



## Report on Workshop “**Signal Processing using Open Source Tools**”

Organized by the Department of Electronics and Communication Engineering in  
association with ICFOSS

The Workshop on ‘**Signal Processing using Open Source Tools**’ was conducted on 24<sup>th</sup> & 25<sup>th</sup> November 2018 at Mar Baselios Christian College of Engineering and Technology, Peermade. The Resource Person for the workshop was Prof. Shanu N, Assistant Professor from College of Engineering, Karunagappally. The participants of the Workshop are BTech Final year Students (43 students) and Third year Students (10 students). The duration of the Workshop was two days (12 Hours) and main objectives are: i) Introduction to Scilab & Octave, ii) the development of Scilab & Octave programs and iii) the development of models in Scilab & Octave.

The contents of the Workshop are:

### **Scilab**

Command window, Roots of polynomials, Evaluation of polynomials, Plots and subplots, Mathematical operations, Script and function files, Matrices, Programs related to projects.

### **Octave**

Getting into Octave, Octave desktop environment, Variables and assignments, Vectors and matrices, Script and functions, Selection statements and loop, Octave programs, Plot, Programs related to audio, Image processing and other projects.

Foss Cell was also inaugurated in the college by Prof. Shanu on November 24, 2018. The Foss Cell was formed with the following Coordinators.

1. Prof. Geethos Ninan, FOSS Cell Coordinator, ECE Dept.
2. Prof. Rahul Ajith Kumar, Coordinator, CSE Dept.
3. K Sujith Thomas, Student Coordinator

Prof. Elias Janson K, HoD, Department of Electronics and Communication Engineering is appointed as the Advisor to the FOSS Cell. The Cell has 12 other students volunteering for the further activities.



### Programme Schedule

| <b>Date</b> | <b>Time</b>         | <b>Topic</b>  |
|-------------|---------------------|---|
| 24.11.2018  | 09.00 am – 09.45 am | <b>FOSS Cell &amp; Workshop Inauguration</b>  |
|             | 09.45 am – 10.00 am | Tea Break   |
|             | 10.00 am – 12.30 pm | <b>Command window, Roots of polynomials, Evaluation of polynomials, Plots and subplots, Mathematical operations</b>           |
|             | 12.30 pm – 01.15 am | Lunch Break   |
|             | 01.15 pm – 02.50 pm | <b>Script and function files, Matrices</b>  |
|             | 02.50 pm – 03.00 pm | Tea Break   |
|             | 03.00 pm – 04.15 pm | <b>Programs related to projects</b>   |
| 24.11.2018  | 10.00 am – 12.30 pm | <b>Getting into Octave, Octave desktop environment, Variables and assignments, Vectors and matrices, Script and functions</b> |
|             | 12.30 pm – 01.15 am | Lunch Break   |
|             | 01.15 pm – 02.50 pm | <b>Selection statements and loop, Octave programs, Plot</b>   |
|             | 02.50 pm – 03.00 pm | Tea Break   |
|             | 03.00 pm – 04.15 pm | <b>Programs related to audio, image processing and other projects</b>   |
|             | 04.15 pm – 04.30 pm | <b>Workshop Closing Ceremony</b>  |



# MAR BASELIOS CHRISTIAN

## COLLEGE OF ENGINEERING & TECHNOLOGY

KUTTIKANAM, PEERMADE

### Photographs

