

















MUST ICT SOLUTIONS AND INNOVATION CENTRE (MIIC)

BOOT CAMP TRAINING

FROM 1st TO 16th of August 2018.

MUST ICT Solutions and Innovation Centre (MIIC) under Mbeya University of Science and Technology (MUST) is honored to host its 1st BOOT CAMP TRAINING in mbeya region. The goal of training is to accelerate self-employment for youth and to equip them with practical skills in two weeks. Also for companies need to ensure their employees go through quality training that provides cutting-edge knowledge, skills and hands-on experience in a limited time frame.

Sn.	Course Name	Duration	Course Content	Fee Structure
1	CCNA REVIEW CLASS	1 st week	NETWORK FUNDAMENTALS <ul style="list-style-type: none">  LAB-1 Ethernet Cables  LAB-2 Connectivity of Cisco Devices (Router & Switch) CISCO ROUTER CONFIGURATION <ul style="list-style-type: none">  LAB-3 Basic Cisco Device Configuration  LAB-4 Basic Router Configuration  LAB-5 Accessing a Router via Telnet 	300,000/=
			ROUTING <ul style="list-style-type: none">  LAB-6 Static Route  LAB-7 RIP (Routing Information Protocol)  LAB-8 EIGRP (Enhanced Integrated Routing Protocol)  LAB-9 OSPF (Open Shortest Path First) 	400,000/=
		2 nd week	SWITCHING <ul style="list-style-type: none">  LAB-10 Virtual Local Area Network (VLAN)  LAB-11 Basic VLAN Trunking Protocol (VTP)  LAB-12 Inter VLAN Routing WAN <ul style="list-style-type: none">  LAB-13 Basic Frame Relay  LAB-14 Network Management and Security  LAB-15 Network project based on client requirement 	For MUST Students
2	Cross Platform Mobile Apps	1 st week	INTRODUCTION <ul style="list-style-type: none">  Getting Familiar With Tools To Be Used 	For outsiders
				300,000/=

	Development		<ul style="list-style-type: none"> ✚ Working With INTEL XDK ✚ Mobile Application Life Cycle. ✚ HTML 5 Technologies And JQuery For Mobile Development. ✚ Building First Mobile Application (Practical Assignment I) 	For Students 400,000/=
			<p>BACK END SYSTEMS</p> <ul style="list-style-type: none"> ✚ Introduction to PHP and Database Driven Applications ✚ Manipulating Database With Mobile Applications ✚ Database Driven App Development (Practical Assignment II) ✚ Securing Database Information From Hackers. ✚ Create Simple Login App (Practical Assignment III) 	For outsiders
		2 nd week	<p>CORDOVA PLUGINS</p> <ul style="list-style-type: none"> ✚ Installing And Configuring Cordova Plugins ✚ Creating Mobile App With Plugins Configured In It (Practical Assignment IV) ✚ Installing And Configuring XDK or Other Plugins ✚ Building Database Driven GPS Tracker App ✚ Building Database Driven News App (Practical Assignment V) ✚ Debugging Techniques. <p>MIT APP Inventor</p> <ul style="list-style-type: none"> ✚ MIT App Inventor Life Cycle. ✚ Database Driven Applications With MIT APP Inventor. ✚ Custom Database Driven Applications in MIT App Inventor ✚ Creating Simple Login / Registration App (Practical Assignment VI) ✚ Introduction To Plugins In MIT App Inventor ✚ Creating Plugins And Database oriented Application <p>PRACTICAL MINI PROJECT: Development of Mobile Application</p>	
3	Object Oriented	1 st week	INTRODUCTION	300,000/=

<p>Programming with C++</p>		<ul style="list-style-type: none"> ✚ Review on fundamentals of programming ✚ Fundamentals of Object oriented programming ✚ LAB Practices <p>OBJECTS AND CLASSES</p> <ul style="list-style-type: none"> ✚ Defining classes for objects, constructors and destructors ✚ Accessing object members via pointers ✚ C++ string class, passing object to functions, arrays of objects ✚ Class abstraction and encapsulation <p>INHERITANCE AND POLYMORPHISM</p> <ul style="list-style-type: none"> ✚ Base and derived class, generic programming ✚ Polymorphism and virtual functions ✚ LAB Practices 	<p>For Students MUST</p> <p>400,000/=</p> <p>For outsiders</p>
	<p>2nd week</p>	<p>FILE INPUT AND OUTPUT</p> <ul style="list-style-type: none"> ✚ Text I/O, member functions ✚ File streaming, binary I/O, random access file, updating file <p>OPERATOR OVERLOADING AND EXCEPTIONAL HANDLING</p> <ul style="list-style-type: none"> ✚ Operator functions and overloading, object conversion, rational class ✚ Exceptional handling overview, propagation and specification ✚ LAB Practices <p>INTRODUCING OTHER DATA STRUCTURES</p> <ul style="list-style-type: none"> ✚ Linked lists, stacks, queues, trees ✚ Algorithms (implementation of data structures operations) <p>PRACTICAL MINI PROJECT:</p> <p>Development of specified application with certain requirements</p>	

4	website designing and Hosting	1 st Week	<ul style="list-style-type: none"> ✚ Design simple and creative web pages by using HTML and CSS. ✚ Use Website design tools and Software like Adobe Dreamweaver. ✚ Design and use Graphics in HTML pages, ✚ Introduce students in Scripting Languages like PHP and Java Scripts, ✚ Introduction to Website Hosting and Domain Registration <p>PRACTICAL SESSION:</p> <p>Designing webpage by using HTML. PHP and CSS</p> <p>Hands on skills on various web development tools</p>	300,000/=
		2 nd Week	<ul style="list-style-type: none"> ✚ Design Business and interactive websites by using Content Management System (CMS) like Joomla and Word Press. ✚ Design creative and Business/Organizational websites and web applications by using HTML, CSS, Bootstrap, PHP and Mysql Database. ✚ Website Hosting ✚ Website Maintenance and Troubleshooting <p>PRACTICAL SESSIONS:</p> <p>Environment setup for JAVA web development</p> <p>Hosting and domain registration</p> <p>Working with CPanel</p>	400,000/=

For MUST Students

For outsiders

1. Target groups:

- ❖ Candidates who have finished form four or above and any other person with introductory knowledge on Computer Applications.
- ❖ Staffs from Local Government Authorities, Government Ministries, Agencies and NGO
- ❖ Practicing IT professionals with experience in networking administration.
- ❖ CCNA REVIEW CLASS - To attend this course a student must have a deep understanding of Networking and Network Security, Operating Systems (Windows, Linux and Mac OS X), programming languages and assembly language.

- ❖ Students with diploma in IT, Computer Engineering and Computer Science are also eligible for the course. University students who are in 2nd year and above can also attend the course.
2. **Mode of delivery:**
 - ❖ Hands on in the computer laboratory, Power point presentation, group discussions, group assignments, and individual practical exercises.
 3. **Registration and Payment:**
 - ❖ Registration shall be one week prior to commencement of the course.
 4. **Date and Time:**
 - ❖ The **1st BOOT CAMP TRAINING** will be held from **1st to 16th of August 2018.**
 - ❖ **Six (6) hours per day**
 5. **Venue:**
 - ❖ All courses are conducted at MUST main campus in Mbeya city.
 6. **Mode of Payment:**

Pay to “Mbeya University of Science and Technology” A/C No **016101002687 NBC** before commencement of training and come with bank receipt from bank during registration.
 7. **For enquiries please call:**

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