

**SHANTILAL SHAH ENGINEERING COLLEGE BHAVNAGAR**

**PHYSICS (3110018)**

**B.E. SEM. II (EC, IT, IC & Electrical)**

**Gropus of Active Learning through Presentation (PPT) for EVEN TERM-2020**

**(Term Date: 20/01/2020 to 21/05/2020)**

<b>Group No.</b>	<b>Topic</b>	<b>Roll No.</b>	<b>Enrolment No.</b>	<b>Name of Student</b>
<b>EE_1</b>	Free electron theory Intrinsic and extrinsic Semiconductors Optical Transitions in Bulk semiconductors: Absorption Four-point probe measurment for carrier density Introduction of Superconductivity	7001	190430109001	ACHARYA DARSHAK ATULKUMAR
		7002	190430109002	AMBALIYA FAIYAZ SIRAJBHAI
		7003	190430109003	AMBALIYA KAMALKUMAR CHANDRAKANTBHAI
		7004	190430109004	BARAIYA BHAVESHBHAI MANJIBHAI
		7005	190430109005	BARAIYA HARDIK BATUKBHAI
		7006	190430109006	BARAIYA HITENBHAI PRAVINBHAI
<b>EE_2</b>	Density of states Dependance of fermi level on carrier concentration Optical Transitions in Bulk semiconductors: Spontaneous Emission Van Der Pauw measurment for carrier density Properties of Superconductor: Effect of magnetic field & Meissner effect	7007	190430109007	BHADELIYA JAYDEV HEMANTKUMAR
		7008	190430109008	BHAGAT RAMESH ASHOKBHAI
		7009	190430109010	BIHOLA PARTHRAJ KETANKUMAR
		7010	190430109011	BUDHELIYA RISHI VINODBHAI
		7011	190430109012	CHAUHAN KARAN SANJAYBHAI
		7012	190430109013	CHAVADA PARAG MANSUKHBHAI
<b>EE_3</b>	Energy band diagram Dependance of fermi level on Temperature Optical Transitions in Bulk semiconductors: Stimulated Emission Resistivity and Hall mobility Properties of Superconductor: Pressure effect, Impurity Effect	7013	190430109014	CHAVDA AKASH CHETANBHAI
		7014	190430109015	DABHI JAYESH SUNILBHAI
		7015	190430109016	DARJADA AVESH IKBALBHAI
		7016	190430109017	DHANDHALYA JATINBHAI HARIBHAI
		7017	190430109018	DHANDHUKIYA MIHIRBHAI PARESHBHAI
		7018	190430109019	DHOLAKIYA VIVEKKUMAR HASMUKHBHAI
<b>EE_4</b>	Kroning-Penny model Carrier Generation and Recombination Joint Density of States Hot-point probe measurement Properties of Superconductor: Isotopic mass effect	7019	190430109020	DIANSHU RUPESHKUMAR
		7020	190430109021	DOBARIYA VRUNDA DINESHBHAI
		7021	190430109022	GAJERA VINAS GHANSHYAMBHAI
		7022	190430109023	GAMIT AADARSHKUMAR RAMESHBHAI
		7023	190430109024	GOHEL TIRTH KANAIYALAL

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EE_5	Energy bands in Solids Carrier Transport: Drift Density of States of Photons Capacitance-Voltage measurement Mechanism of Superconductivity: BCS Theory	7024	190430109025	GOHIL AJAYBHAI SURESHBHAI
		7025	190430109027	GOHIL KIRPALSINH RAMDEVSIKH
		7026	190430109028	GOSWAMI JAYGIRI NAVINGIRI
		7027	190430109029	HADIYAL DHARMENDRABHAI CHHAGANBHAI
		7028	190430109030	JADAV MANISHBHAI MAGANBHAI
		7029	190430109031	JADEJA HARSHRAJSINH CHHOTUBHA
EE_6	E-k diagram Carrier Transport: Diffusion Transition rate (Fermi's golden rule) Parameter extraction from diode I-V characteristics Penetration Depth: Magnetic field	7030	190430109032	JAMBUKIYA ANKIT BHARATBHAI
		7031	190430109033	JANI KARANKUMAR NARENDRABHAI
		7032	190430109034	JOKHIYA AMAN FIROZBHAI
		7033	190430109035	JOSHI MEET ALPESHBHAI
		7034	190430109036	KALSARIYA HARSH HANSARAJBHAI
		7035	190430109037	KANKOTIYA HARSH JITESHBHAI
EE_7	Direct and Indirect bandgaps p-n junction Optical loss and gain DLTS Josephson Junction	7036	190430109039	KATHEKIYA ABHAYBHAI GANPATBHAI
		7037	190430109041	KAVAD SUMITBHAI HAKUBHAI
		7038	190430109042	KIKANI NEMISH DAKUBHAI
		7039	190430109044	KUSHWAHA DEEPANSHU RAMADHAR
		7040	190430109045	LALWANI ROHAN MUKESHBHAI
		7041	190430109046	MAJETHIYA HITESH VINOD
EE_8	Types of electronic material: Metals, Semiconductors & Insulators Metal-Semiconductor Junction: Ohmic Photovoltaic Effect Band gap by UV-Vis spectroscopy AC Josephson Effect	7042	190430109047	MAKAVANA JAYESHKUMAR SUKHABHAI
		7043	190430109048	MER PRADIP JAYESHBHAI
		7044	190430109049	NAKIYA SONALBEN NANJIBHAI
		7045	190430109051	OZA MANAN JAGDISHBHAI
		7046	190430109054	PARMAR KAUSHIKKUMAR HIMMATBHAI

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EE_9	Density of states Metal-Semiconductor Junction: Schottky Excitation Absorption/transmission DC Josephson Effect	7047	190430109055	PATEL ASTHA HITESHBHAI
		7048	190430109056	PATEL KRISH KALPESHBHAI
		7049	190430109058	PRAJAPATI DARSHAN LAXMANBHAI
		7050	190430109059	RAJYAGURU DEVKUMAR SURESHBHAI
		7051	190430109060	RAVAL SHIVAM PRASHANTBHAI
		7052	190430109061	SAHANI PRAMOD RAMPRAKASH
EE_10	Occupation probability Semiconductor Material for optoelectronic devices Drude model Four point probe measurement for carrier density Applications of Josephson Effect	7053	190430109062	SARVAIYA MEHUL VALJIBHAI
		7054	190430109063	SAVALIYA URVIL RATILAL
		7055	190430109064	SAVANIYA KETANKUMAR KANJIBHAI
		7056	190430109065	SENTA RAVIRAJ DAMAJIBHAI
		7057	190430109066	SHAH DEVANSH TUSHARKUMAR
		7058	190430109067	SHAH MUKESH KRISHNA
EE_11	Fermi level Intrinsic and extrinsic Semiconductors Joint Density of states Van Der Pauw measurement for carrier density Applications of Superconductivity	7059	190430109068	SHEIKH MAHIRA ARIFBHAI
		7060	190430109069	SINGH SANSKAR SURENDRASINGH
		7061	190430109070	SISODIYA ADITYASINH GHANSHYAMBHAI
		7062	190430109071	SOLANKI AMAN SHIVA
		7063	190430109072	SOLANKI NILESH CHINABHAI
		7064	190430109073	SOLANKI PRAKASH RAMESHBHAI
EE_12	Effective mass and phonons Carrier Transport: Drift and diffusion Transition rates (Fermi's golden rule) Band gap by UV-Vis spectroscopy Type-I and Type-II superconductors	7065	190430109074	SOLANKI PRUTHVISINH NARENDRASINH
		7066	190430109075	TUSAVDA MANISH KAILASHBHAI
		7067	190430109076	VAGADIYA ARCHITKUMAR RAJESHBHAI
		7068	190430109077	VAJA ISHVAR CHHAGANBHAI
		7069	190430109078	VALA NIRAJ NATHABHAI
		7070	190430109079	ZUNZA AASHISHKUMAR AMRUTBHAI
		7071	190430109080	RETIK SINGH KOTWAL

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<b>ECA_1</b>	<b>Kroning-Penny model</b> <b>Carrier Generation and Recombination</b> <b>Joint Density of States</b> <b>Hot-point probe and Van Der Pauw measurement for carrier density</b> <b>Mechanism of Superconductivity: BCS Theory</b>	4001	190430111001	BARAIYA ISHAVARBHAI MUKESHBHAI
		4002	190430111002	BAVALIYA MUKESHBHAI VANABHAI
		4003	190430111003	GARYALI ISHAN OPENDER
		4004	190430111004	GAUSWAMI CHIRAGGIRI RAMESHGIRI
		4005	190430111005	JOSHI MITESH LALITBHAI
		4006	190430111007	MAKWANA HITESH SURESHBHAI
<b>ICA_2</b>	<b>E-k diagrma, Effective mass, Phonons</b> <b>Metal-Semiconductor Junction: Ohmic &amp; Schottky</b> <b>Transition rates (Fermi's golden rule)</b> <b>DLTS, band gap by UV-Vis spectroscopy</b> <b>AC &amp; DC Josephson Effect and it's application-SQUID</b>	3001	190430117002	GAJERA BRIJESH ASHOKBHAI
		3002	190430117003	HIRVANIYA HARSH JAYESHKUMAR
		3003	190430117004	KACHHIYAPATEL DHYEY VIPULKUMAR
		3004	190430117005	PATEL KUNJ VINAYKUMAR
		3005	190430117006	PATEL RUSHI BHAVINBHAI
		3006	190430117008	KARAN MANHAS

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ITC_1	Free electron theory Intrinsic and extrinsic Semiconductors Optical Transitions in Bulk semiconductors: Absorption Four-point probe measurement for carrier density Introduction of Superconductivity	6001	190430116001	AGRAVAT DHAVALKUMAR ASHOKBHAI
		6002	190430116002	ANDHARIYA DHAIRYA JAYESHBHAI
		6003	190430116003	BAMBHANIYA DRASHTI NITINBHAI
		6004	190430116004	BAMROLIYA NEEL HEMANTBHAI
		6005	190430116005	BARAIYA DARSHANBHAI KISHORBHAI
		6006	190430116006	BARAIYA JAYRAJ MADHUBHAI
ITC_2	Density of states Dependence of fermi level on carrier concentration Optical Transitions in Bulk semiconductors: Spontaneous Emission Van Der Pauw measurement for carrier density Properties of Superconductor: Effect of magnetic field & Meissner effect	6007	190430116007	BARAIYA KULDIPKUMAR ASHOKBHAI
		6008	190430116008	BHADANI JAIMIN RAMESHBHAI
		6009	190430116010	CHAUHAN GOPALBHAI NAGJIBHAI
		6010	190430116011	CHAUHAN JAYPALJI JIVAJIBHAI
		6011	190430116012	CHAVDA VAIDEHIBA RANJITSINH
		6012	190430116013	CHHATBAR DEEP BHARAT
ITC_3	Energy band diagram Dependence of fermi level on Temperature Optical Transitions in Bulk semiconductors: Stimulated Emission Resistivity and Hall mobility Properties of Superconductor: Pressure effect, Impurity Effect	6013	190430116014	CHHATRALA DHARMIKKUMAR ASHVINBHAI
		6014	190430116015	CHUDASAMA UMESHKUMAR SAMATBHAI
		6015	190430116016	DABHI AJAYSINH MAHIPATSINH
		6016	190430116018	DANGAR KISHAN MUKESHBHAI
		6017	190430116019	DARJI AKSHATKUMAR HITESHBHAI
		6018	190430116021	DHOLARIYA ARPIT TULSHIBHAI
ITC_4	Kroning-Penny model Carrier Generation and Recombination Joint Density of States Hot-point probe measurement Properties of Superconductor: Isotopic mass effect	6019	190430116022	DODIYA KRIPALSINH KIRITSINH
		6020	190430116023	DWIVEDI ALOK SHRINATH
		6021	190430116024	FULTARIYA BHAVYA VIJAYBHAI
		6022	190430116026	GAJIPARA OM VAJUBHAI
		6023	190430116027	GAJJAR DHRUV SHAILESHBHAI

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ITC_5	Energy bands in Solids Carrier Transport: Drift Density of States of Photons Capacitance-Voltage measurement Mechanism of Superconductivity: BCS Theory	6024	190430116029	GAUDANI JAY BHARATBHAI
		6025	190430116030	GEDIYA RAJDIP KISHORBHAI
		6026	190430116031	GHODASARA RUTVIK RATILAL
		6027	190430116032	GODHANI PRIYANSH KISHORBHAI
		6028	190430116033	GOHEL DHAVAL RAJENDRABHAI
		6029	190430116034	GOHIL ABHAY MANOJBHAI
ITC_6	E-k diagram Carrier Transport: Diffusion Transition rate (Fermi's golden rule) Parameter extraction from diode I-V characteristics Penetration Depth: Magnetic field	6030	190430116035	GOHIL VISHAL HIMMATBHAI
		6031	190430116036	GORADIYA HARSH JATINKUMAR
		6032	190430116038	GUPTA SARVESH SUKHAJ
		6033	190430116039	HAPANI AKASHKUMAR BHARATBHAI
		6034	190430116040	HARSORA DEVANSHU SHAILESHBHAI
		6035	190430116041	HIRANI KASHYAPKUMAR PRAVINBHAI
ITC_7	Direct and Indirect bandgaps p-n junction Optical loss and gain DLTS Josephson Junction	6036	190430116042	HIRANI MANTHAN NITINBHAI
		6037	190430116043	ITALIYA KRRISHBHAI BHARATBHAI
		6038	190430116044	JADAV ADITIBEN BHARATBHAI
		6039	190430116045	JADAV KUMAR DINESHBHAI
		6040	190430116046	JAVIYA RAJKUMAR ASHWINBHAI
		6041	190430116047	JIKADARA BHAVIK VITTHALBHAI
ITC_8	Types of electronic material: Metals, Semiconductors & Insulators Metal-Semiconductor Junction: Ohmic Photovoltaic Effect Band gap by UV-Vis spectroscopy AC Josephson Effect	6042	190430116048	JIKADRA ROHITKUMAR KISHORBHAI
		6043	190430116051	JOSHI SHREYA SANJAYBHAI
		6044	190430116052	KAKADIYA SMIT VIKRAMBHAI
		6045	190430116053	KALKANI ANKESH ASHOKBHAI
		6046	190430116054	KAMANI HITESHA ASHVINBHAI

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ITC_9	Density of states Metal-Semiconductor Junction: Schottky Excitation Absorption/transmission DC Josephson Effect	6047	190430116055	KAMANI KOMAL PARASOTAMBHAI
		6048	190430116056	KAMBADIYA SANJAY PITHABHAI
		6049	190430116057	KATHIRIYA RONAK PARESHKUMAR
		6050	190430116059	KHASIYA NITINBHAI KURJIBHAI
		6051	190430116060	KHUNT HIREN BABUBHAI
		6052	190430116061	KHUNT SMIT JAGDISHBHAI
ITC_10	Occupation probability Semiconductor Material for optoelectronic devices Drude model Four point probe measurement for carrier density Applications of Josephson Effect	6053	190430116062	LAD KEVINKUMAR CHANDUBHAI
		6054	190430116063	LAD VISHAL HARISHBHAI
		6055	190430116064	LADVA NIKUNJ PRAVINBHAI
		6056	190430116066	LANIYA VIRENBHAI RAMNIKBHAI
		6057	190430116067	MAGTARPARA BHAVIK HIMMATBHAI
		6058	190430116068	MALANI NILKANTH VANDANKUMAR
ITC_11	Fermi level Intrinsic and extrinsic Semiconductors Joint Density of states Van Der Pauw measurement for carrier density Applications of Superconductivity	6059	190430116069	MANANI DEVANG BIPINBHAI
		6060	190430116070	MANGUKIYA DARSHAN RAMJIBHAI
		6061	190430116071	MEHTA JINAL NIRAJBHAI
		6062	190430116072	MEHTA JYOTIL PRAKASHBHAI
		6063	190430116073	MENDAPARA PRATIKKUMAR RAMESHBHAI
		6064	190430116074	MEVADA ASHABEN MAHENDRABHAI
ITC_12	Effective mass and phonons Carrier Transport: Drift and diffusion Transition rates (Fermi's golden rule) Band gap by UV-Vis spectroscopy Type-I and Type-II superconductors	6065	190430116075	MISTRY DUTTKUMAR AMITBHAI
		6066	190430116076	MORADIYA JUHILKUMAR PRAVINBHAI
		6067	190430116077	MORADIYA KARTIK NILESHBHAI
		6068	190430116078	MORADIYA SAURAV CHANDRAKANTBHAI
		6069	190430116079	MUNGLA DEEP JAYSUKHBHAI
		6070	190430116080	NAKRANI KARTIK RAMESHBHAI

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ITD_1	Free electron theory Intrinsic and extrinsic Semiconductors Optical Transitions in Bulk semiconductors: Absorption Four-point probe measurement for carrier density Introduction of Superconductivity	6071	190430116081	NANERA BHAVIN MALDEBHAJ
		6072	190430116082	NASIT PRADIP DINESHBHAJ
		6073	190430116083	NASIT VIVEKKUMAR DINESHBHAJ
		6074	190430116085	PAGHADAR VISHAL VAJUBHAJ
		6075	190430116086	PALADIYA JENISH RAJESHBHAJ
ITD_2	Density of states Dependence of fermi level on carrier concentration Optical Transitions in Bulk semiconductors: Spontaneous Emission Van Der Pauw measurement for carrier density Properties of Superconductor: Effect of magnetic field & Meissner effect	6076	190430116088	PANCHAL VINIT DHARMENDRAKUMAR
		6077	190430116089	PANCHANI PARTH PARSHOTAMBHAJ
		6078	190430116090	PANCHOLI DEVARSHI RASHMINBHAJ
		6079	190430116091	PANDYA DIP MAHESHBHAJ
		6080	190430116092	PANDYA KEVAL RAJESHBHAJ
ITD_3	Energy band diagram Dependence of fermi level on Temperature Optical Transitions in Bulk semiconductors: Stimulated Emission Resistivity and Hall mobility Properties of Superconductor: Pressure effect, Impurity Effect	6081	190430116093	PARMAR DARSHIL HARESHBHAJ
		6082	190430116094	PARMAR MEHULKUMAR BHAILALBHAJ
		6083	190430116095	PARMAR NIKUNJ MAHESHBHAJ
		6084	190430116096	PARMAR PARAG HASMUKH
		6085	190430116097	PARMAR UMANG SHAILESHBHAJ
ITD_4	Kroning-Penny model Carrier Generation and Recombination Joint Density of States Hot-point probe measurement Properties of Superconductor: Isotopic mass effect	6086	190430116098	PARMAR VISHWAJIT MAHENDRASINH
		6087	190430116099	PATEL DHRUTIBEN CHANDRAKANTBHAJ
		6088	190430116101	PATEL KRUTI SANJAYBHAJ
		6089	190430116102	PATEL MITENKUMAR MUKESHBHAJ
		6090	190430116103	PATEL RACHNABEN HITESHBHAJ
		6091	190430116104	PATEL SOHAM KAMLESHBHAJ
		6092	190430116105	PATEL UJJVAL SHAILESHBHAJ



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ITD_5	Energy bands in Solids Carrier Transport: Drift Density of States of Photons Capacitance-Voltage measurement Mechanism of Superconductivity: BCS Theory	6093	190430116106	PATEL VIRAJ SANJAYKUMAR
		6094	190430116107	PATEL VIRANGKUMAR HARSHADBHAI
		6095	190430116108	PATEL ZENILKUMAR MANISHKUMAR
		6096	190430116110	PATOLIYA VISHRUTI KANUBHAI
		6097	190430116111	PRAJAPATI JAYKUMAR GOPALBHAI
ITD_6	E-k diagram Carrier Transport: Diffusion Transition rate (Fermi's golden rule) Parameter extraction from diode I-V characteristics Penetration Depth: Magnetic field	6098	190430116112	RADADIYA VISHAL GIRISHBHAI
		6099	190430116113	RAI ADITYA AJAY
		6100	190430116114	RAIYANI RAVINDRAKUMAR PRAVINBHAI
		6101	190430116115	RAIYANI SOHIT DINESHBHAI
		6102	190430116116	RAJYAGURU UJJAWAL HIRENKUMAR
ITD_7	Direct and Indirect bandgaps p-n junction Optical loss and gain DLTS Josephson Junction	6103	190430116117	RANA DHAVAL PRAKASHBHAI
		6104	190430116118	RATHOD DIXIT DILIPBHAI
		6105	190430116120	RAY GAURAV RAVINDRA
		6106	190430116121	SADARIYA HARSHKUMAR BHAVESHBHAI
		6107	190430116122	SAKARIYA PARTH JITENDRABHAI
ITD_8	Types of electronic material: Metals, Semiconductors & Insulators Metal-Semiconductor Junction: Ohmic Photovoltaic Effect Band gap by UV-Vis spectroscopy AC Josephson Effect	6108	190430116123	SANANDIYA RIYA VINODKUMAR
		6109	190430116124	SAVANI MEETKUMAR JAGDISHBHAI
		6110	190430116125	SENJALIYA NIKUNJ JAYSUKHBHAI
		6111	190430116126	SHAH HITANSHI SANJAYBHAI
		6112	190430116127	SHEKHALIYA ISHAN JAYESHBHAI
		6113	190430116128	SHETH DRADHTA CHANDRESHKUMAR
		6114	190430116129	SHIR PRIYANK PUNJABHAI

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ITD_9	Density of states Metal-Semiconductor Junction: Schottky Excitation Absorption/transmission DC Josephson Effect	6115	190430116130	SINDHAV SIDDHARTH MAHADEVBHAI
		6116	190430116132	SINGH VISHAL SHESHNARAYAN
		6117	190430116133	SOJITRA JIGAR PRAVINBHAI
		6118	190430116134	SOLANKI BHAUTIKKUMAR MUKESHBHAI
		6119	190430116135	SOLANKI PRIYANSHU HASMUKHBHAI
ITD_10	Occupation probability Semiconductor Material for optoelectronic devices Drude model Four point probe measurement for carrier density Applications of Josephson Effect	6120	190430116136	SONAGARA ANILKUMAR MANAHARBHAI
		6121	190430116137	SONAGARA DIVYESH ALPESHBHAI
		6122	190430116138	SONI MAYANK VIKAS
		6123	190430116139	SUTARIYA VISHVABEN BHAVESHBHAI
		6124	190430116140	TANK MANISH KANTIBHAI
ITD_11	Fermi level Intrinsic and extrinsic Semiconductors Joint Density of states Van Der Pauw measurement for carrier density Applications of Superconductivity	6125	190430116141	THUMMAR KIRTANKUMAR ARVINDBHAI
		6126	190430116142	TILVA DHRUV BHAVESHBHAI
		6127	190430116143	TIWARI AKHILESH RAMMURTI
		6128	190430116144	VADADORIYA NITIN GOKALBHAI
		6129	190430116146	VAMJA HIMANI PRAVINBHAI
ITD_12	Effective mass and phonons Carrier Transport: Drift and diffusion Transition rates (Fermi's golden rule) Band gap by UV-Vis spectroscopy Type-I and Type-II superconductors	6130	190430116147	VIRADIYA HARSH BHARATBHAI
		6131	190430116149	VITHTHANI JIGAR LABHUBHAI
		6132	190430116150	VYAS PRADIP VALLABHBHAI
		6133	190430116151	ZALA SURYARAJ SINH DEVENDRASINH
		6134	190430116020	DHAPA RAJUBHAI HIMMATBHAI