

Hindustan College of Science & Technology, Farah, Mathura
Department of Electronics & Communication Engineering

2019/ EC/EVEN

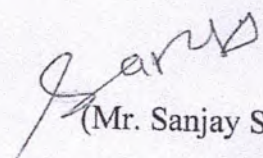
Date: 15.01.2019

Notice

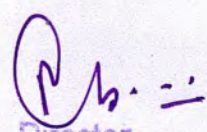
All the students of 2nd year, 3rd year and 4th year are hereby informed that the department of Electronics and Communication Engineering is going to schedule a Value Added Course on “**Introduction to Internet of Things (IOT)**”. This course has been specially designed to enhance your skills and knowledge beyond the regular academic curriculum, providing you with a competitive edge in today's dynamic job market.

Please note that registration will be open from 21/01/2019 to 29/01/2019. Late registrations will not be entertained, so ensure that you complete the registration process within the stipulated time frame.

For any further inquiries or clarifications regarding registration, kindly reach out to Mr. Sanjay Gupta (Lab Technician, ECE Deptt.).


(Mr. Sanjay Singh)
Dy. HOD ECE Deptt.

Head
Dept. of Electronics & Comm. Engg.
Hindustan College of Science & Techno...
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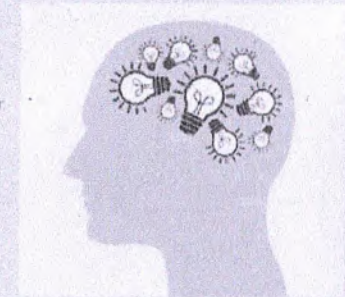
HINDUSTAN COLLEGE OF SCIENCE & TECHNOLOGY,
FARAH -MATHURA
DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING



Value Added Course
VEC1801 – Introduction to Internet of Things (IOT)

30th Jan '2019 – 07th May 2019 – Every Wednesday: 3:10 PM – 4:50 PM

Students From Any Branch Can Join the Course



By

Mr. Honey Kumar

Assistant Professor, Electronics & Communication Engineering

Research Interest: IoT based projects, VLSI Design

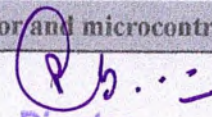
Registration Dates

21st Jan 2019 – 29th Jan 2019

For Registration: Please contact

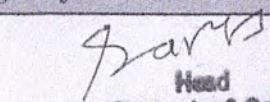
Mr. Sanjay Gupta, Lab Technician, Department of ECE

Prerequisites: Basic knowledge of knowledge of sensors, transducer, microprocessor and microcontroller, and programming in Python.



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VEC1801 - Introduction to Internet of Things (IOT)

30th Jan '2019 – 07th May 2019 – Every Wednesday: 3:10 PM – 4:50 PM

Course Objectives

The main objective of this value added course are as follows:

1. This course gives a foundation in the Internet of Things, including the components, tools, and analysis by teaching the concepts behind the IoT and a look at real-world solutions. This course will describe the technology used to build these kinds of devices, how they store data, and the kinds of distributed systems needed to support them.
2. Divided into five modules, we will learn by doing. We will start with basic definitions and concept of IoT.
3. This course focuses on the latest microcontrollers with application development, product design and prototyping using IoT supported hardwares. Ideally suited for engineering students and graduates with a basic understanding of electronics and microprocessors. They are also able to design & develop IoT Devices. Also gain insights about the current trends of Associated IOT technologies. The overall goal of this course is to enable you to build an IoT system from the ground up.

Course Syllabus

Units	Details	Course Out comes
1	INTRODUCTION TO IOT : What is Internet of Things ?, Getting started with IoT, How IOT became 21 st Century Hottest Topic, How Internet of Things works, How Things Talk to Internet	CO1
2	IOT ARCHITECHTURE : Three Layer Architecture, Four Layer Architecture, Five Layer Architecture	CO2
3	HARDWARE : Functional blocks of an IoT ecosystem, IoT – Sensors, Actuators, Wearable Electronics, Standard Devices, Smart Objects and Connecting Smart Objects	CO3
4	DESIGN AND DEVELOPMENT : Design Methodology, Embedded computing logic, Microcontroller, System on Chips, IoT system building blocks, IoT Platform overview: Overview of IoT supported Hardware platforms such as: Raspberry pi, Arduino Board	CO4
5	ASSOCIATED IOT TECHNOLOGIES : Cloud Computing: Introduction, Cloud Models, Service-Level Agreement in Cloud Computing, Cloud Implementation, Sensor-Cloud: Sensors-as-a-Service.	CO5

Prerequisites: Basic knowledge of knowledge of sensors, transducer, microprocessor and microcontroller, and programming in Python.

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Course Outcomes

- CO1** Understand the definition and concept of Internet of Things.
- CO2** Discuss the layered architecture of an IoT system and their operations.
- CO3** Able to understand the use of various basic hardware to design an IoT system.
- CO4** Design and development of IoT devices using IoT supported hardware platforms such as: Raspberry pi, Arduino Board.
- CO5** Explain Associated IoT Technologies.

CO-PO Mappings

CO5	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2
CO1	3											3	2	
CO2	2	2	2									3	2	
CO3	3	2	3									3		3
CO4	3		3									3		3
CO5	3	2	2									3		3
Average	2.8	2	2.5									3	2	3

Evaluation Criteria: 1. Class attendance, Group project and its presentation, Quiz and Viva.

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Value Added Course

VEC1801 - Introduction to Internet of Things (IOT)

30th Jan '2019 – 07th May 2019 – Every Wednesday: 3:10 PM – 4:50 PM

Program Schedule

Session	Date	Time	No of Lectures	Session Topic	Resource Person
1	30-01-2019	3:10 PM – 4:50 PM	2	Preamble of the course	Mr. Honey Kumar
2	06-02-2019	3:10 PM – 4:50 PM	2	Introduction to IOT : What is Internet of Things ?	Mr. Honey Kumar
3	13-02-2019	3:10 PM – 4:50 PM	2	Getting started with IoT, How IOT became 21 st Century Hottest Topic	Mr. Honey Kumar
4	27-02-2019	3:10 PM – 4:50 PM	2	How Internet of Things works	Mr. Honey Kumar
5	06-03-2019	3:10 PM – 4:50 PM	2	IOT Architecture: Three Layer Architecture	Mr. Honey Kumar
6	13-03-2019	3:10 PM – 4:50 PM	2	Four Layer Architecture,	Mr. Honey Kumar
7	27-03-2019	3:10 PM – 4:50 PM	2	Five Layer Architecture	Mr. Honey Kumar
8	03-04-2019	3:10 PM – 4:50 PM	2	Functional blocks of an IoT ecosystem	Mr. Honey Kumar
9	10-04-2019	3:10 PM – 4:50 PM	2	IoT – Sensors, Actuators	Mr. Honey Kumar
10	24-04-2019	3:10 PM – 4:50 PM	2	Wearable Electronics, Standard Devices	Mr. Honey Kumar
11	02-05-2019	3:10 PM – 4:50 PM	2	Smart Objects and Connecting Smart Objects	Mr. Honey Kumar
12	03-05-2019	3:10 PM – 4:50 PM	2	Design and Development: Design Methodology	Mr. Honey Kumar
13	04-05-2019	11:00 AM - 4:50 PM	6	Embedded computing logic, Microcontroller, System on Chips, IoT system building blocks	Mr. Honey Kumar
14	06-05-2019	11:00 AM - 4:50 PM	6	IoT Platform overview: Overview of IoT supported Hardware platforms such as: Raspberry pi, Arduino Board	Mr. Honey Kumar
15	07-05-2019	11:00 AM - 4:50 PM	6	Associated IOT Technologies: Cloud Computing: Introduction, Cloud Models, Service-Level Agreement in Cloud Computing, Cloud Implementation, Sensor-Cloud: Sensors-as-a-Service.	Mr. Honey Kumar
Total Number of Lectures covered			42 (35 Hours)		

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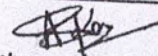
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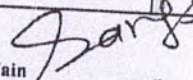
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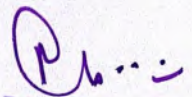
Hindustan College of Science and Technology - Mathura
Department Name: Electronics & Communication Engineering
CLASS TIME TABLE FOR EVEN SEMESTER 2018-19

SESSION:	2018-2019		W.E.F :	22/1/2019	CLASS TEACHER:		Rupali mahajan	
YEAR/SEM-SEC:	2nd/IV		ROOM.NO :	309				
Time / Day	I	II	III	IV	V	VI	VII	VIII
	10:10 TO 11:00	11:00 TO 11:50	11:50 TO 12:40	12:40 TO 01:30	01:30 TO 02:20	02:20 TO 03:10	03:10 TO 04:00	04:00 TO 04:50
MONDAY	DS AB 309	EE SA 309	EMFT SS 309	EMFT SS 309	LUNCH	EMI ML 309	EMI LAB DG/K.B.SINGH 308	
TUESDAY	EMI ML 309	PDP		MPMC RM 309		AD.ELECT.LAB HK/K.B.SINGH 316		NS/DM VK/VR 309/315
WEDNESDAY	DS AB 309	NS/DM VK/VR 309/315	MPMC RM 309	EE SA 309		EMFT(T) SS 309	Introduction to IOT(VAC)/HK	
THURSDAY	EMI ML 309	MPMC RM 309	DS AB 309	EMFT SS 309		MPMC LAB AS/SANJAY GUPTA 316		NS/DM VK/VR 309/315
FRIDAY	DS AB 309	EMI ML 309	NS/DM VK/VR 309/315	EMFT SS 309		PDP		MPMC RM 309
SATURDAY	NS/DM VK/VR 309/315	MPMC RM 309	EE SA 309	EMI ML 309		DS AB 309	DS LAB AB/RAKESH 302	

Name of the Subject	Subject Code	Name of the Faculty	Total No. of Lect./Tut./Practical		
			Lect.	Tut.	Pract.
Microprocessors & Microcontrollers	REC401	Rupali Mahajan(RM)	4	1	0
Electromagnetic Field Theory	REC402	Sanjay singh(SS)	4	1	0
Electronic Measurement & Instrumentation	REC403	A. Mukund Lal(ML)	4	1	0
Nano science/Discrete mathematics	ROE042	Inod Kushwaha(VK)/Vandana Rathor(VR)	4	1	0
Data Structure & Algorithms	RCS406	Atul Brsania(AB)	4	1	0
Environment & Ecology	RAS 402	Somesh Ajanavi(SA)	4	1	0
Microprocessors & Microcontrollers Lab	REC451	Rupali Mahajan(RM)/Mohit Gupta(MG)	3	0	0
Advanced Electronics System Lab	REC452	Sanjay singh(SS)/TSS.Senthil			2
Data Structure & Algorithms Lab	RCS 456	Atul Brsania(AB)			2
Electronic Measurement & Instrumentation Lab	REC453	Deepiti Gupta(DG)/TSS Senthil			2
Introduction to IOT(VAC)	VEC1801	Honey Kumar(HK)			2

Signature 
 Time Table Incharge: Ajeet Singh

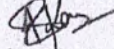
Signature 
 HOD: Prof. Sanjay Jain
 Head
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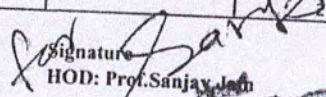

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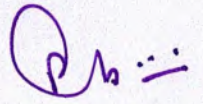
Hindustan College of Science and Technology - Mathura
Department Name: Electronics & Communication Engineering
CLASS TIME TABLE FOR EVEN SEMESTER 2018-19

SESSION:	2018-2019		W.E.F :	22/1/2019	CLASS TEACHER:		Mrs Deepti Gupta(DG)			
YEAR/SEM-SEC:	3rd/VI		ROOM.NO :	306	LUNCH					
Time / Day	I	II	III	IV			V	VI	VII	VIII
	10:10 TO 11:00	11:00 TO 11:50	11:50 TO 12:40	12:40 TO 01:30			01:30 TO 02:20	02:20 TO 03:10	03:10 TO 04:00	04:00 TO 04:50
MONDAY	CS SJ 324	IM RK 324	MW DG 324	RE ML 324			LUNCH	CS SJ 324	MW DG 324	
TUESDAY	CS SJ 324	RE ML 324	DC HPR 324	CS SJ 324				PDP		MW DG 324
WEDNESDAY	DC HPR 324	IM RK 324	COMM-II LAB SS/SANJAY GUPTA 305					CS SJ 324	Introduction to IOT(VAC)/HK	
THURSDAY	IM RK 324	RE ML 324	IS AG 324	MW DG 324				DC HPR 324	MW LAB DG/RAKESH 314	
FRIDAY	MW DG 324	PDP		IS AG 324				DC HPR 324	RE ML 324	DC HPR 324
SATURDAY	IM RK 324	IS AG 324	CONTROL SYSTEM LAB HO/RAKESH 302					RE ML 324	µc lab RM/SANJAY GUPTA 316	

Name of the Subject	Subject Code	Name of the Faculty	Total No. of Lect./Tut./Practical		
			Lect.	Tut.	Pract.
Control System I	RIC603	Dr.Sanjay jain(SJ)	4	1	0
Microwave Engineering	REC601	Deepti Gupta(DG)	4	1	0
Digital Communication	REC602	Himanshu P. Rajput(HPR)	4	1	0
RADAR Engineering	REC065	A.Mukund Lal(ML)	4	1	0
Industrial Management	RAS 60J	Dr. Rajkumari(RK)	3	0	0
Sociology	RAS 602	Archana Gautam(AG)	3	0	0
Microwave Engg Lab	REC-651	Deepti Gupta(DG)/Mohit Gupta(MG)		2	2
Communication Lab- II	REC-652	Sanjay singh(SS)/MohitGupta		2	2
Control System Lab-I	RIC-653	Himanshu P. Rajput(HPR)/TSS Senthil		2	2
Microcontrollers For Embedded Systems Lab	RIC651	Rupali Mahajan(RM)/TSS.Senthil		2	2
Introduction to IOT(VAC)	VEC1801	Honey Kumar(HK)		2	2

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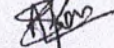
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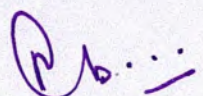

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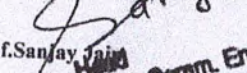
Hindustan College of Science and Technology - Mathura
Department Name: Electronics & Communication Engineering
CLASS TIME TABLE FOR EVEN SEMESTER 2018-19

SESSION:	2018-2019		W.E.F :	22/1/2019	CLASS TEACHER:		A.Mukund Lal(ML)		
YEAR/SEM-SEC:	4th/VIII		ROOM.NO :	312	Counsellor		Honey Kumar(HK)		
Time / Day	I 10:10 TO 11:00	II 11:00 TO 11:50	III 11:50 TO 12:40	IV 12:40 TO 01:30	V 01:30 TO 02:20	VI 02:20 TO 03:10	VII 03:10 TO 04:00	VIII 04:00 TO 04:50	
MONDAY	OCN SS 312	NCER DG 312	WMC ML 312	LUNCH	SRS DG 312	PROJECT			
TUESDAY	OCN SS 312	SRS DG 312	NCER DG 312		SRS(A1)/OCN(A2) DG/SS 312/315	PROJECT			
WEDNESDAY	NCER DG 312	WMC ML 312	SRS(A2)/WMC(A1) DG/ML 312/315		SRS DG 312	PROJECT	Introduction to IOT(VAC)/HK		
THURSDAY	NCER DG 312	OCN SS 312	OCN(A1)/WMC(A2) SS/ML 312/315		WMC ML 312	PROJECT			
FRIDAY	OCN SS 312	SRS DG 312	WMC ML 312		NCER DG 312	PROJECT			
SATURDAY	PROJECT								

Name of the Subject	Subject Code	Name of the Faculty	Total No. of Lect./Tut./Practical		
			Lect.	Tut.	Pract.
NCER					
Satellite & RADAR systems	NOE-081	Deepti Gupta(DG)	5	0	0
Wireless & Mobile Communication	NEC 045	Deepti Gupta(DG)	4	2	0
Optical Network	NEC 801	A.Mukund Lal(ML)	4	2	0
Project	NEC 802	Sanjay singh(SS)	4	2	0
Introduction to IOT(VAC)	NEC 851	Deepti Gupta(DG)/Mohit Gupta(MG)/TSS Sent			0
	VEC1801	Honey Kumar(HK)			12
					2

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Department of ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course - Registration Sheet

Course Name: Introduction to Internet of Things (IOT) Course Code: VEC1801

Session 2018-19

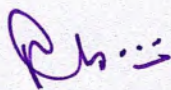
From January, 2019 to May, 2019

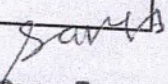
Sr. No.	Roll No.	Name	Department	Semester
1	1706431001	Abhishek Kumar	ECE	IV
2	1706431002	Akshat Jain	ECE	IV
3	1706431003	Ayush Gupta	ECE	IV
4	1706431004	Ayushi Shakya	ECE	IV
5	1706431005	Divakar Yadav	ECE	IV
6	1706431006	Harshit Agarwal	ECE	IV
7	1706431007	Isika Gupta	ECE	IV
8	1706431008	Jitendra Sharma	ECE	IV
9	1706431009	Nikhil Tiwari	ECE	IV
10	1706431010	Pragati Agrawal	ECE	IV
11	1706431011	Pratiksha Mishra	ECE	IV
12	1706431012	Prerna Sharma	ECE	IV
13	1706431013	Priyanka Maurya	ECE	IV
14	1706431014	Sagar Varshney	ECE	IV
15	1706431015	Sanjana Pradhan	ECE	IV
16	1706431016	Saurabh Singh	ECE	IV
17	1706431017	Shilpi Kumari	ECE	IV
18	1706431019	Shivangi Srivastava	ECE	IV
19	1706431020	Shubh Sharma	ECE	IV
20	1706431021	Sonam Sikarwar	ECE	IV
21	1706431023	Tadinada Sairatna Kishore Rao	ECE	IV
22	1706431024	Utkarsh Pundeer	ECE	IV
23	1806431901	Aditya Pratap Singh	ECE	IV
24	1806431902	Naman Jain	ECE	IV
25	1506431024	Kshitij Jain	ECE	IV
26	1506431025	Kumar Vishwabhanu	ECE	VI
27	1606440032	Chetan Sharma	ECE	VI
28	1606431001	Abhishek	ECE	VI
29	1606431004	Akanksha Yadav	ECE	VI
30	1606431005	Anurag Kant	ECE	VI
31	1606431006	Anushka Mishra	ECE	VI

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32	1606431007	David Rajour	ECE	VI
33	1606431008	Deepanshi Sharma	ECE	VI
34	1606431009	Dheeraj Bansal	ECE	VI
35	1606431011	Divya Kumar Verma	ECE	VI
36	1606431012	Divya Priya	ECE	VI
37	1606431014	Hemendra Karki	ECE	VI
38	1606431015	Hritik Dubey	ECE	VI
39	1606431016	Jyoti Bhardwaj	ECE	VI
40	1606431017	Kajal Sharma	ECE	VI
41	1606431018	Mehul Varshney	ECE	VI
42	1606431019	Neha Chauhan	ECE	VI
43	1606431020	Numaan Khan	ECE	VI
44	1606431021	Piyush Gupta	ECE	VI
45	1606431022	Pratik Gupta	ECE	VI
46	1606431023	Pritam Rai	ECE	VI
47	1606431026	Saurabh Tietlar	ECE	VI
48	1606431027	Shalini Dwivedi	ECE	VI
49	1606431028	Shaswat Srivastava	ECE	VI
50	1606431029	Shikhar Gupta	ECE	VI
51	1606431032	Tanisha Dheer	ECE	VI
52	1606431033	Vaibhav Batra	ECE	VI
53	1606431034	Vaibhav Singh	ECE	VI
54	1606431035	Vidushika Agarwal	ECE	VI
55	1706431801	Anil Kumar Yadav	ECE	VI
56	1706431901	Gaurav Jain	ECE	VI
57	1706431902	Priyanka Kushwah	ECE	VI
58	1506431002	Rimjhim Sharma	ECE	VI
59	1506431003	Akanksha Bhardwaj	ECE	VIII
60	1506431004	Akshaya Pandey	ECE	VIII
61	1506431005	Aman Goyal	ECE	VIII
62	1506431006	Aman Raw	ECE	VIII
63	1506431008	Amit Kumar Singh	ECE	VIII
64	1506431009	Anushka Singh	ECE	VIII
65	1506431010	Arpit Saxena	ECE	VIII
66	1506431011	Ashish Kumar	ECE	VIII
67	1506431012	Ayush Gupta	ECE	VIII
68	1506431014	Balwant Kumar Gupta	ECE	VIII
69	1506431015	Daisy Manmohan Singh	ECE	VIII
70	1506431017	Divyam Verma	ECE	VIII


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71	1506431018	Gaurav Sharma	ECE	VIII
72	1506431019	Girija S Dwivedi	ECE	VIII
73	1506431020	Harsh Pandey	ECE	VIII
74	1506431021	Himanshu Chaudhary	ECE	VIII
75	1506431026	Himanshu Singh	ECE	VIII
76	1506431027	Shanya Singh	ECE	VIII
77	1506431028	Shivani Singh	ECE	VIII
78	1506431029	Kushagra Dwivedi	ECE	VIII
79	1506431031	Luv Madaan	ECE	VIII
80	1506431032	Mahesh Mishra	ECE	VIII
81	1406431033	Mohit Bhargava	ECE	VIII
82	1506431033	Mukul Gupta	ECE	VIII
83	1506431035	Raj Vardhan	ECE	VIII
84	1506431036	Rishabh Katiyar	ECE	VIII
85	1506431037	Rishabh Wadhwa	ECE	VIII
86	1506431038	Ritesh Kumar Singh	ECE	VIII
87	1506431039	Sakshi Bansal	ECE	VIII
88	1506431040	Sandhya Kc	ECE	VIII
89	1506431022	Satyam	ECE	VIII
90	1506431041	Satyam Saxena	ECE	VIII
91	1506431042	Shashank Shekhar Singh	ECE	VIII
92	1506431023	Shivam Srivastava	ECE	VIII
93	1506431043	Shreyam Keshri	ECE	VIII
94	1506431044	Shruti Mishra	ECE	VIII
95	1506431045	Shubham Kumar Mourya	ECE	VIII
96	1506431046	Sohil Garg	ECE	VIII
97	1506431047	Stuti Badal	ECE	VIII
98	1506431048	Tanishka Mittal	ECE	VIII
99	1506431051	Tushar Kukreja	ECE	VIII
100	1506431052	Unnati Bhaskar	ECE	VIII

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Department of ELECTRONICS AND COMMUNICATION ENGINEERING

Value Added Course - Attendance sheet

Course Name: Introduction to Internet of Things (IOT) Course Code: VEC1801

Session 2018-19 (Year-2019)

Session wise Attendance Sheet

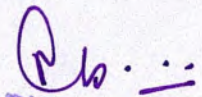
S. No.	Roll No.	Name	SEM	Signature of the Student														
				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
				30-Jan	6-Feb	13-Feb	27-Feb	6-Mar	13-Mar	27-Mar	3-Apr	10-Apr	24-Apr	2-May	3-May	4-May	6-May	7-May
1	1706431001	Abhishek Kumar	IV	P	P	A	P	P	P	P	A	P	P	P	P	P	P	P
2	1706431002	Akshat Jain	IV	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
3	1706431003	Ayush Gupta	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
4	1706431004	Ayushi Shakya	IV	P	A	P	P	A	P	P	P	P	A	P	P	P	P	P
5	1706431005	Divakar Yadav	IV	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P
6	1706431006	Harshit Agarwal	IV	P	P	P	A	P	P	P	A	P	P	P	P	P	P	P
7	1706431007	Isika Gupta	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
8	1706431008	Jitendra Sharma	IV	P	P	A	P	P	P	P	P	P	A	P	P	P	P	P
9	1706431009	Nikhil Tiwari	IV	P	P	P	P	P	A	P	P	P	P	A	P	P	P	P
10	1706431010	Pragati Agrawal	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
11	1706431011	Pratiksha Mishra	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
12	1706431012	Prerna Sharma	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
13	1706431013	Priyanka Maurya	IV	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
14	1706431014	Sagar Varshney	IV	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P
15	1706431015	Sanjana Pradhan	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
16	1706431016	Saurabh Singh	IV	P	P	P	P	A	P	P	P	P	P	P	P	P	P	P
17	1706431017	Shilpi Kumari	IV	P	P	P	A	P	P	P	P	A	P	P	P	P	P	P
18	1706431019	Shivangi Srivastava	IV	P	P	P	P	A	P	P	P	P	A	P	P	P	P	P
19	1706431020	Shubh Sharma	IV	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
20	1706431021	Sonam Sikarwar	IV	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P

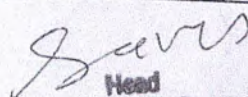
(Signature)

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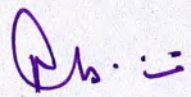
(Signature)
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Dept. of Electronics & Comm. Engg.
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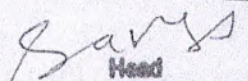
21	1706431023	Tadinada Sairatna Kishore Rao	IV	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P
22	1706431024	Utkarsh Pundeer	IV	P	P	P	P	P	A	P	P	A	P	P	P	P	P	P
23	1806431901	Aditya Pratap Singh	IV	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
24	1806431902	Naman Jain	IV	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
25	1506431024	Kshitij Jain	VI	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
26	1506431025	Kumar Vishwabhanu	VI	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P
27	1606440032	Chetan Sharma	VI	P	A	P	P	P	P	P	A	P	P	P	P	P	P	P
28	1606431001	Abhishek	VI	A	P	P	P	P	P	A	P	P	P	P	P	P	P	P
29	1606431004	Akanksha Yadav	VI	P	P	P	A	P	P	A	P	P	P	P	P	P	P	P
30	1606431005	Anurag Kant	VI	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
31	1606431006	Anushka Mishra	VI	P	P	P	P	P	A	P	A	P	P	P	P	P	P	P
32	1606431007	David Rajour	VI	P	P	A	A	P	P	P	P	P	P	P	P	P	P	P
33	1606431008	Deepanshi Sharma	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
34	1606431009	Dheeraj Bansal	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
35	1606431011	Divya Kumar Verma	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
36	1606431012	Divya Priya	VI	P	P	P	P	A	P	P	P	A	P	P	P	P	P	P
37	1606431014	Hemendra Karki	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
38	1606431015	Hritik Dubey	VI	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
39	1606431016	Jyoti Bhardwaj	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
40	1606431017	Kajal Sharma	VI	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
41	1606431018	Mehul Varshney	VI	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
42	1606431019	Neha Chauhan	VI	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
43	1606431020	Numaan Khan	VI	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
44	1606431021	Piyush Gupta	VI	P	P	P	P	P	A	P	P	P	P	P	P	P	P	P
45	1606431022	Pratik Gupta	VI	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P
46	1606431023	Pritam Rai	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
47	1606431026	Saurabh Tietlar	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
48	1606431027	Shalini Dwivedi	VI	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P


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49	1606431028	Shaswat Srivastava	VI	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P	P
50	1606431029	Shikhar Gupta	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
51	1606431032	Tanisha Dheer	VI	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
52	1606431033	Vaibhav Batra	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
53	1606431034	Vaibhav Singh	VI	P	P	P	A	P	A	P	P	P	P	P	P	P	P	P	P
54	1606431035	Vidushika Agarwal	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
55	1706431801	Anil Kumar Yadav	VI	P	P	A	P	P	A	P	P	P	P	P	P	P	P	P	P
56	1706431901	Gaurav Jain	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
57	1706431902	Priyanka Kushwah	VI	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
58	1506431002	Rimjhim Sharma	VIII	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
59	1506431003	Akanksha Bhardwaj	VIII	P	P	P	P	P	P	P	A	A	P	P	P	P	P	P	P
60	1506431004	Akshaya Pandey	VIII	A	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
61	1506431005	Aman Goyal	VIII	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
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73	1506431020	Harsh Pandey	VIII	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
74	1506431021	Himanshu Chaudhary	VIII	P	P	P	P	A	A	P	P	P	P	P	P	P	P	P	P
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76	1506431027	Shanya Singh	VIII	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
77	1506431028	Shivani Singh	VIII	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P
78	1506431029	Kushagra Dwivedi	VIII	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
79	1506431031	Luv Madaan	VIII	P	P	P	P	P	P	P	A	P	P	A	P	P	P	P	P
80	1506431032	Mahesh Mishra	VIII	P	P	P	P	P	P	P	A	P	P	P	P	P	P	P	P
81	1406431033	Mohit Bhargava	VIII	P	P	P	A	P	P	P	P	P	P	P	P	P	P	P	P


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82	1506431033	Mukul Gupta	VIII	P	P	P	P	P	A	P	P	P	P	P	P	P	P
83	1506431035	Raj Vardhan	VIII	P	P	P	A	P	P	P	P	P	P	P	P	P	P
84	1506431036	Rishabh Katiyar	VIII	P	P	P	P	P	P	P	P	P	P	P	P	P	P
85	1506431037	Rishabh Wadhwa	VIII	P	P	P	P	P	A	A	P	P	P	P	P	P	P
86	1506431038	Ritesh Kumar Singh	VIII	P	P	P	P	P	P	P	P	P	P	P	P	P	P
87	1506431039	Sakshi Bansal	VIII	P	P	P	P	P	P	P	P	P	P	P	P	P	P
88	1506431040	Sandhya Kc	VIII	P	A	P	P	P	P	P	P	P	P	P	P	P	P
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91	1506431042	Shashank Shekhar Singh	VIII	P	P	P	P	P	P	A	P	P	P	P	P	P	P
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*Department of ELECTRONICS & COMMUNICATION ENGINEERING
Academic Session 2018-19*

This is to certify that Ms Ayushi Shakya (Roll No: 1706431004), IV semester, Department of Electronics & Communication Engineering has successfully completed 35 hours of Value Added Course VEC1801 titled "Introduction to Internet of Things (IOT)".

[Signature]
Head of Department

[Signature]
Course Coordinator

[Signature]
Director

[Signature]
Director
Hindustan College of
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*Department of ELECTRONICS & COMMUNICATION ENGINEERING
Academic Session 2018-19*

This is to certify that Mr Mehul Varshney (Roll No: 1606431018), VI semester, Department of Electronics & Communication Engineering has successfully completed 35 hours of Value Added Course VEC1801 titled "Introduction to Internet of Things (IOT)".

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Course Coordinator

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Director

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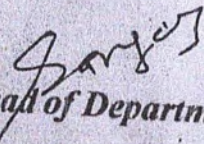
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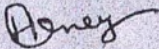


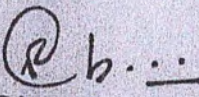
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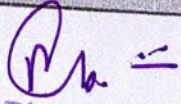
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Academic Session 2018-19*

This is to certify that Ms Sakshi Bansal (Roll No: 1506431039), VIII semester, Department of Electronics & Communication Engineering has successfully completed 35 hours of Value Added Course VEC1801 titled "Introduction to Internet of Things (IOT)".


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