

GOVT. T.ROMANA COLLEGE

**SYLLABUS FOR CERTIFICATE COURSE IN MOBILE SERVICING & REPAIRING
(Funded by UGC under Career Oriented Programmes)**

Unit – I : INTRODUCTION, CONCEPT, BASIC INFORMATION

S/N	Subjects/Topics to be Taught	Time
1.	Introduction & Types of Mobile Phone Technology	3 hrs
2.	Concept of Mobile Phone	5 hrs
3.	Introduction of GSM & CDMA Mobiles	6 hrs
4.	Basic Information about technical terms – Conductors, Insulators, Semi-conductors, Current, Voltage, Resistance, Multi-meter, AC/DC, Ohms Law etc	8 hrs
5.	Meaning of Resistors & its types; Meaning of Capacitors & its types; Meaning of Diodes & its types; Meaning of Transistors & its types; Meaning of Rectifier Circuits & its types.	15 hrs
6.	SIM Card: Functions, features and uses of SIM Card	5 hrs
7.	Internal Parts & Accessories of Mobile Handset; Tools and Equipments required for repairing	8 hrs
8.	Names of different ICs; Uses of Blower(Smd) etc	8 hrs
9.	Importance & Uses of different Soldering tools; uses of Screw Driver set, Brush, Tweezers, etc	8 hrs
10.	Use of BGA Kits, Jumper wire, Soldering wire, Blade, Cutter, PCB stand etc	8 hrs
11.	Use of Multi-meter, Use of Battery Booster, Use of Jhatka Machine etc	5 hrs
12.	Use of Magnifying Glass; How to check parts, jumper, ICs etc by using Magnifying Glass	6 hrs
13.	Assembling & Disassembling/Dismantling of different Mobile handsets	5 hrs
14.	Information about Phone setting, Network Services, Security settings, LCD setting etc	6 hrs
15.	Features & functions of Mobile phones – Call option, formatting, Phone book, Secret codes, etc	6 hrs
16.	Technical terms/Abbreviations/Codes used in Mobile Phones	6 hrs

UNIT – II : IMPORTANT PARTS OF MOBILE PHONES

17.	Introduction of ICs (Integrated Circuits) : Different types of ICs and its working; Fault finding & repairing of ICs	8 hrs
18.	Basic parts of Mobile Phone & their functions; Important parts & functions of Network Section	8 hrs
19.	Important parts & functions of power station; sound system; antenna etc	12 hrs
20.	Repairing & maintaining Mobile Battery	6 hrs
21.	Circuit Diagrams of Mobile Phone	6 hrs
22.	Safety and Precautions	6 hrs

UNIT – III : SOFTWARE

23.	Introduction of Mobile Software – PC Suit software, Bluetooth, Infrared, Card Reader, UFS Box etc	6 hrs
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UNIT – IV : REVISION & PRACTICAL

24.	Revision – all chapters/theory; Conduct of Tests etc	20 hrs
25.	Practical Classes	120 hrs

Total Number of Theory Class : **160 Hrs**
Total Number of Practical Class : **120 Hrs**
Total Number of Classes : **300 Hrs**