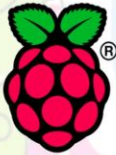


# SYNCOM

## NEWS LETTER OF E.C.E

Voice of Electronics and Communication Engineering

October 2020, Volume.05 Issue.10



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### Student Coordinators:

Mr.P.Komal VenkatSai  
Ms.Dasari Anitha  
Ms.Ch.Naveena

### Editors:

Dr.Sk.Sadulla. HOD-ECE  
Mr.Maduguri Sudhir  
Ms.Nuthalapati Soniya

**KITS** KKR & KSR INSTITUTE OF  
TECHNOLOGY & SCIENCES



## VISION, MISSION & PEO'S

### Vision

Developing highly Qualitative, Technically Competent and Socially Responsible Engineers.



### Mission

To provide quality education in the domain of Electronics and Communication Engineering through

- Enriched curriculum for addressing the needs of Industry.
- Effective teaching learning processes through congenial environment.
- Gaining contemporary knowledge through research, development, curricular, co and extra-curricular.



### ECE Program Educational Objectives

Graduates of Electronics & Communication Engineering Shall

**PEO1:** Develop a strong background in basic science and mathematics and ability to use these tools in their chosen fields of specialization.

**PEO2:** Have the ability to demonstrate technical competence in the fields of electronics and communication engineering and develop solutions to the problems.

**PEO3:** Attain professional competence through life-long learning such as advanced degrees, professional registration, and other professional activities.

**PEO4:** Function effectively in a multi-disciplinary environment and individually, within a global, societal, and environmental context.

**PEO5:** Take individual responsibility and to work as a part of a team towards the fulfillment of both individual and organizational goals.

The institute is a symbol of egalitarian outlook without discretions. KITS student activity council is organized exclusively by students with representatives from various disciplines stands for the advocacy of democracy and leadership opportunities provided by the institute.. **KITS imparts Outcome Based Education (OBE)** which gives equal opportunities to teaching and learning curricular, co-curricular and extra-curricular activities

# TATA CONSULTANCY SERVICES

# <C\*deVita/>

**Poluri Venkata Naga Sai Bharadwaj(17JR1A04G1)** got placed in TCS Code Vita.

Being appointed to the very first job or getting a new job is always a moment of great significance in one's life. A new job proposes a lot of opportunities to succeed in a career, so it indeed is a precious thing to celebrate!! **Mr.Poluri Venkata Naga Sai Bharadwaj** working in a new environment can be nerve-wracking, so boost up their confidence and wish them good luck through some heartwarming best wishes for a new job!

Codevita is not just a game, it's Culture! It connects people from varied backgrounds and ethnicities regardless of physical and cultural boundaries. It is also a great way to compete beyond borders and a lot of fun. At TCS, we firmly believe in this philosophy that programming can be both fun and challenging, this led to the inception of "CodeVita - To Promote Programming as a Sport".



The banner features a blue header with the TCS logo and tagline, and an orange main section with the CodeVita logo and contest details.

TATA CONSULTANCY SERVICES  
Experience certainty.

TATA

<C\*deVita/>  
The TCS Global Coding Contest  
Showcase your coding skills  
Compete with your peers locally and globally



# STUDENT ACHIEVEMENT

The students of Electronic and Communication Engineering completed some courses in Courseera.

**Total Num of students benefited : 45**

**Total num of courses: 33**

Courseera is an American massive open online course (MOOC) provider founded in 2012 by Stanford University's computer science professors Andrew Ng and Daphne Koller that offers massive open online courses (MOOC), specializations, degrees, professional and mastertrack courses.



Courseera works with universities and other organizations to offer online courses, certifications, and degrees in a variety of subjects.

S.No	Name of Student	Name of course
1	Ashrin Shaik	Courseera: Usable Security
2	Ashrin Shaik	Courseera:AI for everyone
3	A.Sakunthala Pranathi	Courseera:What is datascience
4	A.Sakunthala Pranathi	Courseera: Data science Methodology
5	A.Sri Pushpa	Courseera:What is datascience
6	A.Sri Pushpa	Courseera:Programming for Eveybody

7	Bhagyasri kota	Coursera:Programming for Eveybody
8	B.Nagamani	Coursera:Programming for Eveybody
9	B.Haritha	Coursera:Programming for Eveybody
10	Ch.Kavyasri	Coursera:Programming for Eveybody
11	D.Ramya	Coursera:Programming for Eveybody
12	D.Ramya	Coursera:What is datascience
13	Greeshma sri korrapati	Coursera:AI for everyone
14	Greeshma sri korrapati	Coursera:Programming for Eveybody
15	JAHNAVI KANCHETI	Coursera:AI for everyone
16	K Venkata Lakshmi	Coursera:AI for everyone
17	K Venkata Lakshmi	Coursera:Programming for Eveybody
18	K. Gayatri Devi	Coursera: Python Basics
19	K. Gayatri Devi	Coursera: Python Basics
20	K.Bhagyasri	Coursera:Programming for Eveybody
21	K.Divya	Coursera:AI for everyone
22	K.Divya	Coursera:What is datascience
23	K.Divya	Coursera:Introduction to Programming withMATLAB
24	K.Divya	Coursera:AI for everyone
25	K.Divya	Coursera: What is data sciences?
26	K.Naga Lakshmi Madhuri	Coursera:Programming for Eveybody
27	K.Naga Lakshmi Madhuri	Coursera:Introduction to Programming withMATLAB
28	K.Naga Lakshmi	Coursera:AI for everyone

	Madhuri	
29	K.Naimisha prasanna	Coursera:Programming for Eveybody
30	K.Naimisha prasanna	Coursera: Introduction to Artificial Intelligence(AI)
31	K.Preethi	Coursera:AI for everyone
32	K.Tejasree	Coursera:Programming for Eveybody
33	K.Tejasree	Coursera:AI for everyone
34	K.Tejasree	Coursera:AI for everyone
35	K.Tejasree	Coursera:Programming for Eveybody
36	K.Venkat Lakshmi	Coursera:AI for everyone
37	L. Lourd sasirekha	Coursera:Wireless communications for everybody
38	L. Lourd sasirekha	Coursera:Programming for Eveybody
39	L. Lourd sasirekha	coursera: write professional emails in English
40	M. Sai Mounika	Coursera:Programming for Eveybody
41	M. Sai Mounika	Coursera: PYTHON FOR DATA SCIENCES AND AI
42	M.Revathi	Coursera:Create your first pytho program
43	M.Revathi	Coursera:AI for everyone
44	M.Revathi	Coursera:AI for everyone
45	M.Revathi	Coursera:Create your first pytho program
46	M.srisha	Coursera: What is data sciences?
47	M.srisha	Coursera:AI for everyone
48	M.srisha	Coursera:Programming for Eveybody
49	M.V.N.Sukanya	Coursera:AI for everyone

50	Md. Afsha	Coursera:Programming for Eveybody
51	Md.Firdosia Parveen	Coursera:Programming for Eveybody
52	merugumala kezia swarnasri	Coursera:AI for everyone
53	mohammad firdosia praveen	Coursera:Programming for Eveybody
54	N.Lakshmi Chandhana	Coursera:AI for everyone
55	N.Lakshmi Chandhana	Coursera:Programming for Eveybody
56	N.Mounica	Coursera:Programming for Eveybody
57	N.Poojasree	Coursera:Programming for Eveybody
58	N.Sahithi	Coursera:AI for everyone
59	N.Sahithi	Coursera:AI for everyone
60	N.Sindhu Sri	Coursera: AWS Fundamentals:Addressing Security Risk
61	N.Sindhu Sri	Coursera: blockchain 360
62	N.Sindhu Sri	Coursera:AI for everyone
63	N.Sindhusree	Coursera:Wireless communications for everybody
64	N.Sindhusree	Coursera:Blockchain Basics
65	N.Sindhusree	Coursera:AWS Fundamental going cloudnative
66	N.Sindhusree	Coursera:Network security and data base
67	N.Sindhusree	Coursera:Cyber security rule and operating system security
68	N.Sindhusree	Coursera:Introduction to cyber security tools and Attacks
69	N.Sindhusree	Coursera:Wireless communications for everybody

70	N.Sindhusree	Coursera: Blockchain Basics
71	N.Sindhusree	Coursera:AWS Fundamental going cloudnative
72	N.Sindhusree	Coursera: Network security & Database Vulnerabilities
73	N.Sindhusree	Coursera: Business English: Networking
74	N.Sindhusree	Coursera: Introduction to cybersecurity tools & cyber attacks
75	N.Sindhusree	Coursera: AWS Fundamentals:Addressing Security Risk
76	N.Sindhusree	Coursera:Cyber security rule and operating system security
77	N.Sindhusree	Coursera: blockchain 360: A state of the Art for professionals
78	N.Sindhusree	Coursera:AWS Fundamentals: Migrating to the cloud
79	N.Sindhusree	Coursera:AI for everyone
80	N.Sowmya	Coursera:Cyber security rule and operating system security
81	N.Sowmya	Coursera:Network security and data base
82	N.Sowmya	Coursera:IT Infrastructures and emerging trends
83	N.Sowmya	Coursera: AWS Fundamentals:Addressing Security Risk
84	N.Sowmya	Coursera: cybersecurity compliance framework &system administration
85	N.Sowmya	Coursera: Introduction to cybersecurity tools & cyber attacks
86	N.Sowmya	Coursera: cybersecurity compliance framework &system administration
87	N.Sowmya	Coursera: AWS Fundamentals:Addressing Security Risk



88	N.Sowmya	Coursera: Cyber security rule and operating system security
89	N.Sowmya	Coursera: Network security & Database Vulnerabilities
90	N.Sowmya	Coursera: IT Infrastructures and emerging trends
91	N.Sowmya	Coursera: AWS Fundamental going cloudnative
92	N.Sowmya	Coursera: Introduction to Psychology
93	N.Sowmya	Coursera: AI for everyone
94	N.Sowmya	Coursera: AWS Fundamentals: Addressing Security Risk
95	P.Bhanu pranathi	Coursera: AI for everyone
96	P.Bhanu pranathi	Course: Differential Equations for Engineers
97	P.Jaya Varshini	Coursera: Wireless communications for everybody
98	P.Jaya Varshini	Coursera: Wireless communications for everybody
99	P.Madhuri	Coursera: Programming for Eveybody
100	P.Madhuri	Coursera: Introduction to HTML
101	P.Naga Vyshnavi	Coursera: Wireless communications for everybody
102	P.Naga Vyshnavi	Coursera: AI for everyone
103	pravallika mopidevi	Coursera: AI for everyone
104	Preethi Kousalya	Coursera: AI for everyone
105	Preethi Kousalya	Coursera: Programming for Eveybody
106	R.Sai Naga Srimukhi	Coursera: Introduction to Psychology
107	sirisha mekala	Coursera: What is data sciences?
108	sirisha mekala	Coursera: AI for everyone
109	sirisha mekala	Coursera: Programming for

		Eveybody
110	Sk.Ashrin	Coursera: usable Security
111	Sk.Farida Yasmin	Coursera: electric power system
112	Sk.Fiza	Coursera:Programming for Eveybody
113	Sk.Fiza	Coursera:Introduction to IOT and embedded systems
114	Sk.Fiza	Coursera:AI for everyone
115	Sk.Fiza	Coursera:Programing for Eveybody
116	Sk.Fiza	Coursera:AI for everyone
117	Sk.Fiza	Coursera:Introduction to IOT and embedded systems
118	Sk.Fiza	Coursera:Introduction to HTML
119	Sk.Md.Asheed	Coursera:AI for everyone
120	T Momin Anjum	Coursera:AI for everyone
121	T.Rohita	Coursera: cybersecurity compliance framework &system administration
122	V.Alekya	Coursera:Facial Expression ,recog with Keras
123	V.Nagalakshmi	Coursera: electric power system
124	Y.Rahul	Coursera: Vector Calculations for Engineers

# DATA SCIENCE



## What Is Data Science

Data science can be defined as a blend of mathematics, business acumen, tools, algorithms and machine learning techniques, all of which help us in finding out the hidden insights or patterns from raw data which can be of major use in the formation of big business decisions.

In data science, one deals with both structured and unstructured data. The algorithms also involve predictive analytics in them. Thus, data science is all about the present and future. That is, finding out the trends based on historical data which can be useful for present decisions and finding patterns which can be modelled and can be used for predictions to see what things may look like in the future.

Data Science is an amalgamation of Statistics, Tools and Business knowledge. So, it becomes imperative for a Data Scientist to have good knowledge and understanding of these.

Data science is an inter-disciplinary field that uses scientific methods, processes, algorithms and systems to extract knowledge and insights from many structural and unstructured data. Data science is related to data mining, machine learning and big data.

## Why To Learn Data Science?

With the amount of data that is being generated and the evolution in the field of Analytics, Data Science has turned out to be a necessity for companies. To make most out of their data, companies from all domains, be it Finance, Marketing, Retail, IT or Bank. All are looking for Data Scientists. This has led to a huge demand for Data Scientists all over the globe. With the kind of salary that a company has to offer and IBM is declaring it as trending job of 21<sup>st</sup> century, it is a lucrative job for many. This field is such that anyone from any background can make a career as a Data Scientist.

## Components Of Data Science

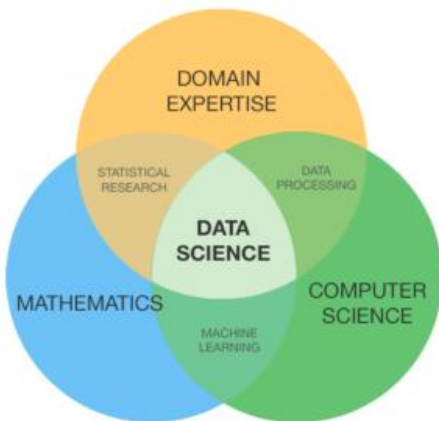
Data Science consists of 3 parts namely:

### Machine Learning:

Machine Learning involves algorithms and mathematical models, chiefly employed to make machines learn and prepare them to adapt to everyday advancements. For example, these days, time series forecasting is very much in use in trading and financial systems. In this, based on historical data patterns, the machine can predict the outcomes for the future months or years. This is an application of machine learning.

### Big Data:

Everyday, humans are producing so much of data in the form of clicks, orders, videos, images, comments, articles, RSS Feeds etc. These data are generally unstructured and is often called as Big Data. Big Data tools and techniques mainly help in converting this unstructured data into a structured form. For example, suppose someone wants to track the prices of different products on e-commerce sites..



### Business Intelligence:

Each business has and produces too much data every day. This data when analysed carefully and then presented in visual reports involving graphs, can bring good decision making to life. This can help the management in taking the best decision after carefully delving into patterns and details the reports bring to life.