**ACADEMIC PLAN 2018-19**

**SYJC – ELECTRONICS PRACTICALS**

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| **MONTH** | **PART 1** | **PART 2** |
| MID JUNE TO JULY | * Monostable Multivibrator
* Astable Multivibrator
* Zener diode as Voltage regulator
* Voltage regulator using IC317
 | * Study of Basic Logic Gates
* Verification of Demorgan’s Law
* Study of NAND and NOR gates as Universal Basic building Blocks
* Implementation of Logic Equation
* Half Adder using Gates
 |
| AUGUST | * Inverting Amplifier using OPAMP with DC input voltage
* Inverting Amplifier using OPAMP with AC input voltage
* Non Inverting Amplifier using OPAMP with DC input voltage
* Non Inverting Amplifier using OPAMP with AC input voltage
 | * Full Adder using Gates
* Study of RS FlipFlop using NAND and NOR gates
* Study of EXOR gate and its use as a Controlled Inverter
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| SEPTEMBER | * Study of OPAMP as Adder
* Study of OPAMP as Subtractor
 | * Study of IC 7483
* Study of Decoder using IC 7447
* Study of Encoder using IC 74147
 |
| OCTOBER | * OPAMP as Schmitt Trigger
* C.R.O and its application
* Study of Photo Relay Circuit
 | * Study of Multiplxer using IC 74153
* Study of Demultiplxer using IC 74139
* Study of Decade Counter using IC 7490
 |
| NOVEMBER | * Study of OPAMP as Comparator
* Study of OPAMP as Buffer
 | * Study of Digital to Analog Converter using R-2R Ladder
* Study of Diode Matrix ROM
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| DECEMBER | REVISION | REVISION |
| JANUARY | Prelim practical exam | Prelim practical exam |

**ACADEMIC PLAN 2018-19**

**FYJC – ELECTRONICS PRACTICALS**

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| **MONTH** | **PART 1** | **PART 2** |
| AUGUST | * Study of Multimeter
* Study of CRO and its application
* Study of various types of resistors
 | * Study of Half wave rectifier
* Study of Full wave rectifier
* Study of Bridge rectifier
 |
| SEPTEMBER | * Construction of CE Amplifier on bread board
* Study of charging and discharging of a capacitor
* Study of effect of different cores of an inductor
 | * Study of Diode Characteristics
* Study of LED Characteristics
* Study of Transistors Characteristics
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| OCTOBER | * Soldering Iron
* Verification of Thevinen’s Theorem
* **Terminal Practical Examination**
 | * Study of Transistor as Switch
* Study of CE Amplifier
* **Terminal Practical Examination**
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| NOVEMBER | **DIWALI VACATION** | **DIWALI VACATION** |
| DECEMBER | * Verification of Maximum power theorem
* Study of various types of switches
 | * Study of Colpitt’s Oscillator
* Study of UJT Characteristics
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| JANUARY | * Study of Relays
* Construction of Astable Multivibrator using IC 555 on PCB
 | * Study of FET Characteristics
* Study of Burglar alarm
 |
| FEBRUARY | **REVISION** | **REVISION** |
| MARCH | **Final Practical Examination** | **Final Practical Examination** |