Job oriented Finishing School Program Course Outline

IPQC Consulting

Finishing school idea for fresh engineers was conceptualised by Reskill India and IPQC Consulting Services. IPQC as a knowledge partner brought industry, academia and students under one roof to address the major challenge of employability of engineering graduates in the country.

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Job oriented Finishing School – IOT Course outline with 3 months Internship

2 Week – IOT training with 3 Months Internship			
		Morning Session	**Afternoon Session**
Week 1	**MON**	Introduction to IoT: -What is the Internet of Things (IoT)? -Brief History and evolution of IoT -Applications of IoT	Introduction to IoT (Cntd): -Embedded System Design &Architecture -Sensing and Actuator Devices -Communication Protocols in IoT/Wireless Sensor Protocol -Cloud Storage and Computing
	TUE	Hardware: -Microcontrollers (PIC microcontroller) and Microprocessors -Interfaces and Interconnects -Power supply in IoT	Software: -Introduction to C/Setting up environment for PIC Microcontroller
	WED	Software: -Introduction to Python	Hardware: -Sensors and Actuators
	THU	Software: -Introduction to Linux	Hardware: -Embedded System Design & Architecture
	FRI	Hands-on Session with PIC microcontroller board	
Week 2	**MON**	Hardware: -Introduction to Micro Processor based Boards/SOM modules including Raspberry Pi, etc	Software: -Introduction to Setting up Raspberry pi board
	TUE	Software: -Introduction to Cloud Storage and Computing	Hardware: -Introduction to Wireless Communication Protocols
	WED	Hands-on Session with Raspberry pi board implementing a Live Application	
	THU		
	FRI	Finishing up, Final thoughts, Q&A and future directions including technology, job potentials and internships	

Job oriented Finishing School – AI/ML Course outline with 3 Months Internship

2 Week AI/ML Training with 3 Months Internship			
		Morning Session	**Afternoon Session**
Week 1	**MON**	Introduction to Data Sciences and Data Analytics	Python Language - Basics
	TUE	Python Language - Introduction	Python Libraries for Data Manipulation
	WED	Business Statistics Concepts	Descriptive and Inferential Statistics using Python
	THU	Introduction to Regression Models	Supervised Techniques - Regression
	FRI	Hands-on Session building regression models	
Week 2	**MON**	Classification Techniques	Supervised Techniques - Classification and Hands-on training
	TUE	Unsupervised Techniques - Clustering	Unsupervised Techniques - Clustering Hands-on training
	WED	Unsupervised Techniques - Association	Text Analytics - NLP
	THU	Optimization Techniques	What if Analysis
	FRI	Project Discussion - Finishing up, Final thoughts, Q&A and future directions including technology, job potentials and internships	
		Project 1: Web Scraping, Data Acquisition and Data Preparation, from Multiple Data Sources	
		Project 2: Data Sciences - Predictive Analytics, Text Mining, & NLP, Optimization Projects for Micro, Small and Medium Enterprise (MSME)	
		Project 3: Image Processing / Data Vision - Object Detection, Processing of Medical Images	
		Project 4: Analysis & Requirement Specifications for requirements cater to Micro, Small and Medium Enterprises (MSME)	
		a. Business Analytics & its applications for Micro, Small and Medium Enterprise	
		b. Iot and Iiot applications for Micro, Small and Medium Enterprise	
		c. Robotic Process Automation for Micro, Small and Medium Enterprise	
		Note: Based on Student's Interest, one of the Projects from the above category would be taken up	
		Course fees: **Rs 10,000/-** for 2 Weeks program of IOT or AI/ML and **Rs 10,000/-** for Internship of up to 3 Months, Paid in two instalments.	