

**K. J. SOMAIYA JR. COLLEGE OF SCIENCE & COMMERCE****ACADEMIC PLAN 2019-20****S. Y. J. C. SYLLABUS COMPLETION REPORT 2019-20**

<b>SUB: ELECTRONICS -I</b>		<b>SUB: ELECTRONICS -II</b>	
<b>MONTH</b>	<b>CHAPTER NAME</b>	<b>MONTH</b>	<b>CHAPTER NAME</b>
JUNE	POWER SUPPLIES	JUNE	NUMBER SYSTEMS
JULY	OPERATIONAL AMPLIFIERS	JULY	LOGIC GATES
AUG.	INSTRUMENTS	AUG.	MULTIPLEXER, DEMULTIPLEXER, ENCODER &
SEPT.	INTEGRATED CIRCUITS	SEPT.	FLIP FLOPS, COUNTERS & REGISTERS
OCT.	TRANSDUCERS	OCT.	COMPUTER FUNDAMENTALS
NOV.	MODERN ELECTRONIC COMMUNICATION-I	NOV.	LOGIC FAMILIES
DEC.	MODERN ELECTRONIC COMMUNICATION-II	DEC.	ANALOG TO DIGITAL & DIGITAL TO ANALOG CONVERTER
JAN.	PRELIMS	JAN.	PRELIMS
FEB.	REVISION	FEB.	REVISION

## SYJC – ELECTRONICS PRACTICALS

MONTH	PAPER - 1	PAPER - 2
MID JUNE TO JULY	<ul style="list-style-type: none"> <li>· Monostable Multivibrator</li> <li>· Astable Multivibrator</li> <li>· Zener diode as Voltage regulator</li> <li>· Voltage regulator using IC317</li> </ul>	<ul style="list-style-type: none"> <li>· Study of Basic Logic Gates</li> <li>· Verification of Demorgan's Law</li> <li>· Study of NAND and NOR gates as Universal Basic building Blocks</li> <li>· Implementation of Logic Equation</li> <li>· Half Adder using Gates</li> </ul>
AUGUST	<ul style="list-style-type: none"> <li>· Inverting Amplifier using OPAMP with DC input voltage</li> <li>· Inverting Amplifier using OPAMP with AC input voltage</li> <li>· Non Inverting Amplifier using OPAMP with DC input voltage</li> <li>· Non Inverting Amplifier using OPAMP with AC input voltage</li> </ul>	<ul style="list-style-type: none"> <li>· Full Adder using Gates</li> <li>· Study of RS FlipFlop using NAND and NOR gates</li> <li>· Study of EXOR gate and its use as a Controlled Inverter</li> </ul>
SEPTEMBER	<ul style="list-style-type: none"> <li>· Study of OPAMP as Adder</li> <li>· Study of OPAMP as Subtractor</li> </ul>	<ul style="list-style-type: none"> <li>· Study of IC 7483</li> <li>· Study of Decoder using IC 7447</li> <li>· Study of Encoder using IC 74147</li> </ul>
OCTOBER	<ul style="list-style-type: none"> <li>· OPAMP as Schmitt Trigger</li> <li>· C.R.O and its application</li> <li>· Study of Photo Relay Circuit</li> </ul>	<ul style="list-style-type: none"> <li>· Study of Multiplexer using IC 74153</li> <li>· Study of Demultiplexer using IC 74139</li> <li>· Study of Decade Counter using IC 7490</li> </ul>
	<b>Terminal practical exam</b>	<b>Terminal practical exam</b>
NOVEMBER	<ul style="list-style-type: none"> <li>· Study of OPAMP as Comparator</li> <li>· Study of OPAMP as Buffer</li> </ul>	<ul style="list-style-type: none"> <li>· Study of Digital to Analog Converter using R-2R Ladder</li> <li>· Study of Diode Matrix ROM</li> </ul>
DECEMBER	REVISION	REVISION
JANUARY	Prelim practical exam	Prelim practical exam
FEBRUARY	Board practical exam	Board practical exam