

V.S.B. ENGINEERING COLLEGE, KARUR
(An Autonomous Institution)
DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
ACADEMIC YEAR 2024-25 (ODD semester)
Website Link

Class: IV Year / VII Semester

Subject Code/ Subject Name: EE3007 / Smart Grid

Name of Faculty member: Mr.R.Sivakumar

Sl NO.	TOPIC	DETAILS OF WEBLINK
1.	Evolution of Energy Systems	https://www.youtube.com/watch?v=zwsAf0do-yo
2.	Difference between Conventional & Smart Grid, Drivers, structures	https://www.youtube.com/watch?v=3shXzAqayRc
3.	challenges and benefits of Smart Grid,	https://www.youtube.com/watch?v=DgiqOzdTACQ
4.	Advanced Metering infrastructure (AMI) - drivers and benefits	https://www.youtube.com/watch?v=b1XErmFTCoQ
5.	AMI needs in the smart grid	https://www.youtube.com/watch?v=i-ySau00EJw
6.	Phasor Measurement Unit (PMU)	https://www.youtube.com/watch?v=kd_rFG7VIA8
7.	Smart energy resources	https://www.youtube.com/watch?v=xukHviDpn_0

SI NO.	TOPIC	DETAILS OF WEBLINK
8.	Smart substations	https://www.youtube.com/watch?v=bM9bcKT0sj8
9.	Substation Automation	https://www.youtube.com/watch?v=KC2I5D3EzqA
10.	DMS	https://www.youtube.com/watch?v=KSuaNTXB38c
11.	Volt/VAr control	https://www.youtube.com/watch?v=eSW_kdVP-8I
12.	Electric Vehicles.	https://www.youtube.com/watch?v=GHGXy_sjbgQ
13.	Local Area Network (LAN)	https://www.youtube.com/watch?v=4_zSIXb7tLQ
14.	Computing technologies for Smart Grid applications	https://www.youtube.com/watch?v=fROS-nuh3xA
15.	Cyber Security for Smart Grid.	https://www.youtube.com/watch?v=bvGrh7IITeE

V.S.B. ENGINEERING COLLEGE, KARUR**(An Autonomous Institution)****DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING****YEAR/SEM: IV/VII****UNIT-WISE CONCEPT EXPLAINING VIDEO LINKS****OCH353 ENERGY TECHNOLOGY**

Name of the Unit	Name of the Topic	Video Link
UNIT I Introduction	General classification of energy	https://www.youtube.com/watch?v=rsewRUlUBWk
	Non renewable energy sources	https://www.youtube.com/watch?v=x0nDo8e8UJs
	Indian energy resources	https://www.youtube.com/watch?v=hMtZl4Op5VQ
	World energy resources	https://www.youtube.com/watch?v=lzQXDky33xg
	Renewable energy sources	https://www.youtube.com/watch?v=mh51mAUexK4&list=PLwdnzlV3ogoXUifhvYB65lLJCZ74o_fAk
UNIT II Conventional Energy	Thermal power plant	https://www.youtube.com/watch?v=D0i1E_IE_TE
	Hydel power plant	https://www.youtube.com/watch?v=Rf5S714-7SI
	Nuclear power plant	https://www.youtube.com/watch?v=N4fpPysaEhg
	Conventional energy resources	https://www.youtube.com/watch?v=4ijFBz63vXo&list=PLwdnzlV3ogoU_xd_1SOtPpMPis4Li8yHe
	Fluidized bed combustion	https://www.youtube.com/watch?v=E2RGOTCd36E
UNIT III Non- Conventional Energy	Flat plate collectors	https://www.youtube.com/watch?v=jcaLQOD9R_s&list=PLZwoshNJgk_Nex7KDioMCd1HDom_7FIVy
	Focusing collectors	https://www.youtube.com/watch?v=EhKh-KPF7UQ
	Solar pond	https://www.youtube.com/watch?v=a008raT0Jf8
	Wind Energy	https://www.youtube.com/watch?v=GEsTwRNkQBg
	Geothermal energy	https://www.youtube.com/watch?v=GRwJqD4StEU
UNIT IV Biomass Energy	Biomass energy resources	https://www.youtube.com/watch?v=Bw5IrRP7COs
	Biogas production	https://www.youtube.com/watch?v=TXj078FI3n4
	Pyrolysis	https://www.youtube.com/watch?v=3K1zWAYDvMA
	Solid oxide fuel cell	https://www.youtube.com/watch?v=OTdnvk-h3cE
	Magneto hydrodynamic power generation	https://www.youtube.com/watch?v=GRwJqD4StEU
UNIT V Energy Conservation	Energy conservation in chemical process plants	https://www.youtube.com/watch?v=LsDUYSxwgcE&t=30s
	Energy audit	https://www.youtube.com/watch?v=SOdlpbJ-G1E&list=PLQmc-I2-FO2GCp2szVRnoIk3e2E5J7oLl&index=24
	Energy saving in heat exchangers	https://www.youtube.com/watch?v=hvYy6dRSAfE
	Dryers, ovens	https://www.youtube.com/watch?v=U7_jAbSjpbk
	Energy conservation	https://www.youtube.com/watch?v=ubDMIAJydPc



V.S.B. Engineering College

(Recognition of College under Section 2 (f) & 12 (B) of the UGC Act, 1956)

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Karudayampalayam Post, KARUR - 639 111. Tamilnadu.



ISO 9001:2015



Department of EEE

Academic Year: 2023-24 (ODD SEMESTER)

IV YEAR / VII SEM - EEE

EE8701- HIGH VOLTAGE ENGINEERING

UNIT WISE CONCEPT EXPLAINING - VIDEOS LINK

S.No	Unit No	Topics Name	You tube video Link/NPTEL LINK
1	I	Protection Against Over voltages	https://www.youtube.com/watch?v=M9I19AM0pHQ https://www.youtube.com/watch?v=i1Vipv5WUIM
2		Corona and Its effects	https://www.youtube.com/watch?v=m-jeQgXAqJA https://www.youtube.com/watch?v=PjsfQ_10IeA
3		Bewley Lattice Diagram	https://www.youtube.com/watch?v=rpBJf9-FxdE https://www.youtube.com/watch?v=BXfPchdJIQs
4	II	Gaseous breakdown mechanism	https://www.youtube.com/watch?v=Qt3b8ERIBak
5		Breakdown mechanism in solid dielectrics	https://www.youtube.com/watch?v=5n8fALHobOk https://www.youtube.com/watch?v=etjZmdmrjSU
6		Breakdown mechanism in composite dielectrics	https://www.youtube.com/watch?v=WKYS3t8hrMc
7	III	Van de graff Generator	https://www.youtube.com/watch?v=thWKjzc5Vsw
8		Tesla coil	https://www.youtube.com/watch?v=TD3rFNqM9mg
9		Resonant Transformer	https://www.youtube.com/watch?v=RCvGA349QSA
10	IV	Electro static Voltmeters	https://www.youtube.com/watch?v=f9Pi302efq4 https://www.youtube.com/watch?v=HX7YqqMWypM
11		Sphere Gaps	https://www.youtube.com/watch?v=Pds7fLqInd8 https://www.youtube.com/watch?v=0JKfIgRhLQ4
12		High Current Shunts	https://www.youtube.com/watch?v=aZR5ZwUYyWU
13	V	Testing of Circuit Breakers	https://www.youtube.com/watch?v=qY9WZ1upuPU
14		Testing of Isolators	https://www.youtube.com/watch?v=NdGbfuehd1E
15		Testing of Transformers	https://www.youtube.com/watch?v=jtGd0hkMSDg https://www.youtube.com/watch?v=vOEXSsPBipg

V.S.B. ENGINEERING COLLEGE, KARUR**(An Autonomous Institution)****DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING****UNIT-WISE CONCEPT EXPLAINING VIDEO LINKS**
POWER ELECTRONICS FOR RENEWABLE ENERGY SYSTEMS

Name of the Unit	Name of the Topic	Video Link
UNIT I	General classification of energy	https://www.youtube.com/watch?v=rsewRUluBWk
	Renewable energy sources	https://www.youtube.com/watch?v=mh51mAUexK4&list=PLwdnzlV3ogoXUifhvYB65lJCZ74o_fAk
	Non renewable energy sources	https://www.youtube.com/watch?v=x0nDo8e8UJs
	Future potential of renewable energy in power production	https://www.youtube.com/watch?v=BZBewPai0_c
	Indian energy resources	https://www.youtube.com/watch?v=hMtZl4Op5VQ
UNIT II	Flat plate collectors	https://www.youtube.com/watch?v=jcaLQOD9R_s&list=PLZwoshNJgk_Nex7KDioMCd1HDom_7FIVy
	Focusing collectors	https://www.youtube.com/watch?v=EhKh-KPF7UQ
	Domestic lighting	https://www.youtube.com/watch?v=X0OZ6tpZ3Mc
	Water pumping	https://www.youtube.com/watch?v=iznRUusrdOI
	Types of solar cells	https://www.youtube.com/watch?v=0Tkp9l71xQA
UNIT III	Wind Energy	https://www.youtube.com/watch?v=Q1uedC-lgko
	Factors influencing wind	https://www.youtube.com/watch?v=YKRHBuYs4k0
	Wind electric generating and control systems	https://www.youtube.com/watch?v=GExTwRNkQBg
	Wind energy conversion systems	https://www.youtube.com/watch?v=mJdik-64xUc
UNIT IV	Classification of WECS devices	https://www.youtube.com/watch?v=71zEbhVU0Mg
	Biomass energy resources	https://www.youtube.com/watch?v=Bw5IrRP7COs
	Biogas production	https://www.youtube.com/watch?v=TXj078FI3n4
	Pyrolysis	https://www.youtube.com/watch?v=3K1zWAYDvMA
	Classification of biogas plants	https://www.youtube.com/watch?v=P3ScRRI14Iw
UNIT V	Application of biomass and biogas plants	https://www.youtube.com/watch?v=cTs2Lly8-zQ
	Geo thermal energy Resources	https://www.youtube.com/watch?v=ttpBJKHiU34
	Energy conversion from Hydrogen and Fuel cells	https://www.youtube.com/watch?v=GfJN3EMe0Jk
	Wave energy	https://www.youtube.com/watch?v=YjxpE1-W9QQ
	OTEC plants	https://www.youtube.com/watch?v=dV8rJftlSo
	Mini-hydel power plants	https://www.youtube.com/watch?v=H9Pxp_L39jQ

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DEPARTMENT OF ELECTRICAL AND ELECTRONICS
ENGINEERING

GE3791-HUMAN VALUES AND ETHICS

UNIT-1

DEMOCRATIC VALUES

S.NO	TOPICS	LINK
1	Understanding Democratic values	https://www.youtube.com/watch?v=u6jgWxkbR7A
2	Freedom of Expression	https://www.youtube.com/watch?v=9EZudlu2OTM
3	Citizen Participation in Governance	https://www.youtube.com/watch?v=5UtRjvKtjuw
4	World Democracies	https://www.youtube.com/watch?v=V2vhyjIn8Bc
5	French Revolution	https://www.youtube.com/watch?v=5fJl_ZX91l0
6	American Independence	https://www.youtube.com/watch?v=0JYvYiulaXw
7	Indian Freedom Movement	https://www.youtube.com/watch?v=oC_7uiwT6S0

UNIT-2

SECULARVALUES

S.NO	TOPICS	LINK
1	Understanding Secular values	https://www.youtube.com/watch?v=X2tRgX0fG6c
2	Interpretation of secularism in Indian context	https://www.youtube.com/watch?v=9UIANyp0Cxl
3	Disassociation of state from religion	https://www.youtube.com/watch?v=cTmUdcJjvSQ
4	Acceptance of all faiths	https://www.youtube.com/watch?v=Fy4Mu1drtkl
5	Encouraging non-discriminatory practices	https://www.youtube.com/watch?v=EPmcAyfVYX4&t=38s
6	Excerpt from Secularism in India	https://www.youtube.com/watch?v=LtincxwQ3sg
7	Concept and Practice in Secular values	https://www.youtube.com/watch?v=soraJwZtl3o

UNIT-3

SCIENTIFICVALUES

S.NO	TOPICS	LINK
1	Scientific thinking and method	https://www.youtube.com/watch?v=yi0hwFDQTSQ
2	Inductive and Deductive thinking	https://www.youtube.com/watch?v=JZQjDfckj9k
3	Proposing and testing Hypothesis	https://www.youtube.com/watch?v=VK-rnA3-41c
4	Validating facts using evidence based approach	https://www.youtube.com/watch?v=LF4D5LjDXOM
5	Skepticism and Empiricism	https://www.youtube.com/watch?v=hl3tzDK1xXY
6	Rationalism	https://www.youtube.com/watch?v=lj26p3_JVjo
7	Scientific Temper	https://www.youtube.com/watch?v=N3HZqfzquS4

UNIT-4

SOCIALETHICS

S.NO	TOPICS	LINK
1	Application of ethical reasoning to social problems	https://www.youtube.com/watch?v=A0Tj1cVEuFw
2	Gender bias and issues	https://www.youtube.com/watch?v=M3GITA-qMD0
3	Gender violence	https://www.youtube.com/watch?v=Olt7TzgntA8
4	Social discrimination	https://www.youtube.com/watch?v=4XSm5jSlag
5	Constitutional protection	https://www.youtube.com/watch?v=TvGzYkU27kk
6	Constitutional policies	https://www.youtube.com/watch?v=Z-WCSOQEgUY
7	Inclusive practices	https://www.youtube.com/watch?v=00sRVmZa_zg

UNIT-5

SCIENTIFICETHICS

S.NO	TOPICS	LINK
1	Transparency in scientific pursuits	https://www.youtube.com/watch?v=t-FtonRzFDU
2	Fairness in scientific pursuits	https://www.youtube.com/watch?v=SnENXgLRE34
3	Scientific inventions for the betterment of society	https://www.youtube.com/watch?v=F6vRawVjdNg
4	Unfair application of scientific inventions	https://www.youtube.com/watch?v=1ng2vBvb7Dg
5	Role of Scientist in the modern society	https://www.youtube.com/watch?v=1ng2vBvb7Dg
6	Responsibility of Scientist in the modern society	https://www.youtube.com/watch?v=Qe65vgpdDJk
7	Scientific ethics	https://www.youtube.com/watch?v=mtLPd2u4DiA

VSU ENGINEERING COLLEGE, KARUR

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PRINCIPLE OF MANAGEMENT

ACADEMIC YEAR: 2024-2025 (ODD SEM)

UNIT-WISE CONCEPT EXPLAINING ANIMATION/SHORT VIDEOS (TOPIC WITH LINK)

UNIT I- INTRODUCTION TO MANAGEMENT AND ORGANIZATIONS

DEFINITION OF MANAGEMENT:

https://youtu.be/_OBqwhYLEJo?si=3J9434x6wJMAZ7da

SCIENCE OR ART: https://youtu.be/_6lM8bz1Hoo?si=lisqkTaTxqRfpZEh

MANAGER VS ENTREPRENEUR:

<https://youtu.be/ooOQ1gERlwQ?si=BZIXSIVZBEBHvYoG>

TYPES OF MANAGER: <https://youtu.be/17ikzi6EFg8?si=PiSMz8l9Ld34axsi>

MANAGERIAL ROLES AND SKILLS: <https://youtu.be/YJwkkLO13l8?si=ixk1BNZa-lcdoOkU>

EVOLUTION OF MANAGEMENT: <https://youtu.be/fWSA0RjOpTI?si=l0BJUFsncplegTjK>

SCIENTIFIC, HUMAN RELATION, SYSTEM AND CONTINGENCY APPROACHES:

<https://youtu.be/lCbDRM1lvZY?si=DH0DmFeMMcMPDhHP>

TYPES OF BUSINESS ORGANIZATION:

<https://youtu.be/nsV461Ylr6c?si=0l2ZjY93rkoCKTK1>

SOLE PROPRIETORSHIP, PARTNERSHIP: <https://youtu.be/BkEj-cDQtzw?si=FUBX6bgm8XeakD-p>

PUBLIC AND PRIVATE SECTOR ENTERPRISES:

https://youtu.be/_7nMVT7s_QU?si=eh2UK62DxOeMirT8

ORGANISATION CULTURE AND ENVIRONMENT: <https://youtu.be/4cBN8xH-5Qw?si=GYhYkyIIDf0FYMFD>

CURRENT TRENDS AND ISSUES IN MANAGEMENT:

https://youtu.be/_0zeIMcY5d8?si=AvelltdowRfciCrd

UNIT II-PLANNING

NATURE AND PURPOSE OF PLANNING:

https://youtu.be/vlx3oUvjSIQ?si=4TQ_fw3_vhKPyfkg

PLANNING PROCESS: <https://youtu.be/CevX6MGdOag?si=ZzwZUudDbPhN-qCU>

TYPES OF PLANNING: <https://youtu.be/n7dZ-ZWifko?si=J2MvQQogrH5aBf7g>

OBJECTIVES: <https://youtu.be/ZY8qVGGqeko?si=FZh6MwUQwl6H0AzM>

SETTING OBJECTIVES: <https://youtu.be/pdPtuhZiSq4?si=Yv6GQb7ynBiT6FRk>

POLICIES: <https://youtu.be/GgBax4WjdPA?si=piRCSjzx8pHYpC6o>

PLANNING PERMISES: <https://youtu.be/M2NfGlqWvJg?si=JsjjrBla68NqYMjH>

STRATERGIC MANAGEMENT: https://youtu.be/5xD2JLleGqk?si=NuSU9-S3bcG63_eR

PLANNING TOOLS AND TECHNIQUES:

<https://youtu.be/rzbU3kSTFhI?si=aymlF7AxjAFv-5uy>

DECISION MAKING STEPS AND PROCESS:

<https://youtu.be/Qg1NvbZVIXE?si=nHFD6ZTjQakUaBcq>

UNIT III- ORGANISING

NATURE AND PURPOSE: <https://youtu.be/v9eiTULiytY?si=Qi1NQHMtrBk-btY5>

FORMAL AND INFORMAL ORGANIZATION:

<https://youtu.be/0qhfWstS9xk?si=ePefNSt4UCxes5BV>

ORGANISATION CHART: <https://youtu.be/gl7HG0w3cLk?si=lwtTJru-5iFHaPEp>

ORGANISATION STRUCTURE: <https://youtu.be/RcGCFX95ejE?si=R3KinvcFGaY3bqpG>

TYPES: <https://youtu.be/rrBvDcM1quc?si=jFmAEdWNhP0rjOR0>

LINE AND STAFF AUTHORITY: <https://youtu.be/qEkFMcRVLi8?si=NGWcV9iPPrXN0gft>

DEPARTMENTALIZATION: https://youtu.be/ryJ8s9PXyig?si=IO_q3xOMv0o8FMQj

DELEGATION OF AUTHORITY:

<https://youtu.be/A8pmuiDxGbY?si=dU9jsJADuEEQhV89>

CENTRALIZATION AND DECENTRALIZATION:

<https://youtu.be/XQUt6uHNRgk?si=Cv2iZ7tYZV1LQnvD>

JOB DESIGN: https://youtu.be/uUG-Z5sg2UM?si=HE_HHxlc1aPiJOuQ

HUMAN RESOURCE MANAGEMENT:

<https://youtu.be/fj0IMkwBQnc?si=DI1pxoDKIM20XizU>

HR PLANNING, RECRUITMENT, SELECTION: <https://youtu.be/DQ-Ld3IrrWU?si=TGq5-UyXtW6lOQYK>

UNIT IV – DIRECTING

FOUNDATION OF INDIVIDUAL AND GROUP BEHAVIOUR:

https://youtu.be/yTPIddNe_Rs?si=xGBzIRlccyQmYqcO

MOTIVATION: https://youtu.be/eXDNkwleOqA?si=GdDj6M_m42Pv4_37

MOTIVATION THEORIES: <https://youtu.be/woa2Qa8i80U?si=Afj7TzO7e4CwH87y>

MOTIVATIONAL TECHNIQUE: <https://youtu.be/8ZhoeSaPF-k?si=zPNgY9UBeuW4CfYX>

JOB SATISFACTION: <https://youtu.be/HvR64IJ0ioE?si=jI9B8cS95XNem5oE>

JOB ENRICHMENT: https://youtu.be/ZMVPg_JedA4?si=hhH8WgC8dZ884UHS

LEADERSHIP: https://youtu.be/dlYmzf21d1g?si=ZfM_bb7vLCyePlry

TYPES AND THEORIES OF LEADERSHIPS:

<https://youtu.be/xfPlysWHnRo?si=vdfJMGzYw6yZeid7>

COMMUNICATION: <https://youtu.be/RkebtEk2zU0?si=ZSf78O3T0rCs3wes>

PROCESS OF COMMUNICATION: <https://youtu.be/cfkO9ucdjds?si=SfTSX1-MSmTWKihg>

BARRIER IN COMMUNICATION:

<https://youtu.be/jTQpsoHIAhU?si=qVRsW3DfG9TbWMZu>

COMMUNICATION AND IT: <https://youtu.be/RkebtEk2zU0?si=-W3gEFh94hbOY950>

UNIT -V CONTROLLING

SYSTEM AND PROCESS OF CONTROLLING: <https://youtu.be/jOLHwYi-wal?si=mi5wefEdrk5beKw4>

BUDGETARY AND NON-BUDGETARY CONTROL TECHNIQUE:

<https://youtu.be/SxYhnqevW88?si=sRkcqUru7zVu4JlF>

USE OF COMPUTERS AND IT IN MANAGEMENT CONTROL:

<https://youtu.be/5Xf3ImCjr6U?si=fd21YMCeclUIRrWm>

PRODUCTIVITY PROBLEMS AND MANAGEMENT:

<https://youtu.be/kYclpkpkJCU?si=pJDy8efoaOfRUAMx>

CONTROL AND PERFORMANCE:

<https://youtu.be/CqQefEorxNU?si=C1hHUTPuRj88mKhS>

DIRECT AND PREVENTIVE CONTROL:

https://youtu.be/WHjm3Yyp28o?si=U3YOGpF_rsYisSCj

REPORTING: <https://youtu.be/PFJmkobyRa4?si=cXUJjGGODBJhLIIR>

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DEPARTMENT OF EEE

ACADEMIC YEAR: 2024 - 2025 (ODD SEMESTER)

OCS352 IOT CONCEPTS AND APPLICATIONS - ANIMATION/SHORT VIDEOS

UNIT I

INTRODUCTION TO INTERNET OF THINGS

1. Evolution of Internet of Things - <https://www.youtube.com/watch?v=OYD1ToTGycI>
2. Enabling Technologies - <https://www.youtube.com/watch?v=-YceXP8uoY>
3. IoT Architectures: oneM2M - <https://www.youtube.com/watch?v=DqM28rIhi9o>
4. **IoT world forum (iotwf)** - <https://www.youtube.com/watch?v=9a9VQnmdVzY>
5. Enabling Technologies - <https://www.youtube.com/watch?v=rOfzo65XCHw>

UNIT II

COMPONENTS IN INTERNET OF THINGS

1. Functional Blocks of an IoT Ecosystem - <https://www.youtube.com/watch?v=Qh2gI8QDfas>
2. Sensors, Actuators - <https://www.youtube.com/watch?v=ZVmD4O7rj9U>
3. Control Units - <https://www.youtube.com/watch?v=oO0dDHh7efQ>
4. Communication modules - <https://www.youtube.com/watch?v=rOfzo65XCHw>
5. Bluetooth, Zigbee - <https://www.youtube.com/watch?v=mqpKAIIPYxY>

UNIT III

PROTOCOLS AND TECHNOLOGIES BEHIND IOT

1. IPV6 - <https://youtu.be/i-OYNqJqatI>
2. 6LoWPAN - <https://www.youtube.com/watch?v=VLB5BJbzJns>
3. RFID - https://youtu.be/y2m4z7Nc_b0?t=2
4. Wireless Sensor Networks - https://www.youtube.com/watch?v=gzKNII_UHHo
5. Embedded system - <https://www.youtube.com/watch?v=yVxwvrs7354>

UNIT IV

OPEN PLATFORMS AND PROGRAMMING

1. IOT deployment for raspberry pi - <https://www.youtube.com/watch?v=sr7cHpheA10>
2. IOT deployment for Arduino - <https://www.youtube.com/watch?v=4b9usgT-2kQ>
3. Accessing GPIO Pins. - <https://www.youtube.com/watch?v=6PuK9fh3aL>
4. Interfacing - <https://www.youtube.com/watch?v=q7IFrb75>.
5. Programming - <https://www.youtube.com/watch?v=MK-r7do-3o8>

UNIT V

APPLICATIONS

1. Smart city - <https://youtu.be/6dvgZvotJiQ?t=2>
2. Smart mobility and Transport - <https://youtu.be/b-6UP1UIvfE>
3. Industrial IOT - <https://youtu.be/aUPoA3MSajU>
4. Smart health - https://youtu.be/upq_ATgHubM?t=1
5. Smart Agriculture - <https://youtu.be/jl8IKpjiCSM?t=1>