

Date: 13/06/2018,
Hyderabad.

To
The Principal,
G.N.I.T.S.,
Shaikpet, Hyderabad.

Respected Sir,


Sub: Approval letter to conduct Summer Internship program from 17th June to 06th July,2018 –Reg.

(Through Proper Channel)

Department of CSE, organizing a Summer internship program on “**IoT, ML**” program from 17th June to 06th July, 2018 for III B.Tech students in association with **Smart Bridge Educational Ltd.** In this regard we request you to approve the same.

Thanking you sir.

Yours Sincerely,


Dr. M. Seetha,
HOD CSE,



G. Narayanamma Institute of Technology and Science

(AUTONOMOUS)

(for women)

Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad
Accredited by NBA & NAAC, An ISO 9001:2015 Certified Institution

SMARTBRIDGE

Certificate of Participation

presented to

Sanjana Marri(18251A05D2)

for attending Value Added Course on "Summer Internship IoT, AI & ML" organized by
Department of CSE, in collaboration with **Smart Bridge Educational Services Pvt. Ltd.**
From 03/06/2019 to 22/06/2019

Amarender Katkam
Founder & CTO,
Smart Bridge Educational Services Pvt. Ltd.

Dr. M. Seetha
HOD-CSE, GNITS

Dr. K. Ramesh Reddy
PRINCIPAL, GNITS

**G.Narayanamma Institute of Technology and Science
(Autonomous) (For Women)
Department of CSE**

Date: 15/06/2018

CIRCULAR

All the III B.Tech I Semester students are informed that **"Summer Internship IoT & ML"** training program is going to be conducted by Smart bridge edu. Ltd. from 17/06/2018 to 06/07/2018. Interested students can give their names to Faculty Co-ordinators.

Timinings: 9:30 AM to 3:30PM

Faculty Co-ordinators

1. Mr. T. Rajesh, Asst.Professor, CSE. 9494254625
2. Mr.T.Anil, Asst.Professor, CSE. 9902169779

Mscutt
HOD CSE
15/6/2018

**G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(For Women)**

Department of Computer Science and Engineering

Date: 16/07/2018

Title of the Program: Summer Training and Internship program (June-July 2018) on Machine Learning with Python & IBM DSX in collaboration with IBM.

List of Topics and Projects on Machine Learning

Sl. No.	Topics Covered
1	Data Science Use Case: Decision Making, Predictive and Prescriptive Analysis, Machine Learning for making predictions and Machine Learning for pattern discovery (Neural Networks).
2	Introduction to Statistics: Inferential and Descriptive.
3	Distributions: Probability Distribution, Sampling Distribution, Hypothesis (Test to accept hypothesis using tests: T, F, Chi, Z) and Quartiles.
4	Data Analysis using Python: Usage of numpy, pandas, matplotlib, scikit learn and star model.
5	Process for Modeling a Machine Learning Algorithm: Data exploration, pre-processing data and predictive modelling.
6	Visualization: Plots-Scatter plots, Box plots, Cross tab and Histograms.
7	Missing Values Treatment: Mean, Mode, Median Imputations.
8	Models: Regression- Linear Regression, Logistic Regression and Polynomial Regression.
9	Classifiers: SVM (Support Vector Machine), Decision Trees, Random Forest and KNN (K-Nearest Neighbors) Classifier.
10	Data Munging: Principle Component Analysis, Standardization and Normalization.
11	Worked Datasets: Breast Cancer Analysis, Bike Buyer, O-rings failure, Diabetes, Sales and Digit Recognition.
12	Introduction to Artificial Neural Networks: Black Box Investigation, Artificial Neuron and Multilayer Perception.
13	Natural Language Processing: Using NLTK Package, Applications, Tokenization, Stopwords, Stemming Models- Porter, Snowball, Lancaster and Regular Expression, Lemmatization.

Sl. No.	Title of the Project
1	Breast Cancer Analysis: Classifiers, Random Forest, Regression- Linear Regression, Logistic Regression and Polynomial Regression, Decision Trees and KNN (K-Nearest Neighbors) Classifier.
2	Sales: Correlation, Exploratory Data Analysis.
3	Bike Buyer: Missing Values, Replacement Mean and Median Imputations.
4	Diabetes Analysis: Exploratory Data Analysis, Model Building and Model Deployment.
5	Artificial Neural Networks, Natural Language Processing- Stemming, Lemmatization Techniques and Stopwords.


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Department of CSE

Schedule on "SIP-IOT, ML" training Program

S.No	Period	Timings	Session
1	17th June – 22nd June 2018	9:30AM to 3:30PM	<p>Software Installations</p> <p>IoT Devices & Open Hardware Platforms</p> <ul style="list-style-type: none"> • Introduction to Open Hardware Platforms • Introduction to ESP8266 development board (ESP12E) • Programming Analog & Digital I/O's with Arduino IDE • Integrate Analog & Digital Sensors with ESP8266 • Introduction to DHT11 Sensor • Integrate DHT11 Sensor with ESP8266 • working with servo motor <p>IoT Communication Technologies & Protocols</p> <ul style="list-style-type: none"> • Short range & Long range communication technologies • Wired & Wireless Communications Low Power communications technologies • Introduction to Serial Communications (UART, SPI, I2C, BLE) • IP Based Communications – Ethernet, Wi-Fi, 6LoWPAN, GPRS Radio • Communications – RF, NFC, RFID • Explore Serial Communications (UART, SPI, I2C) • Explore Bluetooth Communication & integrating Bluetooth module to nodemcu • Explore I2C Communication & working with OLED display • Explore Radio Frequency Communication & working with NRF Modules

2	17th June – 22nd June 2018	9:30AM to 3:30PM	<p>Introduction to communication models</p> <ul style="list-style-type: none"> • Device Network Connectivity • Client - Server Communication Model • Publish - Subscribe Communication Model • Working with ESP8266WIFI & ESP8266WEBSERVER libraries • Smart Home Automation using ESP8266 • Introduction to Msg 91 messaging platform • Sending messages using HTTP requests using ESP8266 • Importance of IOT Platform & Its generic Architecture • Getting Started with IBM Watson IOT Platform • connect online sensor to IBM cloud and Visualizing real-time data by using boards and cards • Connect ESP8266 to Watson IOT Platform • Send Sensor data to Watson IOT Platform using MQTT and HTTP • Visualizing real-time data by using boards and cards • Introduction to CloudantNoSQL DB • Query and Process Watson IoT Device Data from CloudantNoSQL DB • API & Client Libraries for CloudantNoSQL DB
3	24 th June to 30 th June 2018	9:30AM to 3:30PM	<p>Application Development with Node-RED & MIT App Inventor</p> <ul style="list-style-type: none"> • Introduction to Application Development • MIT App Inventor for Android App Development • Perform Retrieve & Update data operations from MIT App Inventor • Introduction to Node-RED • Web App development using NodeRED • Create a Node-RED application to send commands to device

4	24 th June to 30 th June 2018	9:30AM to 3:30PM	<p>IoT Gateways & Gateway Programming</p> <ul style="list-style-type: none"> • Introduction to IOT Gateways • Purpose of IoT Gateway • Introduction to Raspberry Pi • OS Installation & Configurations • Python Programming • Programming GPIO pins • Integrating Digital I/O with Raspberry Pi • Explore ultrasonic sensor and integrating it with Raspberry Pi • Making the Raspberry Pi as MQTT Broker • Introduction to IBM Watson Conversation Service • Create an Instance of Conversation Service • Create a simple conversation App • Work on Recipe - Talk to your Sensor using the Watson IoT Platform • Fundamentals of Machine Learning • Supervised & Unsupervised learning • Regression & Classification <p>Machine Learning Terminology</p>
5	1 st July to 6 th July 2018	9:30AM to 3:30PM	<ul style="list-style-type: none"> • Introduction to Scikit-Learn Package • Regression Analysis <ul style="list-style-type: none"> • Linear Regression Introduction to Classification Problems • Logistic Regression • K-Nearest Neighboring • Support Vector Machine • Introduction to IBM Cloud • Introduction to Watson Studio • Building Machine learning model in Watson Studio <p>Deploying Machine Learning as web-services</p> <ul style="list-style-type: none"> • Naive-Bayes • Decision Tree • Random Forest <ul style="list-style-type: none"> • Introduction to Neural Networks <ul style="list-style-type: none"> ○ The Neuron ○ The Activation Function ○ How do Neural Networks work? ○ How do Neural Networks learn?

			<ul style="list-style-type: none"> ○ Gradient Descent ○ Stochastic Gradient Descent ○ Backpropagation • Introduction to Keras Framework <ul style="list-style-type: none"> ○ Introduction to the Sequential Mode ○ Activation functions ○ Layers ○ Training ○ Loss function <p>Building ANN Using Tensorflow using sample dataset</p> <ul style="list-style-type: none"> • Introduction to Open Cv • Image Transformations Using Opencv • Face Detection Using OpenCv
6	1 st July to 6 th July 2018	9:30AM to 3:30PM	<ul style="list-style-type: none"> • Introduction to Convolutional Neural Networks <ul style="list-style-type: none"> ○ What are convolutional neural networks? ○ Step 1 - Convolution Operation ○ Step 1(b) - ReLU Layer ○ Step 2 - Pooling ○ Step 3 - Flattening ○ Step 4 - Full Connection • Classification of images using CNN • Evaluating, Improving and Tuning the CNN • Introduction to Natural Language Processing • Introduction to NTLK • Bag of Words model • Natural Language Processing in Python • Sentiment analysis using Natural Language Processing <ul style="list-style-type: none"> ○ Cleaning the texts ○ Creating the Bag of Words model ○ classification of texts

Internet of Things (IoT) With IBM Cloud

Day 01

Introduction: Internet of Things (IoT) & IoT Applications

- IOT Applications & projects
- IOT Architecture & Deployment models
- Building Blocks of IOT
- Applications
- Software Installations

Day 02

IoT Devices & Open Hardware Platforms

- Introduction to Open Hardware Platforms
- Introduction to ESP8266 development board (ESP12E)
- Programming Analog & Digital I/O's with Arduino IDE
- Integrate Analog & Digital Sensors with ESP8266
- Introduction to DHT11 Sensor
- Integrate DHT11 Sensor with ESP8266
- working with servo motor

Day 03

IoT Communication Technologies & Protocols

- Short range & Long range communication technologies
- Wired & Wireless Communications Low Power communications technologies
- Introduction to Serial Communications (UART, SPI, I2C, BLE)
- IP Based Communications – Ethernet, Wi-Fi, 6LoWPAN, GPRS Radio Communications – RF, NFC, RFID
- Explore Serial Communications (UART, SPI, I2C)
- Explore Bluetooth Communication & integrating Bluetooth module to nodemcu
- Explore I2C Communication & working with OLED display

Day 04

Introduction to communication models

- Explore Radio Frequency Communication & working with NRF Modules
- Device Network Connectivity
- Client - Server Communication Model
- Publish - Subscribe Communication Model

- Working with ESP8266WIFI & ESP8266WEBSERVER libraries
- Smart Home Automation using ESP8266

Day 5:

IoT Platforms & Architecture

- Importance of IOT Platform & its generic Architecture
- Getting Started with IBM Watson IOT Platform
- connect online sensor to IBM cloud and Visualizing real-time data by using boards and cards
- Introduction to Msg 91 messaging platform
- Sending messages using HTTP requests using ESP8266

Day 6:

- Connect ESP8266 to Watson IOT Platform
- Send Sensor data to Watson IOT Platform using MQTT and HTTP
- Visualizing real-time data by using boards and cards
- Introduction to Cloudant NoSQL DB
- Query and Process Watson IoT Device Data from Cloudant NoSQL DB
- API & Client Libraries for Cloudant NoSQL DB

Day 07:

Application Development with Node-RED & MIT App Inventor

- Introduction to Application Development
- MIT App Inventor for Android App Development
- Perform Retrieve & Update data operations from MIT App Inventor
- Introduction to Node-RED • Web App development using NodeRED
- Create a Node-RED application to send commands to device

Day 8:

IoT Gateways & Gateway Programming

- Introduction to IOT Gateways
- Purpose of IoT Gateway
- Introduction to Raspberry Pi
- OS Installation & Configurations
- Python Programming
- Programming GPIO pins

Day 9:

- Integrating Digital I/O with Raspberry Pi
- Explore ultrasonic sensor and integrating it with Raspberry Pi
- Making the Raspberry Pi as MQTT Broker

Day 10

Cognitive Computing with IBM Watson Platform

- Introduction to IBM Watson Conversation Service
- Create an Instance of Conversation Service
- Create a simple conversation App
- Work on Recipe - Talk to your Sensor using the Watson IoT Platform

**G.NARAYANAMMA INSTITUTE OF TECHNOLOGY & SCIENCE
(AUTONOMOUS) (FOR WOMEN)**

SUMMER TRAINING AND INTERNSHIP PROGRAM 2018

PROJECTS ON INTERNET OF THINGS

S.NO	ROLL NO	DEPT	NAME OF THE PROJECT
1. 2. 3.	16251A05C3 16251A05F0 16251A05F1	CSE	SMART TRANSPORTATION
1. 2. 3.	16251A05E6 16251A05F3 16251A05J0	CSE	THE WEATHER GLOB
1. 2. 3.	16251A05F6 16251A05G2 16251A05H6	CSE	BIN ALERT
1. 2. 3.	17255A0504 17255A0506 17255A0502	CSE	WATER FLOW MONITERING
1. 2. 3.	16251A05C1 16251A05H2 16251A05H4	CSE	AIR QUAIITY METER
1. 2. 3. 4.	16251A0501 16251A05G9 16251A0433 16251A04A5	CSE CSE ECE ECE	FIINGERPRINT VEHICLE STARTER
1. 2. 3.	16251A1214 16251A1218 16251A1235	IT	SMART HOME(TEMPERATURE & HUMIDITY)
1. 2.	P.SURYA TEJASWIN S.SAIPRIYA	ECE	INTERNET OF VEHICLES (AUTOMATIC CAR)
1. 2. 3.	16251A0598 16251A0592 16251A0590	CSE	GAS LEAKAGE ALERT
1. 2. 3.	16251A1204 16251A1231 16251A1246	IT	AUTOMATIC STREET LIGHT SYSTEM
1. 2. 3.	16251A0227 16251A0230 16251A0544	EEE EEE CSE	SMART HOME AUTOMATION

Sreelatha

1. 2. 3.	16251A1222 16251A1234 16251A1244	IT	SMART HEART RATE MONITORING
1. 2. 3.	15251A0283 1602-16-733-310 VASAVI 16251A1203	EEE CSE IT	SMART AIR COOLERS
1. 2. 3.	17255A0503 17255A0529 17255A0501	CSE	SMART LIGHTING SYSTEM
1. 2. 3.	17255A0515 17255A0513 17255A0527	CSE	SMART IRRIGATION
1. 2. 3.	16251A0576 16251A0594 16251A0427	CSE CSE ECE	SMART PRINT
1. 2. 3.	16251A05B9 16251A0581 G.SRAVYA	CSE CSE ECE	THE GCA (GROCERY CHECK AUTOMATION)
1. 2. 3.	16251A0511 16251A0533 16251A05C7	CSE	MISSHAP REPORTER
1. 2. 3.	15251A0515 15251A0525 15251A05C1	CSE	WATER LEVEL MONITORING SYSTEM
1. 2. 3.	16251A0568 16251A05B8 16251A05B1	CSE	STREET LIGHT AUTOMATION USING RASBERRY PI
1. 2. 3. 4.	16251A0494 16251A04A0 16251A0489 16251A0490	ECE	WIRELESS HOME SECURITY SYSTEM
1. 2. 3.	16251A0571 16251A0586 16251A0596	CSE	SMART AQUARIUM
1. 2. 3.	16251A05G3 16251A0457 16251A04B4	CSE ECE ECE	SMART WATER MANAGEMENT

1. 2. 3.	16251A1221 16251A05E9 16251A0426	IT CSE ECE	SMART FARMING(SOIL MOISTURE)
1. 2. 3.	16251A05H9 16251A05D3 16251A05G0	CSE	PARK IT HERE SMART PARKING SYSTEM
1. 2. 3.	15251A0554 16255A0519 16255A0501	CSE	SMART LOCKER
1. 2. 3.	16251A0484 16251A0486 16251A0462	ECE	SMART PLANT
1. 2. 3.	16251A0507 16251A0514 16251A0548	CSE	TRAVEL SAFE
1. 2. 3.	15251A05F0 15251A05E6 P.KALYANI	CSE	IDENTITY DETECTION HOME SECURITY SYSTEM

M.M.
HOD-CSE

Sl. NO	Name	Internet of Things					Slot				
		Name	Email	Mobile	18-06-2018	19-06-2018	20-06-2018	21-06-2018	22-06-2018		
1	Va-shika Pareelbar	vashikapareelbar@gmail.com	9618299193	P. Yalva	P. Yalva	P. Yalva	P. Yalva	P. Yalva			
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7	Ramya	ponnamramya37@gmail.com	7286979498	Ramya	Ramya	Ramya	Ramya	Ramya			
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11	Keerthana	keerthanasingindore@gmail.com	9578271915	Keerthana	Keerthana	Keerthana	Keerthana	Keerthana			
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13	V. Vidhya	vidhya.vijichala@gmail.com	8897611736	V. Vidhya	V. Vidhya	V. Vidhya	V. Vidhya	V. Vidhya			
14	I. Sindhu priya	Sindhupriya20@gmail.com	2465053408	I. Sindhu	I. Sindhu	I. Sindhu	I. Sindhu	I. Sindhu			
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36	Shruthi Divyashree	ssonakshi7@gmail.com	5000477000	Shruthi	Shruthi	Shruthi	Shruthi	Shruthi			
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38	S. Anandambika Sowmya	soomyapagadi@gmail.com	9705350378	S. Anandambika	S. Anandambika	S. Anandambika	S. Anandambika	S. Anandambika			
39	P. Anitha Kalpana Reddy	anithakalpana7@gmail.com	9949209565	P. Anitha	P. Anitha	P. Anitha	P. Anitha	P. Anitha			
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42	S. Ananya	ananyagandhi@gmail.com	8887707128	S. Ananya	S. Ananya	S. Ananya	S. Ananya	S. Ananya			
43	S. Ananya	ananyapoojitha@gmail.com	9553351166	S. Ananya	S. Ananya	S. Ananya	S. Ananya	S. Ananya			
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45	S. Ananya	ananyapoojitha@gmail.com	01320995463	S. Ananya	S. Ananya	S. Ananya	S. Ananya	S. Ananya			

20

Location	GNITS					Slot				
	Internet of Things					Morning				
	Course	Name	Email	Mobile		18-06-2018	19-06-2018	20-06-2018	21-06-2018	22-06-2018
47	Setani reethika	reethika kesari@gmail.com	7095139923		K. Reethika	K. Reethika	K. Reethika	K. Reethika	K. Reethika	K. Reethika
48	K. Nikitha	nikithakasserla@gmail.com	8179791357		K. Nikitha	K. Nikitha	K. Nikitha	K. Nikitha	K. Nikitha	K. Nikitha
49	Kandala vasavya	vasavyakandala99@gmail.com	7893179032		K. Vasavya	K. Vasavya	K. Vasavya	K. Vasavya	K. Vasavya	K. Vasavya
50	P. Ashvitha	ashvithareddy464@gmail.com	7093675319		K. Ashvitha	K. Ashvitha	K. Ashvitha	K. Ashvitha	K. Ashvitha	K. Ashvitha
51	K. Akhila	akhilakavyathi333@gmail.com	9133314941		K. Akhila	K. Akhila	K. Akhila	K. Akhila	K. Akhila	K. Akhila
52	C. Sadhana priya	gmaprakash1234@gmail.com	9618055330		C. Sadhana Priya	C. Sadhana Priya	C. Sadhana Priya	C. Sadhana Priya	C. Sadhana Priya	C. Sadhana Priya
53	E. Reetu Raj	reetu1698@gmail.com	8088557722		E. Reetu Raj	E. Reetu Raj	E. Reetu Raj	E. Reetu Raj	E. Reetu Raj	E. Reetu Raj
54	Priyanka sriramoujo	onyankasriramoujo5@gmail.com	9100176006		Priyanka Sriramoujo	Priyanka Sriramoujo	Priyanka Sriramoujo	Priyanka Sriramoujo	Priyanka Sriramoujo	Priyanka Sriramoujo
55	Sreyas R Reddy	sreyasreddy28@gmail.com	91690533056		Sreyas R Reddy	Sreyas R Reddy	Sreyas R Reddy	Sreyas R Reddy	Sreyas R Reddy	Sreyas R Reddy
56	P. Ashley Praveen	ashley.praveen@gmail.com	9802635197		P. Ashley Praveen	P. Ashley Praveen	P. Ashley Praveen	P. Ashley Praveen	P. Ashley Praveen	P. Ashley Praveen
57	P. Maheshwal	maheshwalmaishika94@gmail.com	7330251645		P. Maheshwal	P. Maheshwal	P. Maheshwal	P. Maheshwal	P. Maheshwal	P. Maheshwal
58	D. Niketha	niketha.delly2@gmail.com	7582808888		D. Niketha	D. Niketha	D. Niketha	D. Niketha	D. Niketha	D. Niketha
59	N. Hanitha	hanitha.nishanadh@gmail.com	109161591199		N. Hanitha	N. Hanitha	N. Hanitha	N. Hanitha	N. Hanitha	N. Hanitha
60	K. Suresha	suresha.sony44@gmail.com	8328459248		K. Suresha	K. Suresha	K. Suresha	K. Suresha	K. Suresha	K. Suresha
61	K. Poojapatha	kathirupriyathirupriya@gmail.com	753133771		K. Poojapatha	K. Poojapatha	K. Poojapatha	K. Poojapatha	K. Poojapatha	K. Poojapatha
62	B. Shansani	shansani.nikhil@gmail.com	7991661339		B. Shansani	B. Shansani	B. Shansani	B. Shansani	B. Shansani	B. Shansani
63	S. Seetha	srikanthseetha@gmail.com	9133322301		S. Seetha	S. Seetha	S. Seetha	S. Seetha	S. Seetha	S. Seetha
64	J. Meghana	meghanareddy116@gmail.com	900089946		J. Meghana	J. Meghana	J. Meghana	J. Meghana	J. Meghana	J. Meghana
65	S. Sai Prasa	saisaiprasad10@gmail.com	929820405		S. Sai Prasa	S. Sai Prasa	S. Sai Prasa	S. Sai Prasa	S. Sai Prasa	S. Sai Prasa
66	Sriya Tejashwari P	sriyatejashwari@gmail.com	915044102		Sriya Tejashwari P	Sriya Tejashwari P	Sriya Tejashwari P	Sriya Tejashwari P	Sriya Tejashwari P	Sriya Tejashwari P
67	N. Anishka	anishka.p99@gmail.com	7994023391		N. Anishka	N. Anishka	N. Anishka	N. Anishka	N. Anishka	N. Anishka
68	MOHAMMED SHAMA	shamasultana6@gmail.com	703275850		MOHAMMED SHAMA	MOHAMMED SHAMA	MOHAMMED SHAMA	MOHAMMED SHAMA	MOHAMMED SHAMA	MOHAMMED SHAMA
69	A. Sushma	sushma.92@gmail.com	970228396		A. Sushma	A. Sushma	A. Sushma	A. Sushma	A. Sushma	A. Sushma
70	N. Shwanya	nishanishika@gmail.com	799746519		N. Shwanya	N. Shwanya	N. Shwanya	N. Shwanya	N. Shwanya	N. Shwanya
71	J. Fathima	fathimayip@gmail.com	917732614		J. Fathima	J. Fathima	J. Fathima	J. Fathima	J. Fathima	J. Fathima
72	B. Sushma R.ady	bhaskarreddy.sushma@gmail.com	915044102		B. Sushma R.ady	B. Sushma R.ady	B. Sushma R.ady	B. Sushma R.ady	B. Sushma R.ady	B. Sushma R.ady
73	V. Priyanka	priyav12@gmail.com	7147021736		V. Priyanka	V. Priyanka	V. Priyanka	V. Priyanka	V. Priyanka	V. Priyanka
74	M. Subhanka Reddy	reddy.subhanka9@gmail.com	9100050185		M. Subhanka Reddy	M. Subhanka Reddy	M. Subhanka Reddy	M. Subhanka Reddy	M. Subhanka Reddy	M. Subhanka Reddy
75	Esabelli Manasa	manasaesabelli25@gmail.com	902658188		Esabelli Manasa	Esabelli Manasa	Esabelli Manasa	Esabelli Manasa	Esabelli Manasa	Esabelli Manasa
76	Loka Pravalika	pravalika.loka1998@gmail.com	715923844		Loka Pravalika	Loka Pravalika	Loka Pravalika	Loka Pravalika	Loka Pravalika	Loka Pravalika
77										

transferred from
M1 to 501

OX

Location	GNITS				Slot			
	Internet of Things							
Course	Name	Email	Mobile	Afternoon				
S NO				18-06-2018	19-06-2018	20-06-2018	21-06-2018	22-06-2018
1	Rohanur Utkarsh	utkarshrohanur@gmail.com	9440304090	Utkarsh	Utkarsh	Utkarsh	Utkarsh	Utkarsh
2	KODALI SOWMYA SRI SAHITHI	kodalarahitha317@gmail.com	5492038544					
3	Sri Sri Soumya Kasa	soumyakasa01@gmail.com	8331947673					
4	Erizabell Manasa	manasaerizabell359@gmail.com	9491652148					
5	N. Sushmitha chowdary	nalsushmithasushmitha@gmail.com	9912982293					
6	Renuka pranshi	pranshirenuka0205@gmail.com	9490481320					
7	Gopi Sushitha	sushithagopi@gmail.com	7997169626					
8	Deekunda Sowmya	deekundasonowmya1998@gmail.com	9704815058					
9	Loka Praagika	pragikaloka1998@gmail.com	7059033924					
10	Neermai keerthi	neermaikeerthireddy33@gmail.com	7038991029					
11	Gopul Poojitha	gopulpoojitha@gmail.com	9849281688					
12	Nirmala	nirmala2107@gmail.com	8885024709					
13	K. Vachoolasa	vachoolasakandasa@gmail.com	7383507319					
14	Bellitha Varshnavi	bellithavarshnavi@gmail.com	9676462226					
15	S. Jothi	Sriramruthiravi@gmail.com	9133322724					
16	S. CHATRI VENKATA VALLI	segudhatr@gmail.com	9441632277					
17	S. Vasanthi	vasanthi_b1999@gmail.com	7997005369					
18	Vaishnavi Y	vaishnaviyals1997@gmail.com	9155195499					
19	M. Anshu Vashrini	anshuvashrini213@gmail.com	8919048668					
20	Prayash	kothurprayash123@gmail.com	7337387771					
21	Senth	raoasenth567@gmail.com	9100765230					
22	B. Kavya	bjkavya19@gmail.com	7095624636					
23	D. Kavya	meetha_dolly2@gmail.com	7382308888					
24	P. Sujanya	soujanyasuj1012@gmail.com	9997491719					
25	Vemshetti Sujaraj	suparaj_v522@gmail.com	9704645364					
26	Buddam Sushma Reddy	buddamsushmareddy38@gmail.com	9550697733					
27	Sravan Reddy	sravareddy28@gmail.com	9490233456					
28	Irashina	irashina77@gmail.com	7702283959					
29	kg Sri Anam	nighravani498@gmail.com	7995926519					
30	P. G. Srujanika	psrujanika@gmail.com	9154944423					
31	P. Anuradha	teedymannishu20@gmail.com	7330853645					
32	P. Anuradha	regaliprathibha@gmail.com	9338679076					
33	Anuradha Mallampati	anuradhamallampati@gmail.com	9840481537					
34	Ramya Niveda	ash1698@gmail.com	9490234318					
35	S. Anuradha Soddantham	nivedaramya012@gmail.com	8640386888					
36	Anuradha Parmala	sarpireddy106@gmail.com	7386882256					
37	M. Deekshitha	madupabijideekshitha@gmail.com	7701513495					
38	K. Anuradha	kanupama1999@gmail.com	9052462132					
39	Navya	navyapolumati@gmail.com	9928249098					
40	B. Shanmukha Reddy	bairadarshanmukha@gmail.com	957396114					
41	E. Roobu Roy	roobu98@gmail.com	9088553122					
42	G. Alekhya	alekhyag187@gmail.com	7994124534					
43	P. Kalyani	kalyanipkalyani7@gmail.com	9314996419					

M

Location	GNITS					Slot				
	IoT					Morning				
	Name	Email	Mobile	25/06/2018	26/06/2018	27/06/2018	28/06/2018	29/06/2018		
Course										
S.NO										
1	Mamaitha Peravali	paaperavaimamatha764@gmail	8332858764							
2	R.Nikitha	nikitharanga13@gmail.com	7995817645							
3	G Anela	ganeeyoshi@gmail.com	9676971760							
4	Y Srinidhi	haleehoney@gmail.com	8074549372							
5	Munipelli Varunitha	munipelivarunitha@gmail.com	7032089563							
6	kesani reethika	reethika kesani@gmail.com	7095339923							
7	Marijusha	manjushabhavani@gmail.com	8500648460							
8	K.Sweetha	swethasony444@gmail.com	8328459746							
9	I.sindhupriya	Sindhupriyainala20@gmail.com	8465053498							
10	K.Deepika	deepikakakkeria7@gmail.com	9951638737							
11	Challapalli kavayesree	Kavayesreech11@gmail.com	8374417644							
12	P.Nishma	nishmaperumandaa44@gmail.com	7032706170							
13	K.Akhila	akhilakayathi333@gmail.com	9133124941							
14	Tadem sarjana	tademsarjana57@gmail.com	9959222930							
15	Vankara Manogna	vmanogna1998@gmail.com	7032289601							
16	Aishwarya Govina	aishwariyabindu9910@gmail.com	9100694278							
17	Sai Deepika Mallala	deepika mallala@gmail.com	9121782364							
18	N Haritha	harithaviswanadh1999@gmail.com	8095584109							
19	J Meghana	meghanareddy1616@gmail.com	9000879948							
20	Roshini Sharma	roshinisharma307@gmail.com	9008920093							
21	C.sadhana priya	gynapika1234@gmail.com	9618055330							
22	Md.Sharma	Shamasulfiana64@gmail.com	7032758850							
23	Chetlia Sai Harini	saharimichetlia@gmail.com	9848673522							
24	Ramini javali	javali_12@gmail.com	8977500236							
25	Mamidi Sh Naga Hensi	seershika.m@gmail.com	7997081698							
26	K.Vadnoolasa	vadnoolasakandada@gmail.com	7382507319							
27	M.Deekshitha	madvprathj_eekshitha@gmail.com	7901513475							
28	Anupama Komuravelly	kanupama1998@gmail.com	9032762132							
29	Navya P	navyapolumali@gmail.com	7981679098							
30	Aishwarya maillempati	aishi3698@gmail.com	9640481537							
31	Ramuni Niveda	nivedaramuni012@gmail.com	9490234318							
32	Revannur Utkarsha	utkarsharevanur@gmail.com	9440301090							
33	Goli Sushitha	sushithag@gmail.com	7997169626							
34	Errabelli Manasa	manasaerrabelli359@gmail.com	9491652148							
35	Venishetti Supraja	supraja_v5222@gmail.com	9704645364							
36	G.Alekhy	Alekhyag987@gmail.com	9494124534							
37	Nermati keerthi	nematikeerthireddy33@gmail.com	7036991029							
38	Remidi pranavi	pranavupranavi0205@gmail	9490481320							
39	Sai Sri Soumya Kasa	soumyak901@gmail.com	8331947873							
40	Baddam Sushma Reddy	baddamsushmareddy18@gmail.com	9550687733							
41	Vaishnavi .Y	vaishnavadala1987@gmail.com	9133195449							
42	Sahithi	raosahithi567@gmail.com	9100765230							

	Loka Pravalika	pr. ika.loka1998@gmail.com	7659033924	Prava' 4	Pravalika	Pravalika
90						
91	K. Narayana	narayanadw...@gmail.com	8490991144	Narayana	K. Narayana	K. Narayana
92	P. Sejayaya	sejayaya...@gmail.com	7997491379	Sejayaya	Sejayaya	Sejayaya
93	D. Shambhava	shambhava...@gmail.com	7997065388	Shambhava	Shambhava	Shambhava
94	V. Manjula	manjula...@gmail.com	7995242605	Manjula	Manjula	Manjula
95	K. Sripreya	sripreya...@gmail.com	7702219688	Sripreya	Sripreya	Sripreya
96	S. Sai Priya	sai.priya...@gmail.com	9398294445	Sai Priya	Sai Priya	Sai Priya
97	Susma Tej Kumar	susma.tej...@gmail.com	9153994223	Susma Tej Kumar	Susma Tej Kumar	Susma Tej Kumar
98	Shankara Duravaka	shankara...@gmail.com	9000720810	Shankara	Shankara	Shankara
99						
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19

Location		GNITS		Slot							
Course	IoT	Name	Email	Mobile	Morning						
S.NO					02-07-2018	03-07-2018	04-07-2018	05-07-2018	06-07-2018	Week 3	
1	Mamatha Peravali	Mamatha Peravali	mamaperavalimamatha764@gmail.com	8332858764	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
2	R Nikhila	R Nikhila	nikharanga13@gmail.com	7865917645	Deepika	Deepika	Deepika	Deepika	Deepika	Deepika	Deepika
3	G Anceia	G Anceia	gancelayoshi@gmail.com	9676971760	Deepika	Deepika	Deepika	Deepika	Deepika	Deepika	Deepika
4	Y Srinidhi	Y Srinidhi	haleehoney@gmail.com	8074548372	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
5	Munipelli Varunitha	Munipelli Varunitha	munipellivarunitha@gmail.com	7032099563	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
6	kesani reethika	kesani reethika	reethika kesani@gmail.com	7095339923	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
7	Manjusha	Manjusha	manjushabhavani@gmail.com	8500648480	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
8	K Swetha	K Swetha	swethasony444@gmail.com	8328459748	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
9	I.sindhupriya	I.sindhupriya	Sindhupriyainala20@gmail.com	8465053488	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
10	K Deepika	K Deepika	deepikakakkerla7@gmail.com	9951638737	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
11	Chalipalli kavayasee	Chalipalli kavayasee	Kavayaseech11@gmail.com	8374417644	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
12	P Nishina	P Nishina	nishinaperumandla44@gmail.com	7032706170	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
13	K Akhila	K Akhila	akshakayathi333@gmail.com	9133124841	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
14	Fadema sanjana	Fadema sanjana	tademaarjanas7@gmail.com	9959222930	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
15	Vankara Manogna	Vankara Manogna	vmanogna1998@gmail.com	7032288601	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
16	Aishwarya Govina	Aishwarya Govina	aishwaryabindhu9910@gmail.com	9103854278	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
17	Sai Deepika Mailela	Sai Deepika Mailela	deepika_mailela@gmail.com	9721782354	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
18	N Haritha	N Haritha	harithaviswanadh1999@gmail.com	8096564109	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
19	J Meghana	J Meghana	meghanavardh1616@gmail.com	9000879546	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
20	Roshini Sharma	Roshini Sharma	roshinisharma307@gmail.com	9808920093	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
21	G.sadhana priya	G.sadhana priya	gynapika1234@gmail.com	9818058330	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
22	Md Shama	Md Shama	Shamasulfatma4@gmail.com	7032758850	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
23	Chetlia Sai Harini	Chetlia Sai Harini	saiharinichetlia@gmail.com	9846673522	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
24	Ramini Javali	Ramini Javali	rjavali1@gmail.com	5977500236	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
25	Mamidi Sri Naga Hans	Mamidi Sri Naga Hans	seerishika m@gmail.com	7987081698	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
26	K Vadnoolasa	K Vadnoolasa	vadnoolasakandada@gmail.com	7382507319	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
27	M Deekshitha	M Deekshitha	mdeekshitha1999@gmail.com	7901613475	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
28	Anupama Komuravely	Anupama Komuravely	kanupama1999@gmail.com	9032762132	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
29	Navya P	Navya P	navyapolimala@gmail.com	7981879098	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
30	Aishwarya mallempati	Aishwarya mallempati	aish3656@gmail.com	9640561537	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
31	Ramuni Niveda	Ramuni Niveda	nivedaramuni012@gmail.com	9490234318	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
32	Pevarur Utkarsha	Pevarur Utkarsha	utkarsharevanur@gmail.com	9440301090	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
33	Geeti Sushitha	Geeti Sushitha	sushithag@gmail.com	7997169626	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha
34	Errabelli Manasa	Errabelli Manasa	manasaerrabelli356@gmail.com	9491652148	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha	Manjusha

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35	Venishetti Supreja G.Alekhyia	supreja_v5222@gmail.com Alekhya987@gmail.com	9704645364 9454124534	V. Supriya Alekhyia	V. Supriya Alekhyia	V. Supriya Alekhyia	V. Supriya Alekhyia	V. Supriya Alekhyia
37	Nermati Keerthi	nermatikeerthireddy33@gmail.com	7038891029	Keerthi	Keerthi	Keerthi	Keerthi	Keerthi
38	Remidi pranavi	pranavupranavi0205@gmail.com	9490481320	Pranavi	Pranavi	Pranavi	Pranavi	Pranavi
39	Sai Sri Soumya Kasa	soumyak901@gmail.com	8331947873	Soumya	Soumya	Soumya	Soumya	Soumya
40	Beddam Sushma Reddy	beddamusushmareddy18@gmail.com	9550697733	Sushma	Sushma	Sushma	Sushma	Sushma
41	Vaishnavi Y	vaishnaviyada1997@gmail.com	9133195449	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi	Vaishnavi
42	Sahithi	raosahithi587@gmail.com	9100765230	Sahithi	Sahithi	Sahithi	Sahithi	Sahithi
43	Shanmukhi Bairreddy	bairreddy.shanmukhi12@gmail.com	9573786194	Shanmukhi	Shanmukhi	Shanmukhi	Shanmukhi	Shanmukhi
44	N.lakshmi vyshnavi	lakshmiVyshnavi213@gmail.com	8939048888	N.lakshmi	N.lakshmi	N.lakshmi	N.lakshmi	N.lakshmi
45	S. Meghana	meghanasivaratri95@gmail.com	9583937547	Meghana	Meghana	Meghana	Meghana	Meghana
46	T. Samyuktha	samyukthahirunahan20@gmail.com	8897084840	T. Samyuktha	T. Samyuktha	T. Samyuktha	T. Samyuktha	T. Samyuktha
47	B. Sai Tulasi	saitulasi299@gmail.com	9492768834	B. Sai Tulasi	B. Sai Tulasi	B. Sai Tulasi	B. Sai Tulasi	B. Sai Tulasi
48	Sindhu Cutti	sindhugutti@gmail.com	8019431108	Sindhu	Sindhu	Sindhu	Sindhu	Sindhu
49	P. Maneesha	reddymanisha970@gmail.com	7330853645	P. Maneesha	P. Maneesha	P. Maneesha	P. Maneesha	P. Maneesha
50	Priyanka tiramoju	priyankatiramoju5@gmail.com	9700176006	Priyanka	Priyanka	Priyanka	Priyanka	Priyanka
51	Bani Dhanalaxmi	dhanasam333@gmail.com	8247529416	Bani	Bani	Bani	Bani	Bani
52	Soma jayasree	Somajayasree10@gmail.com	8179302188	Soma	Soma	Soma	Soma	Soma
53	ramya	ponnamramya37@gmail.com	7286979498	Ramya	Ramya	Ramya	Ramya	Ramya
54	TEJASVINI PUNJALA	tejasvimpunjala98@gmail.com	9553351156	Tejasvini	Tejasvini	Tejasvini	Tejasvini	Tejasvini
55	LOKA SWETHA SRILAKSHMI	swetha363.sl@gmail.com	9010438825	Loka Swetha	Loka Swetha	Loka Swetha	Loka Swetha	Loka Swetha
56	P. lakshmi bhavana	123bhavanapuli@gmail.com	8179993580	P. Lakshmi	P. Lakshmi	P. Lakshmi	P. Lakshmi	P. Lakshmi
57	Tejaswy Ghanta	gitejaswi@gmail.com	9030001195	Tejaswy	Tejaswy	Tejaswy	Tejaswy	Tejaswy
58	Kandala vasavya	Vasavyakandala99@gmail.com	7893179522	Kandala	Kandala	Kandala	Kandala	Kandala
59	Keerthana	keerthanasingdoor@gmail.com	9573271915	Keerthana	Keerthana	Keerthana	Keerthana	Keerthana
60	M.V.L Madhoolika	madhoolika98@gmail.com	8179123007	M.V.L	M.V.L	M.V.L	M.V.L	M.V.L
61	K. Nikitha	nikithakasarala@gmail.com	8179787337	Nikitha	Nikitha	Nikitha	Nikitha	Nikitha
62	Nilisha	nithunisha96@gmail.com	7794033994	Nilisha	Nilisha	Nilisha	Nilisha	Nilisha
63	Samreen Javed	samreenjaved1999@gmail.com	9818587551	Samreen	Samreen	Samreen	Samreen	Samreen
64	Abrar Anamadi Mirza	abrarmirza512@gmail.com	7702939015	Abrar	Abrar	Abrar	Abrar	Abrar
65	Lakavathi Lalitha	lalithakavathi855@gmail.com	8795653855	Lakavathi	Lakavathi	Lakavathi	Lakavathi	Lakavathi
66	Kambala Kethana Rao	kambalakeethanaroo@gmail.com	9949209565	Kambala	Kambala	Kambala	Kambala	Kambala
67	K.Navya	katerinavya@gmail.com	9177198013	K.Navya	K.Navya	K.Navya	K.Navya	K.Navya
68	S.suthi	Sriramsruthiravi@gmail.com	9133322724	S.suthi	S.suthi	S.suthi	S.suthi	S.suthi

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Handwritten notes and signatures in the right margin, including a large signature at the bottom right.

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RX

Machine Learning with Python Day Wise

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Day -2	<ul style="list-style-type: none">• Conditions and Branching• Loops• Functions• Packages• Machine Learning Tools & Packages• Introduction to python programming and Environment Setup• Python Basics• Data types• Expressions and Variables• String Operations• Python Data Structures• Python Programming Fundamentals• Python - Files I/O<ul style="list-style-type: none">○ File Handling○ Create a New File○ Write to an Existing File○ Delete a File• Python - Exceptions Handling<ul style="list-style-type: none">○ What is Exception?○ Handling an exception○ Argument of an Exception○ Raising an Exceptions○ User-Defined Exceptions
Day-3	<ul style="list-style-type: none">• Python - Object Oriented<ul style="list-style-type: none">○ Overview of OOP Terminology○ Creating Classes○ Creating Instance Objects○ Accessing Attributes○ Built-In Class Attributes• Working with Data in Python<ul style="list-style-type: none">○ Reading files with open○ Writing files with open○ Loading data with Pandas

	<ul style="list-style-type: none"> ○ Working with and Saving data with Pandas ● Introduction to Visualization Tools <ul style="list-style-type: none"> ○ Introduction to Data Visualization ○ Introduction to Matplotlib ○ Basic Plotting with Matplotlib ○ Dataset on Immigration to Canada ○ Line Plots
Day-4	<ul style="list-style-type: none"> ● Fundamentals of Machine Learning ● Supervised & Unsupervised learning ● Regression & Classification ● Machine Learning Terminology ● Introduction to Scikit-Learn Package ● Regression Analysis ● Linear Regression
Day-5	<ul style="list-style-type: none"> ● Multiple Linear Regression ● Polynomial Regression
Day-6	<ul style="list-style-type: none"> ● Decision Tree Regression ● Random Forest Regression ● Selection of Right Regression Model
Day-7	<ul style="list-style-type: none"> ● Introduction to Classification Problems ● Logistic Regression ● K-Nearest Neighboring ● Support Vector Machine
Day-8	<ul style="list-style-type: none"> ● Naive-Bayes ● Decision Tree ● Random Forest
Day -9	<ul style="list-style-type: none"> ● Introduction to IBM Cloud ● Introduction to Watson Studio ● Building Machine learning model in Watson Studio ● Deploying Machine Learning as web services
Day -10	<ul style="list-style-type: none"> ● Introduction to IBM Node-red ● Integrating Machine Learning model to IBM Node-red ● Building Web Application

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Department of CSE

Report of Summer Internship IoT, AI, ML Training Program

Introduction: Internet of Things (IoT) & IoT Applications

- IOT Applications & projects
- IOT Architecture & Deployment models
- Building Blocks of IOT
- Applications

Software Installations

IoT Devices & Open Hardware Platforms

- Introduction to Open Hardware Platforms
- Introduction to ESP8266 development board (ESP12E)
- Programming Analog & Digital I/O's with Arduino IDE
- Integrate Analog & Digital Sensors with ESP8266
- Introduction to DHT11 Sensor
- Integrate DHT11 Sensor with ESP8266
- working with servo motor

IoT Communication Technologies & Protocols

- Short range & Long range communication technologies
- Wired & Wireless Communications Low Power communications technologies
- Introduction to Serial Communications (UART, SPI, I2C, BLE)
- IP Based Communications – Ethernet, Wi-Fi, 6LoWPAN, GPRS Radio Communications – RF, NFC, RFID
- Explore Serial Communications (UART, SPI, I2C)
- Explore Bluetooth Communication & integrating Bluetooth module to nodemcu
- Explore I2C Communication & working with OLED display
- Explore Radio Frequency Communication & working with NRF Modules

Introduction to communication models

- Device Network Connectivity
- Client - Server Communication Model
- Publish - Subscribe Communication Model
- Working with ESP8266WIFI & ESP8266WEBSERVER libraries
- Smart Home Automation using ESP8266
- Introduction to Msg 91 messaging platform
- Sending messages using HTTP requests using ESP8266
- Importance of IOT Platform & its generic Architecture
- Getting Started with IBM Watson IOT Platform
- connect online sensor to IBM cloud and Visualizing real-time data by using boards and cards
- Connect ESP8266 to Watson IOT Platform
- Send Sensor data to Watson IOT Platform using MQTT and HTTP

- Visualizing real-time data by using boards and cards
- Introduction to CloudantNoSQL DB
- Query and Process Watson IoT Device Data from CloudantNoSQL DB
- API & Client Libraries for CloudantNoSQL DB

Application Development with Node-RED & MIT App Inventor

- Introduction to Application Development
- MIT App Inventor for Android App Development
- Perform Retrieve & Update data operations from MIT App Inventor
- Introduction to Node-RED • Web App development using NodeRED
- Create a Node-RED application to send commands to device

IoT Gateways & Gateway Programming

- Introduction to IOT Gateways
- Purpose of IoT Gateway
- Introduction to Raspberry Pi
- OS Installation & Configurations
- Python Programming
- Programming GPIO pins
- Integrating Digital I/O with Raspberry Pi
- Explore ultrasonic sensor and integrating it with Raspberry Pi
- Making the Raspberry Pi as MQTT Broker
- Introduction to IBM Watson Conversation Service
- Create an Instance of Conversation Service
- Create a simple conversation App
- Work on Recipe - Talk to your Sensor using the Watson IoT Platform
- Fundamentals of Machine Learning
- Supervised & Unsupervised learning
- Regression & Classification
- Machine Learning Terminology
- Introduction to Scikit-Learn Package
- Regression Analysis
 - Linear Regression Introduction to Classification Problems
 - Logistic Regression
 - K-Nearest Neighboring
 - Support Vector Machine
- Introduction to IBM Cloud
- Introduction to Watson Studio
- Building Machine learning model in Watson Studio
- Deploying Machine Learning as web services
 - Naive-Bayes
 - Decision Tree
 - Random Forest

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