Name of the Program(s): - Diploma in Mobile Phone Repairing and Maintenance (DMPRM),
Advanced Diploma in Mobile Cell Phone Repairing and Maintenance (ADMCPRM),
Certificate in Mobile Phone Repairing and Service (CMPRS),
Certified Mobile Phone Repair Technician (CMPRT).

Are you interested in earning your Diploma in Mobile Cell Phone Repairing and Maintenance (DMPRM) or ADMCPRM or Mobile Phone Repair Technician (CMPRT) Professional degree? (DMPRM or CMPRT) ™ certification, but you're unsure how to start the process? While this is a great step for your individual career, it doesn't have to be a complex one really if you study from GEPEA. This is the ultimate guide on DMPRM™ or CMPRT™ certification and it can be your easy roadmap for navigating this process. You may explore some common questions you might have about international Mobile Phone Repairing and Maintenance or Cell Phone Repair Technician certification holder.

Why Study Mobile Phone Repairing and Maintenance?

Very easy to learn, The training period is short, It is an ideal option for the gadget loving people, Professional technician get a lot of respect to the industry and among the customers, It does not require a huge investment, Also, after the course completion from GEPEA you may have wide options to serve as a full time technician, starting your own practice, You may work some extra time after your main work hours, You may start your own business (repair center), and many other scopes available for the mobile phone technicians.
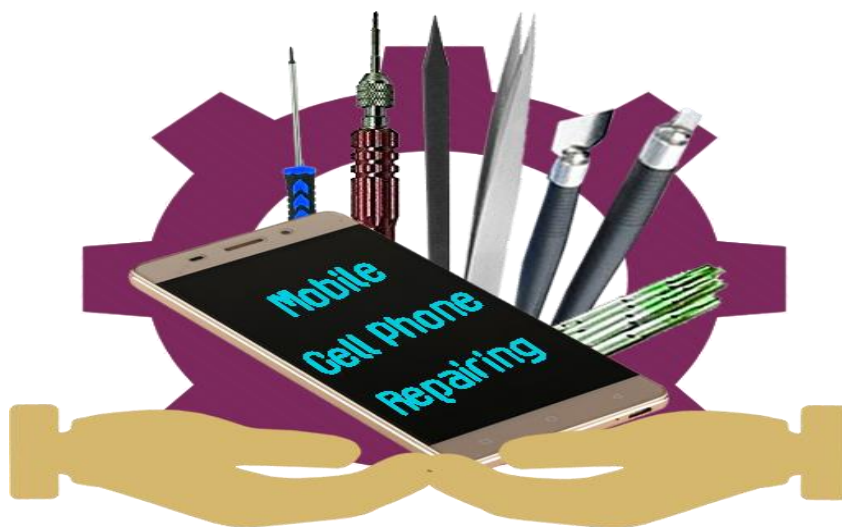
"People respect these professionals because they make it possible for them to use their mobile phones again"

What is Mobile Cell Phone Repairing and Maintenance?

Mobile cell phone repairing and Maintenance simply will work in the following areas:
1. Identify different types of mobile cell phones, 2. Recognize potential hazards in the repair of mobile cell phones, 3. Identify the parts of a mobile cell phone, 4. Use the correct hardware tools to repair mobile cell phones, 5. Assembly and disassembly a mobile cell phone, 6. Identify mobile cell phone faults and solve them.

MOBILE CELL PHONE REPAIRING AND MAINTENANCE OR MOBILE PHONE TECHNICAIN PROFESSIONAL TRANINGS

Training Hours: *60 hours or 80 hours.*

Program Duration: 4 Months (For Diploma) **or** 6 Months (for Advanced Diploma or Technician certifications).

Admission Requirements: A high school diploma or an associate degree in general science or science (or global equivalent), Secondary degree (high school diploma, associate degree, or the global equivalent).

Other Requirements: Any Science related degree or Vocational Training are needed to take this course, but have some extra skills using laptop/computer and internet, E-mail for communications will help, using electrical tools, mechanical tools etc. would be an added advantage.

Training Delivery: The course duration will comprise 100 hours or 120 hours of self-study home based or lecture based delivery. The 100 or 120 hours will be delivered in 12 to 16 sessions online distance learning based on given course materials.

Syllabus Outline

Serial No.	Syllabus component	Assignment **TMA** (Tutor Mark Assignment) or **Case Study**	Board Questions (**OBS** = Open Book System) Exam.	**MCQ** (Multiple Choice Questions) 10 Questions (each @ 2 marks)
	16 parts will count 5 hours each (16 parts/courses x 5 hours study each = 80 hours total) + Project Exercises Minimum 20 hours **= Grand Total 100 Hours. OR** **16 parts will count 6 hours each** (16 parts/courses x 6 hours study each= 96 hours total) + Project Exercises Minimum 24 hours **= Grand Total 120 Hours.**	**45**	**35**	**20**

1	**Diploma in Mobile Phone Repairing and Maintenance (DMPRM),** **Advanced Diploma in Mobile Cell Phone Repairing and Maintenance (ADMCPRM),** **Certificate in Mobile Phone Repairing and Service (CMPRS),** **Certified Mobile Phone Repair Technician (CMPRT).**	*100 Hours (Time) or 120 Hours (Time)*		
	SEMESTER -1	**45**	**35**	**20**
	1. Mobile Device Hardware/Introduction to Hardware & materials of Mobile Phones: Major types and makes of mobile devices • General smartphone structure and major hardware components; focus on – CPU/Chipset/SoC – Display/Touchscreen – Sensors Type of Devices Other Types of Mobile Devices Smartphone General Smartphone Structure Major Hardware Components **2. Mother Boards in 4G, 3G, GSM Phones** Mother Boards /Circuit Diagrams of various mobile phone brands. **3. Identification of different types of microchips & micro processors** Introduction to Microprocessors Introduction and evolution of microprocessors 2. Architecture of 8085 processor 3. Pin configuration of 8085 4. Bus organization 5. Basic instruction sets. **4. Introduction to MMC:** **Mobile-to-mobile convergence (MMC).** Mobile-to-mobile convergence (MMC) is a technology that facilitates the interoperability of mobile communications devices without the need for any fixed capabilities or proprietary service provider. In MMC, a single cellular telephone, smartphone or softphone-equipped device can switch automatically between Wi-Fi and cellular networks. And in other terms, MMC means, Multimedia Card (**MMC**) is a flash memory-based memory card standard. **MMC** is a popular storage media for digital cameras and other mobile devices. Mobile-to-mobile convergence (MMC) is an innovative technology that helps mobile devices connect with various kinds of networks and automatically switch between a cellular network and Wi-Fi connection without manual intervention. It provides a replacement for standard cellular and wireless solutions. MMC may be enabled on any mobile device with the appropriate hardware. For example, smartphones, softphone-equipped devices and cellular phones can use MMC to automatically switch between cellular and Wi-Fi networks.	*5 hours or 6 hours per subject*		

	### 5. Introduction to touch screen: What is a touchscreen? Touchscreen Equipment Why use a touchscreen? Styluses Gloves Touchscreen Keyguards ### 6. Assembling/Manufacturing of Cell Phones: **Mobile Phone Manufacturing Process** Concept and Prototyping Parts and Software Construction and Fabrication Mobile Phone Assembly Process ### 7. Unlocking of Cell Phones: Simple 4 steps to unlock your cell phone Step 1: Select Your Cellphone Service Step 2: Find Your IMEI Number Step 3: Order Your Unlock Phone Code Step 4: Enter The Unlock Code Source: www.Unlockbase.com Also, Unlocking your Phone, another methods ### 8. Pattern Locks: Pattern Lock of Mobile Phones Unlock Pattern Lock on Android Phone: For Example - https://drfone.wondershare.com/unlock/pattern-lock.html	*5 hours or 6 hours per subject*		
	## SEMESTER -2			
	### 9. Jumpering Techniques How to Jumper? Tools needed to Jumper: 1. Jumper wire 2. Precision Screwdriver 3. Soldering iron or Soldering Station 4. Solder wire 5. Blade cutter 6. Multimeter 7. Soldering flux 8. PCB holder 9. Tweezers http://www.mobilecellphonerepairing.com/how-to-jumper-in-mobile-phone-repairing.html ### 10. Trouble Shooting of the Cell Phones using Softwares **LESSON 01** Basic Information How Cellphone Works Learning with Block Diagram on How Basically Cell-phone works. **LESSON 02** Introduction To Basic Electronics Ohm's Law Series Circuit Parallel Circuit Identifying Electronics Components and Circuit Symbols Resistors Capacitors Transistors Diodes Fuse Coils & Inductors Crystal Oscillators RF & IF Amplifiers and Filters EMI and ESD Filters.	*5 hours or 6 hours per subject*		

	LESSON 03 Preparing the Proper Tools For Repairing Opening Tools and Tweezers Soldering and Desoldering Tools Muti Tester SMD Rework Stations DC Power Supply Cleaning Kits Reballing Kits Working Table Equipment. **LESSON 04** Safety Procedures and Proper Handling of Tools and Test Equipment on Cellphone Repair How To Use and Read a Multimeter Tester Test and Check up Procedures on Basic Electronics Components. **LESSON 05** Introduction to Reading Cellphone's Schematic Diagrams Identifying Component Symbols and Layout in Schematic Diagram, How to Identify Resistor's Symbols and Layout How to Identify Capacitor's Symbols and Layout, How to Identify Transistor's Symbols and Layout, How to Identify Diodes Symbols and Layout, How to Identify Coil Symbols and Layout, How to Identify Integrated Circuit Symbols and Layout, How to Identify DC to DC Voltage Drivers, Regulators and Converters Symbols and Layout, How to Identify EMI-ESD Symbols and Layout, How to Identify RF Filter Symbols and Layout, How to Identify Battery Cell Symbols and Layout, How to Identify Power Switch , Mouthpiece, Earpiece and Ringtones Speakers User Interface Symbols and Layout, How to Identify Clock Crystal Oscillator Symbols and Layout, How to Identify Fuse Symbol and Layout, How to Identify the Lines and Symbols on Schematic Diagram. **LESSON 06** How to Find and Locate Components on PC Board, How to Solder SMD Components Manually by Hand, How to Reball BGA Chips Manually by Hand Identifying and Familiarization of Common Mobile Phones, Components and Spare Parts Liquid Crystal Display LCD's Touch Screen Panels Microphones Micro Speakers Switches Charging Pins Antenna's Batteries Battery Connectors USB connectors, Understanding Major Integrated Circuits (IC) on Mobile Phones Power Management IC Application Processor Flash IC RAM IC, Basic Hardware Handling Procedures Proper Disassembling and Assembling Methods, How to Test Mobile phone Speaker, Buzzer or Ringer, How to Test Mobile phone Microphone or Mouthpiece How to test Mobile Phone Charger Voltage, How to Test Mobile Phone Vibra Motor, How to check Mobile Phone Battery Voltage, How to test Power ON OFF Switch Troubleshooting, How to Troubleshoot Not Charging Issues, How charging circuit works No Charging Response Charger Not Supported Not Charging, How SIM Circuits works Insert Sim Card Problem Invalid Sim Card How Keypad Circuits Works, How to Map and Trace keypads Lines Understanding The LED light Circuits Explanation on, How Audio Circuits work Mouthpiece Earpiece Buzzer Ringer Headset Vibra motor, How LCD Display Circuit Works Understanding, How RF circuit works, Basic Mobile Phones Hardware Repair Techniques, Basic on Software Handling, What is Flashing What is Unlocking.	*5 hours or 6 hours per subject*		

	11. **Best Android and iOS Repair Software for Your Phones or Tablets**
	
	3 Best Android and iOS Repair Software:
	   1. Tenorshare ReiBoot
	   2. dr.fone
	   3. iMyFone Fixppo
	      https://geekflare.com/mobile-repair-software/
	
	12. Cell Phone Operating Systems
	What are the different operating systems for mobile phones?
	Android (Google)
	iOS (Apple)
	Bada (Samsung)
	Blackberry OS (Research in Motion)
	Windows OS (Microsoft)
	Symbian OS (Nokia)
	Tizen (Samsung)
	https://www.g2.com/articles/mobile-operating-systems
	
	13. Top Mobile technologies
	Mobile Trends That Are Dominating-
	Artificial intelligence (AI) ...
	Location-based technology. ...
	Augmented reality. ...
	Syncing wearable technology with mobile devices. ...
	Revenue from mobile applications. ...
	Mobile devices syncing with homes. ...
	Enhanced mobile security. ...
	Small business mobile apps.
	Increased Mobile Payments
	Transportation Apps
	Virtual Reality
	Hybrid Apps
	Personal Mobile Devices in the workplace
	Biometrics Advancements
	https://www.quicksprout.com/mobile-trends/
	AND
	https://www.techfunnel.com/martech/mobile-technology/
	https://itchronicles.com/mobile/top-15-mobile-technology-trends-2021/
	
	14. Safety to be followed in Smart phones
	Safety Tips for Mobile Devices
	The first step is STOP. THINK. CONNECT.
	   1. Keep a Clean Machine
	   2. protect Your Personal Information
	   3. Connect with Care
	   4. Be Web Wise.
	   5. Be a Good Online Citizen
	      https://itsecurity.cuyahogacounty.us/pdf_ITSecurity/en-US/MobileDevicesSafetyTipsSTC.pdf
		5 hours or 6 hours per subject		

Part 1: Is Your Phone Being Used Against You? Part 2: If Your Phone Is Being Monitored Part 3: Ways to Increase Safety & Privacy https://www.techsafety.org/12tipscellphones Using Anti-Virus Software to protect your cell phone from hacking/malicious viruses.	*5 hours or 6 hours per subject*	

15. Tools and equipment used in mobile phone repairs

Mobile Repairing Tools Name List-

- Soldering Iron
- Soldering Station
- PCB Holder / PCB Stand
- Solder Wire
- Multimeter
- Antistatic Mat (ESD Mat)
- Microscope or Magnifier
- Magnifying Lamp
- Hot Air Blower
- Mobile Phone Repairing Tool Kit
- Precision Screwdriver
- Screwdriver Kit
- Mobile Phone Opener
- ESD-Safe Cleaning Brush
- Tweezers
- DC Power Supply
- Battery Booster
- Battery Tester
- Test JIG Box
- LCD Tester
- BGA Kit
- IRDA or Infrared Workstation
- Ultrasonic Cleaner
- Jumper Wire
- Solder Paste
- Paste Flux
- Liquid Flux
- Thinner or PCB Cleaner
- Blade Cutter
- Point Cutter
- Nose Cutter
- Cleaning Sponge
- Desoldering Wire
- Wrist Strap
- Antistatic Hand Gloves
- Antistatic Apron
- Smoke Absorber etc.

16. <u>The Life Cycle of Materials in Mobile Phones:</u> 1. Materials Extraction 2. Materials Processing 3. Manufacturing 4. Packaging & Transportation 5. Useful Life 6. End of Life What is a life cycle of Mobile Phone? **<u>OPTIONAL SUBJECTS (Any one subject can be chosen):</u>** **### New Mobile Phone Operating Systems** **### Advanced Mobile Phone Technology** **### Advanced Mobile Device Security** **FOLLOWING ADDITIONAL TASKS SHOULD HAVE TO DONE BY PARTICIPANTS OR STUDENTS:** a) Mobile Cell Phone Repairing and Maintenance or Mobile Phone Repair Technician Certification Test MCQ Questions answer practicing b) Mobile Cell Phone Repairing and Maintenance or Mobile Phone Repair Technician Test Board Questions/TMA (Tutor Mark Assignment) c) Mobile Cell Phone Repairing and Maintenance or Mobile Phone Repair Technician Case Studies **Exercises and Projects**	*5 hours or 6 hours per subject*	

# Project/Thesis/Case Studies		
Student have to take a Project/Thesis/Case studies as per their major subject in order to complete his/her Diploma/Advanced Diploma. • In case Project/Thesis, respective students should submit 35 to 45 (A4 Size) pages long report. *Course Tutor or Concern Authority will assign/fix Project/Thesis Topic or Title with consultation with respective student.* • In Case Studies, respective students should submit case studies answer script in written form to the GEPEA within stipulated time frame. *Concern Authority will assign case studies question paper in time.*		

TOTAL HOURS REQURIED TO BE COMPLETED FOR THE MOBILE CELL PHONE REPAIRING AND MAINTENANCE DIPLOMA OR PROFESSIONAL CERTIFICATIONS = 16 parts will count 5 hours each (16 parts/courses x 5 hours study each = 80 hours total) + Project Exercises Minimum 20 hours **= Grand Total 100 Hours. OR 16 parts will count 6 hours each** (16 parts/courses x 6 hours study each= 96 hours total) + Project Exercises Minimum 24 hours **= Grand Total 120 Hours.**			

WHY TO CHOOSE OR SCOPE OF MOBILE CELL PHONE REPAIRING AND MAINTENANCE TECHNICIAN COURSE OR DIPLOMA COURSES?

Before choosing a career, every student should check if the future in that field is good or not. The same thing applies for a career in mobile phone repairing. You should opt and choose to be a mobile phone / smartphone repairing technician only if the **future of mobile phone repairing industry** is bright and rewarding.

Many students who do not like to study or drop out of school or college want to learn mobile phone repairing and become a professional technician. They join a mobile repairing course which is generally a short-term course in their localities and then start their profession in mobile phone repairing by either doing a job or business in the field.

The total number of cellphone users growing tremendously which is why the mobile repairing industry has a huge scope. Becoming a mobile repair technician, has good returns. You can work anywhere, in a mobile repairing store or at the authorize service center or you can invest in your own repair and servicing shop. There are many cellphone brands available nowadays and each brand has thousands of service centers in India. It has created a huge employment opportunity.

Demand for mobile repairing engineers has increased as there are many small and large scale companies serving in the market and there are large vacancies for technical servicing. So you can go for mobile repairing, if you are person who loves technology. A repair technician might work in an information technology department (corporate), a service center, or a computer sales environment (retail). Some of these technicians are self-employed or have a firm of their own that provides services in a regional area. Some can be subcontracted as freelancers or consultants. This type of technician are generally enthusiasts that volunteer or make a little side money, to those who work professionally in the field.

COURSE MATERIAL

Besides using the traditional books GEPEA has also modernized the learning process by providing students with online portal consisting of –

- **Study Materials (Soft copies)** – PDF of books are provided to students making studies nomadic & convenient. GEPEA Department of Students Affairs will assign Study Materials via Email or other methods after registration and admission.
- The focal point of **GEPEA** study materials is enhancing Practical Education. **GEPEA** Kit provided to applicants is a world full of practical scenarios, explanation in terms of facts rather than theoretical phrases. Customized to be self-explanatory & easy to understand.
- **Faculty Guidance** – GEPEA panel of intellectuals guide students personally with regards to any query through email about any concept in the notesprovided, being the author of the same.

EXAMINATION

GEPEA Professionals are given the privilege to answer exams from any examination center in the world along with the freedom to pick the exam schedule for the same, as time permits in the particular examination months of GEPEA. Students are allotted 2 modes of examinations – Home Based/Center Based.

- Question papers would be drafted by **GEPEA** panel of veteran professors which would be TMA (Tutor Mark Assignment), OBS (Open Book System) and MCQ study pattern. A single course will consist 100 marks based on these three pattern of exam types. In each program will consist a major (Thesis Research) course or theory in order to complete the respective Diploma Program.
- This unique & novel methodology teaches a student how to assess business situations and make decisions based upon those assessments, allowing students to display their potential.
- In case of home based/distance learning exams question paper would be emailed to the students, which they would have to answer & courier back to GEPEA office or GEPEA directed authority in therespectable exam slab.
- Candidate also has the option of appearing for Center Based Examination wherein they would have to visit one of the many GEPEA exam centers & complete answering the exam in the duration of 3 hours which wouldn't be an open book examination.

CASE STUDY METHOD & STUDY MATERIAL:

Today communication systems have advanced so much that it is much easier, convenient and quicker to gain expertise via online distance learning. GEPEA offer potential students the opportunity to study through an autonomous online distance learning program. This means that people who can't get traditional further education can still achieve what they want and get their qualifications through Online Distance Learning. That gives the opportunity for a much wider range of people to get the qualifications that they want. Today, thanks to technological advances, higher education is more readily available to those who want it.

GEPEA is an institute of excellence offering widest range of autonomous programmes in the field of Business Management and different Professional Training education. In response to the rapidly changing economic environment and the process of globalization, the Academy has made sustained efforts to bring an international perspective to all its wide range of areas and activities.

BENEFITS AND FETURES:

(i) **Flexible Programs & Curriculum:** You can earn and study at the same time! From GEPEA International Curriculum, Flexibility is the biggest advantage of distance learning courses. This stands true especially if you are a working professional. Not everyone has the luxury of taking their own time to finish their studies. For those who had to take a break from studies to start working, such courses are a boon and provide the opportunity to pursue higher education.

(ii) **Saves Time & Energy:** You save up a lot of time and energy on commuting. You can stay at any place and pursue a course that is available at GEPEA. Or you might be based out of a remote village or town which does not have enough options for higher studies. Distance learning courseseliminate these obstacles.

(iii) **MCQ, Case Based Learning:** MCQ, A Case-based approach engages students in discussion of specific situations, typically real-world examples of African, Asian and International companies. Allowing the students to put their theoretical knowledge to practice.

(iv) **Study at your own Pace**: Not everyone has the same pace of learning. Some students pick up things fast, others need time to grasp a concept. One of the biggest advantages of distance learning is that you can study at a pace that is comfortable for you.

(v) **Saves Money:** These courses are almost always cheaper as compared to their on-campus counter-parts. You also cut down on the costs incurred while commuting etc.

(vi) **Personal Fulfillment:** An MBA is the key to unlocking both a professionally and personally rewarding future. Education is the foundation upon which you can build lifelong business and personal achievements. The GEPEA MBA program is designed to enrich your personal life, as well as to keep you informed about a constantly changing industry.

(vii) **Convenient:** You can submit your assignment with the click of a button or simply drop it off at a post-office! It's sometimes as simple as that!

(viii) **24X7 Access to Study Material & fellow Students:** This is the best way to study if you are comfortable with internet and technology. You can access your study material online whenever you want and also clear doubts, exchange views and discuss with your virtual class-mates!

(ix) **Study any Topic You Want:** Since you'd already have all your books/online study material with you, you can pick up any topic/chapter that interests you and tackle that first! This way your interest in the subject is sustained.

(x) **Higher Level of Self-Confidence:** The knowledge gained through our Correspondence MBA program will enhance your effectiveness in your current position and help define your future career path. It will sharpen your skills in critical business areas, giving you the self-confidence you need to become a leader in your profession.

(xi) **Specialization:** We provide more than 80 specializations which allow students to gain additional knowledge and background on specific business top.

ACCREDITATIONS AND RECOGNITIONS:

ITQSM Accredited & International Partnered Professional Academies.

GEPEA has proudly claimed the Excellence in Online Distance Learning Award presented by its Governing Body Really Matters as a token of appreciation for providing top notch education to professionals globally. This solely proclaims that GEPEA is one of the best Professional Academy in the field of online distance learning.

PROFESSIONAL FACULTIES:

GEPEA Faculty members are highly professional, qualified & experienced. Professors provide substantial assistance through 24*7 web support. Each & every query regarding studies, assignments, cases, projects, research are resolved on time & responded with clear, relevant answers on par with syllabus. They update themselves from time to time about the changing market scenario & syllabus. Thus working professionals have chance to get resourceful information by interacting with professors through web-support from time to time. Timely communication & assistance is key to our successful association with our students & our professors believe in same.

GEPEA (Global Educational & Professional Excellence Academy)

In case any query, please feel free to contact us via E-Mail:
gepea.official@gmail.com , office@gepea.eu or visit Website: www.gepea.eu or www.gepea.education