



# Global Group of Institutes

(Approved by AICTE, PCI and Affiliated to IKGPTU, Jalandhar)

**SUPPORTING DOCUMENT FOR 4.2.2 & 4.2.3**

**Remote Access to E-Resources**



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## E-Resources

Name of the e-content	Links
To verify the Truth-tables of all logic gates.	<a href="https://youtu.be/0wPY4R6ER6w">https://youtu.be/0wPY4R6ER6w</a>
To realize and verify the Half & full adder circuits using logic gates.	<a href="https://youtu.be/-7HtLvcB5VI">https://youtu.be/-7HtLvcB5VI</a>
To realize Half & full subtractor circuits using logic gates.	<a href="https://youtu.be/djFN-E93oAs">https://youtu.be/djFN-E93oAs</a>
To realize Multiplexer and De-Multiplexer circuits	<a href="https://youtu.be/NV2Gvz3Q2a4">https://youtu.be/NV2Gvz3Q2a4</a>
To realize 4-bit binary-gray & gray-binary converters.	<a href="https://youtu.be/TOg5SL6Lkzc">https://youtu.be/TOg5SL6Lkzc</a>
To design and verify the Truth tables of all flip-flops	<a href="https://youtu.be/WptfHRjSb_A">https://youtu.be/WptfHRjSb_A</a>
To draw displacement, velocity & acceleration diagram of slider – crank mechanism.	<a href="https://youtu.be/zGTemXjYNbE">https://youtu.be/zGTemXjYNbE</a>
Cam profile analysis (graphical method).	<a href="https://youtu.be/VfHEBhr4aTI">https://youtu.be/VfHEBhr4aTI</a>
To study the flow through a variable area duct and verify Bernoulli's energy equation.	<a href="https://youtu.be/HtlbaCueyYA">https://youtu.be/HtlbaCueyYA</a>
To determine the friction coefficients for pipes of different diameters.	<a href="https://youtu.be/sayvxpBXs0Y">https://youtu.be/sayvxpBXs0Y</a>
To determine the head loss in a pipe line due to sudden expansion/ sudden contraction/ bend.	<a href="https://youtu.be/o2Sal3eSq08">https://youtu.be/o2Sal3eSq08</a>
To determine the discharge coefficient for a V- notch.	<a href="https://youtu.be/CWSYJ_zOAxQ">https://youtu.be/CWSYJ_zOAxQ</a>
To determine the coefficient of discharge for an obstruction flow meter (venturi meter/ orifice meter)	<a href="https://youtu.be/BULKFeNKMvk">https://youtu.be/BULKFeNKMvk</a>
To study the transition from laminar to turbulent flow and to ascertain the lower critical Reynolds number	<a href="https://youtu.be/GelfCKBo7bg">https://youtu.be/GelfCKBo7bg</a>
To Study Half-wave rectifier.	<a href="https://youtu.be/ggdTrHeANHw">https://youtu.be/ggdTrHeANHw</a>
Zener diode as voltage regulator.	<a href="https://youtu.be/5po7aUeSJwc">https://youtu.be/5po7aUeSJwc</a>
Input & output V-I characteristic curve of npn/pnp BJT in CB configuration	<a href="https://youtu.be/KJcTVmJpMwY">https://youtu.be/KJcTVmJpMwY</a>
Input & output V-I characteristic curve of npn/pnp BJT in CC configuration	<a href="https://youtu.be/uNs42dyzw28">https://youtu.be/uNs42dyzw28</a>
To verify the Truth-tables of all logic gates.	<a href="https://youtu.be/0wPY4R6ER6w">https://youtu.be/0wPY4R6ER6w</a>
To realize and verify the Half & full adder circuits using logic gates	<a href="https://youtu.be/-7HtLvcB5VI">https://youtu.be/-7HtLvcB5VI</a>
To realize Half & full subtractor circuits using logic gates.	<a href="https://youtu.be/djFN-E93oAs">https://youtu.be/djFN-E93oAs</a>
To design and verify the Truth tables of all flip-flops	<a href="https://youtu.be/WptfHRjSb_A">https://youtu.be/WptfHRjSb_A</a>
To study the Characteristics/output waveform of Amplitude Modulation and demodulation techniques.	<a href="https://youtu.be/PpWRanDHYTo">https://youtu.be/PpWRanDHYTo</a>
To study the effect of Sampling and Investigate the Output response of Pulse Amplitude Modulation.	<a href="https://youtu.be/uzfl1nPgxtw">https://youtu.be/uzfl1nPgxtw</a>
To Study the output response of PSK & FSK.	<a href="https://youtu.be/GCsyq-IP4wo">https://youtu.be/GCsyq-IP4wo</a>
To Investigate the Output response of Pulse Code Modulation	<a href="https://youtu.be/61DRM_C3zRk">https://youtu.be/61DRM_C3zRk</a>
Application of Op amp as Inverting and Non Inverting amplifier.	<a href="https://youtu.be/cwqyBctH_Gg">https://youtu.be/cwqyBctH_Gg</a>
Application of Op-Amp as summing, scaling & averaging amplifier.	<a href="https://youtu.be/kwJliTvpTYg">https://youtu.be/kwJliTvpTYg</a>
Design differentiator and Integrator using Op-Amp.	<a href="https://youtu.be/kOehDKsbHII">https://youtu.be/kOehDKsbHII</a>
Application of Op Amp as Sawtooth wave generator	<a href="https://youtu.be/fyoqW2CXTHk">https://youtu.be/fyoqW2CXTHk</a>
Measurement of Distance by Chaining and Ranging.	<a href="https://youtu.be/7YQm4VjTa6g">https://youtu.be/7YQm4VjTa6g</a>
Measurement of Bearing Angle with compass adjustment of traverse with graphical method.	<a href="https://youtu.be/ie4pZXi5XZU">https://youtu.be/ie4pZXi5XZU</a>
Plane Table Survey plotting few point by Radiation Method.	<a href="https://youtu.be/IiyucW9bdcw">https://youtu.be/IiyucW9bdcw</a>
Determination of Elevation of various points with Rise & Fall Method.	<a href="https://youtu.be/P4XmIR93pqk">https://youtu.be/P4XmIR93pqk</a>
Measurement of Horizontal Angle with Theodolite.	<a href="https://youtu.be/I62eyjN8FIE">https://youtu.be/I62eyjN8FIE</a>
Measurement of Vertical Angle with Theodolite.	<a href="https://youtu.be/MhrpJaxmOPI">https://youtu.be/MhrpJaxmOPI</a>
To study the flow through a variable area duct and verify Bernoulli's	<a href="https://youtu.be/HtlbaCueyYA">https://youtu.be/HtlbaCueyYA</a>



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energy equation.	
To determine the friction coefficients for pipes of different diameters.	<a href="https://youtu.be/sayvxPBXs0Y">https://youtu.be/sayvxPBXs0Y</a>
To determine the head loss in a pipe line due to sudden expansion/ sudden contraction/ bend.	<a href="https://youtu.be/o2Sal3eSq08">https://youtu.be/o2Sal3eSq08</a>
To determine the discharge coefficient for a V- notch.	<a href="https://youtu.be/CWSYJ_zOAxQ">https://youtu.be/CWSYJ_zOAxQ</a>
To determine the coefficient of discharge for an obstruction flow meter (venturi meter/ orifice meter)	<a href="https://youtu.be/BULKFeNKMvk">https://youtu.be/BULKFeNKMvk</a>
To study the transition from laminar to turbulent flow and to ascertain the lower critical Reynolds number	<a href="https://youtu.be/GelfCKBo7bg">https://youtu.be/GelfCKBo7bg</a>
To determine liquid limit of soil using Casagrande's apparatus.	<a href="https://youtu.be/2rPQWjRn2JM">https://youtu.be/2rPQWjRn2JM</a>
To determine specific gravity of soil by Pycnometer method.	<a href="https://youtu.be/-SNU-DFpu8">https://youtu.be/-SNU-DFpu8</a>
Grain size analysis of soil and determination of uniformity coefficient & coefficient of curvature	<a href="https://youtu.be/kILG12lm4e8">https://youtu.be/kILG12lm4e8</a>
To perform Compaction test of soil using Standard Proctor Test.	<a href="https://youtu.be/CcWlwMNhXfQ">https://youtu.be/CcWlwMNhXfQ</a>
To determine the field density by Sand Replacement Method.	<a href="https://youtu.be/H-Hd2obOvWU">https://youtu.be/H-Hd2obOvWU</a>
To determine the density of soil using Core-Cutter Method.	<a href="https://youtu.be/BHC5CfTvQdU">https://youtu.be/BHC5CfTvQdU</a>
To determine the Shear Strength of soil using Direct Shear Test.	<a href="https://youtu.be/bD1ZRJWAWxU">https://youtu.be/bD1ZRJWAWxU</a>
To prepare acetanilide from aniline by acylation reaction.	<a href="https://youtu.be/kYWQ-U-n7bk">https://youtu.be/kYWQ-U-n7bk</a>
To prepare para-bromo-acetanilide from acetanilide by bromination reaction	<a href="https://youtu.be/ev53872xPiU">https://youtu.be/ev53872xPiU</a>
To prepare m-dinitro benzene from nitrobenzene by nitration reaction	<a href="https://youtu.be/I6jkMDCO9gM">https://youtu.be/I6jkMDCO9gM</a>
To prepare Benzyl from benzoin.	<a href="https://youtu.be/PgcuZ3hOuwM">https://youtu.be/PgcuZ3hOuwM</a>
To prepare cinnamic acid from Benzaldehyde.	<a href="https://youtu.be/sR6ZCDfu100">https://youtu.be/sR6ZCDfu100</a>
To carry out the disintegration test for given uncoated tablets	<a href="https://youtu.be/qzIWGV5y9SI">https://youtu.be/qzIWGV5y9SI</a>
To carry out the friability test for given uncoated tablets	<a href="https://youtu.be/WDa_5U9WQAs">https://youtu.be/WDa_5U9WQAs</a>
Introduction to in-vitro pharmacology and physiological salt solutions.	<a href="https://youtu.be/oAf4Af10uY8">https://youtu.be/oAf4Af10uY8</a>
To study the effect of drug on frog heart	<a href="https://youtu.be/qgl_BI-B7aM">https://youtu.be/qgl_BI-B7aM</a>
To demonstrate soxhlet apparatus.	<a href="https://youtu.be/3ZnKqy5obNc">https://youtu.be/3ZnKqy5obNc</a>
To prepare acetanilide from aniline by acylation reaction.	<a href="https://youtu.be/kYWQ-U-n7bk">https://youtu.be/kYWQ-U-n7bk</a>
To prepare para-bromo-acetanilide from acetanilide by bromination reaction	<a href="https://youtu.be/ev53872xPiU">https://youtu.be/ev53872xPiU</a>
To prepare m-dinitro benzene from nitrobenzene by nitration reaction	<a href="https://youtu.be/I6jkMDCO9gM">https://youtu.be/I6jkMDCO9gM</a>
To prepare Benzyl from benzoin.	<a href="https://youtu.be/PgcuZ3hOuwM">https://youtu.be/PgcuZ3hOuwM</a>
To prepare cinnamic acid from Benzaldehyde.	<a href="https://youtu.be/sR6ZCDfu100">https://youtu.be/sR6ZCDfu100</a>
To carry out the disintegration test for given uncoated tablets	<a href="https://youtu.be/qzIWGV5y9SI">https://youtu.be/qzIWGV5y9SI</a>
To carry out the friability test for given uncoated tablets	<a href="https://youtu.be/WDa_5U9WQAs">https://youtu.be/WDa_5U9WQAs</a>
To make students learn about the roasted marinated button mushroom with diced vegetables	<a href="https://youtu.be/54vICekA1_c">https://youtu.be/54vICekA1_c</a>
To make students learn to cook paneer in rich gravy made with tomatoes, ginger garlic, cashews, cream and butter	<a href="https://youtu.be/hqjlieDlyNE">https://youtu.be/hqjlieDlyNE</a>
To make students learn about the aromatic, flavorful and delicious fried rice recipe with vegetables.	<a href="https://youtu.be/hqjlieDlyNE">https://youtu.be/hqjlieDlyNE</a>
To make students learn about the rich and creamy dessert made with ghee, sugar, milk, nuts and bread.	<a href="https://youtu.be/rct1G2TGvF0">https://youtu.be/rct1G2TGvF0</a>
To make students learn about the most popular Punjabi dish made with whole black lentils finished with rich tomato gravy, butter and cream.	<a href="https://youtu.be/4v_0OCOWwG4">https://youtu.be/4v_0OCOWwG4</a>
To make students practice about hot, spicy, flavourful mushroom with fresh ground kadai masala	<a href="https://youtu.be/jkKszA5LQtk">https://youtu.be/jkKszA5LQtk</a>



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To make the students learn about the uses of wine service equipments	<a href="https://youtu.be/8avOU-Otbqc">https://youtu.be/8avOU-Otbqc</a>
To make the students learn about the uses of beer service equipments	<a href="https://youtu.be/91YHbkWPxVo">https://youtu.be/91YHbkWPxVo</a>
Students will be able to learn about the uses of cocktail bar equipment	<a href="https://youtu.be/rz8WVjgz7uk">https://youtu.be/rz8WVjgz7uk</a>
Students will learn about the service procedure of red wine	<a href="https://youtu.be/yQtyFXgwopo">https://youtu.be/yQtyFXgwopo</a>
Students will learn about the service procedure of white wine	<a href="https://youtu.be/hey2UxsFGWk">https://youtu.be/hey2UxsFGWk</a>
To make students learn about the service procedure of bottled and canned beer	<a href="https://youtu.be/kzsdXPe5twY">https://youtu.be/kzsdXPe5twY</a>
Students will learn how to track guest luggage movement in hotel on departure	<a href="https://youtu.be/dIU6LVi1LVY">https://youtu.be/dIU6LVi1LVY</a>
Procedure to learn how to pass luggage from guest room to the car of guest	<a href="https://youtu.be/OzZH40cWnGg">https://youtu.be/OzZH40cWnGg</a>
Room change slip make students learn about guest changing the room in hotel with reason	<a href="https://youtu.be/YFZR7gHlu5g">https://youtu.be/YFZR7gHlu5g</a>
To make students practice about the left luggage in hotel and its requirements.	<a href="https://youtu.be/agX_6f4U9To">https://youtu.be/agX_6f4U9To</a>
To make students practice about all activities performed by bell boy during shift in hotel	<a href="https://youtu.be/Q4U_xRyz9_E">https://youtu.be/Q4U_xRyz9_E</a>
To make students learn about the art to add an element of fun and elegance to the room.	<a href="https://youtu.be/PkmH2YrDcj4">https://youtu.be/PkmH2YrDcj4</a>
To make students learn about the art to give physical and psychological comfort to the guest	<a href="https://youtu.be/GdqLkYjpRos">https://youtu.be/GdqLkYjpRos</a>
It is a study to provide aesthetic appearance and maintaining cleaning standards	<a href="https://youtu.be/e1pPeHdILAw">https://youtu.be/e1pPeHdILAw</a>
To make students learn about the protocol to follow for cleaning dust from any surface	<a href="https://youtu.be/kPrDcko3PWs">https://youtu.be/kPrDcko3PWs</a>
To make students practice about particulars to be checked by supervisor before check in of the guest.	<a href="https://youtu.be/ibGz9XGdPJ4">https://youtu.be/ibGz9XGdPJ4</a>
To make students practice about the tools by which housekeeping staff cleans floors	<a href="https://youtu.be/YootdV616i8">https://youtu.be/YootdV616i8</a>
Students will be able to learn about the equipment used for serving spirits	<a href="https://youtu.be/RIH2efImAZM">https://youtu.be/RIH2efImAZM</a>
Students will be able to learn about the service of Whisky	<a href="https://youtu.be/o5OQuB-skNY">https://youtu.be/o5OQuB-skNY</a>
Students will be able to learn about the service of Tequila	<a href="https://youtu.be/tPdrdIUhdWI">https://youtu.be/tPdrdIUhdWI</a>
To make Students practice about the Arrival Errand Card with its requirements	<a href="https://youtu.be/E7xzaRTQVtM">https://youtu.be/E7xzaRTQVtM</a>
To make Students practice about the Departure Errand Card with its requirements & How it is made	<a href="https://youtu.be/bDjxRKt3Siw">https://youtu.be/bDjxRKt3Siw</a>
To make Students practice about the Luggage Out Pass with its requirements & why it is important of a check-out guest	<a href="https://youtu.be/99kGdYE4gxM">https://youtu.be/99kGdYE4gxM</a>
To make Students practice about the Room Change Slip with its requirements & when it is used & its importance	<a href="https://youtu.be/5iQaQjz7qHE">https://youtu.be/5iQaQjz7qHE</a>
To estimation of haemoglobin by sahli's method.	<a href="https://youtu.be/5vIvYjZXjhs">https://youtu.be/5vIvYjZXjhs</a>
To demonstrate the principle and demonstration of TLC.	<a href="https://youtu.be/JUV9heguHNo">https://youtu.be/JUV9heguHNo</a>
To study the various parts of compound microscope.	<a href="https://youtu.be/fdGyf6VYRAQ">https://youtu.be/fdGyf6VYRAQ</a>
To study various body fluids.	<a href="https://youtu.be/F4P64H2xcj4">https://youtu.be/F4P64H2xcj4</a>
Introduction and terms used in antimicrobial susceptibility testing.	<a href="https://youtu.be/pFudnCCR9Qs">https://youtu.be/pFudnCCR9Qs</a>
To study about the antimicrobial susceptibility testing.	<a href="https://youtu.be/Q9UJCvfigbY">https://youtu.be/Q9UJCvfigbY</a>
Preparation of various fixatives.	<a href="https://youtu.be/zOHNIJS3cB8">https://youtu.be/zOHNIJS3cB8</a>
Estimation of glucose tolerance test.	<a href="https://youtu.be/N7EHlIV3-yY">https://youtu.be/N7EHlIV3-yY</a>