

### Lesson Plan

Name of the Assessor/Associate Prof: Dr. Indira Kapur  
 Class and Section: B.Sc. II<sup>nd</sup> Sem. Sec. A (1-3), Sec. B (4-6)  
 Subject: Physics (Paper II)

Week	Date	Topic	
1	Sec A	1-Jan-18	Introduction of the syllabus of paper II (Electronic Devices)
		2-Jan-18	Components used in Electronic Circuits.
		3-Jan-18	Energy Bands in Solids
	Sec B	4-Jan-18	Energy bands in Solids.
		5-Jan-18	Intrinsic and extrinsic Semiconductors
		6-Jan-18	Carrier mobility and electrical resistivity of Semiconductors.
		7-Jan-18	Sunday
2	Sec A	8-Jan-18	Intrinsic and extrinsic Semiconductors.
		9-Jan-18	Carrier mobility and Resistivity of Semiconductors.
		10-Jan-18	Hall Effect.
	Sec B	11-Jan-18	Hall Effect
		12-Jan-18	PN Junction Diode and their characteristics.
		13-Jan-18	Zener and Avalanche breakdown, Zener Diode as a Voltage Regulator.
		14-Jan-18	Sunday
3	Sec A	15-Jan-18	PN Junction Diode and their characteristics.
		16-Jan-18	Zener and Avalanche breakdown, Zener Diode as a Voltage Regulator.
		17-Jan-18	Light Emitting Diode, Photoconduction in Semiconductors, Photodiode.
	Sec B	18-Jan-18	Light Emitting diode, Photoconduction in Semiconductors, Photodiode
		19-Jan-18	Solar cell, PN Junction as a half wave Rectifier
		20-Jan-18	PN Junction as a full wave Rectifier, L Filter, C Filter
		21-Jan-18	Sunday
4	Sec A	22-Jan-18	Vasant Panchami
		23-Jan-18	Solar Cell, PN Junction as a half wave Rectifier.
		24-Jan-18	Su Chhotu Ram Jyanti
	Sec B	25-Jan-18	LC, RC and TT Filters.
		26-Jan-18	Republic Day
		27-Jan-18	Revision of 1st unit/ Assignment.
		28-Jan-18	Sunday
5	Sec A	29-Jan-18	PN Junction as a Full wave Rectifier, L filter, C Filter.
		30-Jan-18	LC, RC and TT Filters
		31-Jan-18	Revision of 1st unit / Assignment.

**Lesson Plan**

Name of the Assistant/ Associate Professor: Dr. Indira Kapoor  
 Class and Section: B.Sc. Ind Sem, Sec A (1-3), Sec B (4-6)  
 Subject: Physics, Paper II

Week	Date	Topics
1	1-Feb-18	Numericals of 1st Unit
	2-Feb-18	Test of 1st Unit
	3-Feb-18	Basics of Transistors
	4-Feb-18	Sunday
2	5-Feb-18	Numerical of 1st unit
	6-Feb-18	Test of 1st unit
	7-Feb-18	Basics of Transistors
	8-Feb-18	Working of NPN and PNP Transistors
	9-Feb-18	Three configuration of transistor, CB characteristics of transistor <small>Maharshi Dayanand Saraswati Jayanti</small>
	10-Feb-18	
	11-Feb-18	Sunday
	12-Feb-18	Working of NPN and PNP Transistors <small>Maha Shivratri</small>
	13-Feb-18	
	14-Feb-18	Three configuration of transistor, CB characteristics of transistor
	15-Feb-18	Common emitter and common collector characteristics of transistor
3	16-Feb-18	Constants of a transistor and their relations. Advantages of CE C.
	17-Feb-18	D.C. load line, Bias Stabilisation.
	18-Feb-18	Sunday
	19-Feb-18	CE and CC configuration characteristics of transistor.
	20-Feb-18	Constants of a transistor and their relations. Advantages of CE configuration
4	21-Feb-18	D.C. load line, Bias Stabilisation.
	22-Feb-18	Various Methods of biasing.
	23-Feb-18	Continued (Various Methods of biasing).
	24-Feb-18	Revision/Assignment
25-Feb-18	Sunday	
5	26-Feb-18	Various Methods of biasing.
	27-Feb-18	Continued (Various Methods of biasing)
	28-Feb-18	Revision/Assignment University vacations

### Lesson Plan

Name of the Assistant/ Associate Professor: Dr. Indira Kapur  
 Class and Section: B.Sc. II<sup>nd</sup> Sem., Sec A (1-3), Sec B (4-6)  
 Subject: Physics, Paper II

Week	Date	Topics	
1	1-Mar-18	Guru Ravidas Birthday	
	Sec B	2-Mar-18	Holi
		3-Mar-18	University Vacations
	4-Mar-18	Sunday	
2	5-Mar-18	Revision of II <sup>nd</sup> Unit / Assignment.	
	Sec A	6-Mar-18	Numericals of II <sup>nd</sup> Unit
		7-Mar-18	Classification of Amplifiers.
Sec B	8-Mar-18	Numericals of II <sup>nd</sup> Unit	
	9-Mar-18	Classification of Amplifiers.	
	10-Mar-18	CB and CE Amplifiers	
	11-Mar-18	Sunday	
3	12-Mar-18	CB and CE Amplifiers.	
	Sec A	13-Mar-18	Various Methods of Coupling
		14-Mar-18	RC Coupled Amplifiers.
Sec B	15-Mar-18	Various Methods of Coupling	
	16-Mar-18	RC Coupled Amplifiers.	
	17-Mar-18	Feedback in Amplifiers, advantages of negative feedback	
	18-Mar-18	Sunday	
4	19-Mar-18	Feedback in Amplifiers, advantages of negative feedback	
	Sec A	20-Mar-18	Emitter Follower
		21-Mar-18	Distortion in Amplifiers.
Sec B	22-Mar-18	Emitter Follower	
	23-Mar-18	Shaheed Diwas of Bhagat Singh, Rajguru & Sukhdev	
	24-Mar-18	Distortion in Amplifiers	
	25-Mar-18	Sunday / Ram Navami	
5	26-Mar-18	Revision of III <sup>rd</sup> Unit	
	Sec A	27-Mar-18	Numericals of III <sup>rd</sup> Unit
		28-Mar-18	Test of III <sup>rd</sup> Unit.
Sec B	29-Mar-18	Mahav Jayanti	
	30-Mar-18	Revision of III <sup>rd</sup> Unit	
	31-Mar-18	Numericals of III <sup>rd</sup> Unit.	

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Name of the Assistant/ Associate Professor: Dr. Indea Kapur  
 Class and Section: B.Sc. Ind. Sem. Sec A (1-3), Sec B (4-6)  
 Subject: Physics, Paper II

Week	Date	Topics
1	1-Apr-18	Sunday
Sec A	2-Apr-18	Oscillators, classification of oscillators.
	3-Apr-18	Principle of oscillations, condition for self-sustained oscillations.
	4-Apr-18	Test Barkhausen criterion for oscillations, Hartley oscillator
	5-Apr-18	Test of III <sup>rd</sup> Unit.
Sec B	6-Apr-18	Oscillators, classification of oscillators.
	7-Apr-18	Principle of oscillations, condition for self-sustained oscillation.
	8-Apr-18	Sunday
Sec A	9-Apr-18	Tuned collector common emitter oscillator.
	10-Apr-18	C.R.O.
	11-Apr-18	Applications of C.R.O.
	12-Apr-18	Barkhausen criterion for oscillations, Hartley oscillator
Sec B	13-Apr-18	Tuned collector common emitter oscillator
	14-Apr-18	Dr. Ambedkar Jayanti - Vaisakhi
	15-Apr-18	Sunday
Sec A	16-Apr-18	Revision of IV <sup>th</sup> Units
	17-Apr-18	Numericals.
	18-Apr-18	Parashurama Jayanti
Sec B	19-Apr-18	C.R.O. and its applications.
	20-Apr-18	Revision and Numericals.
	21-Apr-18	Practical Exams
	22-Apr-18	Sunday
	23-Apr-18	Practical. Exams
	24-Apr-18	Continued
	25-Apr-18	Continued
	26-Apr-18	Continued
	27-Apr-18	Continued
	28-Apr-18	Continued,

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