**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 |
| 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 |
| 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 |
| OCTOBER | * Soldering Iron * Verification of Thevinen’s Theorem * **Terminal Practical Examination** | * Study of Transistor as Switch * Study of CE Amplifier * **Terminal Practical Examination** |
| 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 |
| 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** |