java Programming Training** was organized by Mr. S. Rama Subramanian, Founder & CEO, Raman Code Academy, Madurai was organized for the IV Year B.E/B.Tech students from 28th to 30th June & 12th to 14th July 2023.
- A Four Day Soft Skills, Resume Writing, Interview Skills Training was organized by Mr. Roshan Roy, TalenTus HR Solutions Pvt Ltd, Cochin was organized for IV Year B.E/B.Tech students from 18th to 21st July 2023.



## Placements

- On Campus Placement Drive was conducted by OneYes InfoTech Solutions for B.E/B.Tech & MCA M.E on 25/07/2023. Eligibility criteria for the drive was 60% and above in 10th, 12th and in degree. Salary package is Rs.8 Lacs per Annum (CTC) .3 students got selected.
- An off Campus Placement Drive by **Tessolve** was conducted for B.E-ECE and EEE on 31/07/2023 in Francis Xavier Engineering College, Tirunelveli. Eligibility criteria was 60% and above in 10th, 12th Std & 6.5 in UG Degree. Salary package is Rs. 6.0 LPA (CTC).

#### April/May 2023 Phase-I Examinations:

April/May 2023 Phase-I valuation of End Semester theory examinations of Fourth, Sixth and Eighth semester B.E./B.Tech Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Information Technology and Mechanical Engineering and fourth semester M.B.A. was conducted from 04-07-2023 to 07-07-2023.

- Fourth Result passing Board Meeting to pass the End semester results of Fourth, Sixth and Eighth semester B.E./B.Tech and fourth semester M.B.A. programmes was conducted on 21-07-2023.
- Results of April/May 2023 Phase-I examinations were published on 22-07-2023.



#### April/May 2023 Phase-II Examinations:

- End semester practical examinations of second semester M.E. Construction Engineering and Management, Structural Engineering, Computer Science and Engineering, Applied Electronics, Communication Systems, Medical Electronics and Energy Engineering, Master of Business Administration and Master of Computer Applications, and fourth semester Master of Computer Applications were conducted from 03-07-2023 to 07-07-2023.
- End semester theory examinations of second semester M.E. Construction Engineering and Management, Structural Engineering, Computer Science and Engineering, Applied Electronics, Communication Systems, Medical Electronics and Energy Engineering, Master of Business Administration and Master of Computer Applications, and fourth semester Master of Computer Applications are being conducted from 14-07-2023 to 02-08-2023. Fifth prevaluation board meeting is scheduled to be conducted on 01-08-2023. Valuation is scheduled to be conducted from 02-08-2023 to 04-08-2023.
- M.C.A. project viva-voce examination is scheduled to be conducted from 02-08-2023 to 04-08-2023.
- Fifth Result Passing Board meeting is scheduled to be conducted on 14-08-2023.

#### **April/May 2023 Phase-III Examinations:**

- End Semester Practical examinations of second semester B.E./B.Tech Artificial Intelligence and Data Science, Civil Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Information Technology and Mechanical Engineering and fourth semester M.E. Construction Engineering and Management, Structural Engineering, Computer Science and Engineering, Communication Systems, Medical Electronics and Energy Engineering were conducted from 24-07-2023 to 31-07-2023.
- End semester theory examinations are scheduled to be conducted from 07-08-2023 to 8-08-2023
- M.E. project viva-voce examinations are scheduled to be conducted on 25-08-2023.



#### IQAC MEETING

Internal IQAC meeting was conducted on July 6, 2023, to draft the Benchmarks and action plan for the academic year 2023–2024.

## **Cell Activities**

## Tree Plantation



Tree plantation event was conducted on 14/07/2023 to reduce the carbon foot print of the college by planting more trees. Rev. Fr. Dr. M. Maria William, Correspondent of SXCCE presided the tree planting event. Dr. J. Maheswaran, Principal of SXCCE and Dr. V. Christus Jaya Singh, Vice-Principal of SXCCE has accompanied this event. Mr.S.Titus, Skilled assistant of Electronics and Communication Engineering shared his 17 years of tree plantation experience with students. Plant raising bags were distributed to the students and asked to return the bags with new saplings. Next, the Correspondent, Principal, Vice principal, Professors and student members of ECO club planted tree saplings inside the campus. At the end of the event, the importance of planting more trees to avoid global warming and maintain good climatic conditions were explained to the members of the Eco Club.

## **Seminar on Universal Values**

SXCCE ACM Student Chapter (124771) organized a seminar on the topic "Universal Values" on 28th July 2023. Mrs. M. Tamilarasi, M.Sc, M.A, M.Ed, M.Phil., PG Assist (Retd), Trichy acted as a resource person. She shared 12 values which starts with the Tamil vowels, that reflect the inherent worth and dignity of every individual and govern their behaviour and interaction with others. She explained the 26 universal values each corresponding to a letter of the English alphabet, which are believed to be universally applicable that can help individuals and societies promote understanding, respect and cooperation leading to a brighter and more inclusive future for all. She has also skilfully utilized motivational videos to boost the participants' self-confidence during the session.



## Prototype/Process Design and Development



Institution's Innovation Council of St Xavier's Catholic College of Engineering organised Session on "Prototype/Process Design & Development-Prototyping" on 21st July 2023 at 10.30 am. The speaker for the session was Mr. Collins Mony, Product Manager at Harley-Davidson. The webinar began with a welcome note by Dr. T.S Sheela Shiney, IIC Convenor. The webinar's objective is to gain insights in a design thinking process to carry out some form of prototyping. Faculty members and 83 students participated and gained knowledge about producing an early, inexpensive, and scaled down version of the product in order to reveal any problems with the current design.

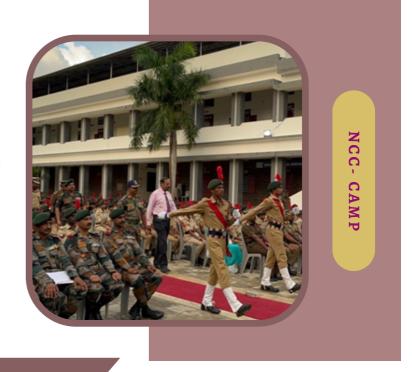
• The outreach cell members have involved in donating used dresses, unused household products and old books for school students to the tribal people in and around Peachiparai, and also to the remote villages located near Vadakankulam on 30.07.2023

# Lean Start-up and Minimum Viable Product/Business



Institution's Innovation Council of St Xavier's Catholic College of Engineering organised Session on" Lean Start-up and Minimum Viable Product/Business" on 25th July 2023 at 2.30 pm. The speaker for the session was Mr.Yokees Kumar, Team Learning, HR-L &T MINDTREE. The webinar began with a welcome note by Mr. M Anto Xavier Roche, IIC President. The webinar's objective is to develop products or services with the minimum amount of effort and do the iterative release to shorten the life cycle. Faculty members and 145 students participated and gained knowledge about Lean Start-up.

Annual Training Camp was conducted at Scott Christian College, Nagercoil, from 11-07-2023 to 20-07-2023. Eleven cadets including 3 SW cadets and the ANO of our college participated in this camp. The Opening Address was delivered by the Camp Comdt Col C P Unni Krishnan on 12th July 2023. Early morning Physical Training and Karata training were given to all the cadets. Drill with and without weapon was conducted to all the cadets. Weapon training classes were handled. Common and Special subjects were handled by the ANO's and PI staff respectively. All the senior division and senior wing cadets got opportunity to fire using .22 rifle. Our cadet Anish D S got second prize in firing competition. Cadets exhibit their talents during the cultural program.



## Research Activities

## Journal Article published

- Judson D, Annie Portia A, Agnel Livingston L G X, "Low-complexity Joint Equalization and CFO Compensation in Uplink SC-FDMA NOMA System under Different Power Allocation Strategies", July 2023, https://doi.org/10.1002/ett.4833, John Wiley-Emerging Transactions on Telecommunications.
- Merin Joshiba, Judson D, "An Eye Bolt Shape Slotted microstrip Patch Antenna Design utilizing a substrate-integrated waveguide for 5G systems", vol. 64, NO. 4, 943-955, 2023, Taylor & Francis-Automatika -Journal for Control, Measurement, Electronics, Computing and Communications.
- V. Vijimon Moni, Judson D, X. Ascar Davix, J. John, "Energy Management and Optimal Allocations of Resource in Ultra-Dense 5G Networks Using OGDNG Theory with GWO Method", July 2023, DOI: 10.1007/s11277-023-10610-1, Springer-Wireless Personal Communication.
- **Dr.M.Marsaline Beno,**IOT based adjustment mechanism for direct reference model adaptive IMC to support voltage sag in DFIG wind, Elsevier -Measurement: Sensors, Vol 27, 2023
- Dr. Shanthos Kumar, Mr. Tittu George D.X., Mr.Michel Raj and Mr.Anitto Joe Xavier have published a patent in the title of "ALUMINIUM A356 ALLOY REINFORCED WITH ALUMINA PARTICLES FUNCTIONALLY GRADED COMPOSITE FABRICATED BY HORIZONTAL CENTRIFUGAL CASTING"





## **Research Team Visits**

Project team from St. Xavier's Catholic College of Engineering visited **Kerala Agricultural University** on 24/07/2023 for joint research in Agro Technology. The team met Dr.Stephen Roy, Dean of the University. Dr. M.Marsaline Beno, Dr.Seldev Christopher, Dr.Sahaya Stalin Jose, Dr. Antony Forster Raj and Dr.Ajith J Kings participated in this Research Field visit.

Our Project team Dr. M.Marsaline Beno, Dr.Seldev Christopher, Dr. Antony Forster Raj, Dr.Ajith J Kings, Dr.Preethi and Prof.Anvar Rajesh has visited the **College of Agriculture and Research**, Vellayani, Thiruvanathapuram, for research field visit on 31/07/2023. The team learnt about Agronomy, Soil Science, Horticulture, Plantation Crops, Agricultural Statistics, Agricultural Engineering Etc.,

#### As Resource Persons

- Dr.M.Marsaline Beno, Professor & Dean Research has acted as a resource person for a Workshop on Innovative Technologies in Energy Auditing and Management on 23.07.2023 organized by Sri Vishnu Engineering College for Women, Bhimavaram, Andhra Pradesh.
- Dr. Y.Balto, Assistant Professor, Department of mechanical engineering has acted as a resource person for an one day seminar organized by Science and Humanities Department of Cape Institute of Technology on 13th July, 2023 and delivered the technical talk on "Insights of Power Generation" to the first year engineering students
- S. Caroline, A.Anitha, J.Sam Alaric presented a paper on the title "PREVENTION OF FIRE AND HUNTING IN FOREST USING MACHINE LEARNING FOR SUSTAINABLE FOREST MANAGEMENT" in 2023 National Conference On Information Communication & Intelligent Systems June 23 and 24, 2023 Department of Electronics, Toc H Institute of Science and Technology Ernakulam
- Dr.S. SELVIN PRADEEP KUMAR, AP, ECE & Dr. M. Antony Joans Kumar, System Administrator completed their Ph.D. in Anna University, Chennai.

## **Editors**

Mrs. J. Jencewin, AP/MCA | Dr. Y.R. Annie Bessant, AP/ECE | Mrs. P. Ajitha, AP/CSE | Dr. J. P. Vidhya, AP/HSc | Dr. Y. Balto | Mr. L. Lucas, AP/HSc | Mrs.S.Viji Chitra AP/MBA | Mrs. T.M. Angelin Monisha Sharean, AP/IT | Mrs.S. Shiny/EEE | Ms.C.M. Flora Dani, AP/CIVIL