



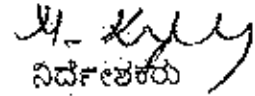
ಕರ್ನಾಟಕ ಸರ್ಕಾರ

ನಿರ್ದೇಶಕರ ಕಛೇರಿ, ಪದವಿ ಪೂರ್ವ ಶಿಕ್ಷಣ ಇಲಾಖೆ, ಸಂಪಿಗೆ ರಸ್ತೆ, 18ನೇ ಅಡ್ಡರಸ್ತೆ, ಮಲ್ಲೇಶ್ವರಂ, ಬೆಂಗಳೂರು
ಸಂಖ್ಯೆ: ಪಪೂಶಿಇ/ಶೈಶಾ-2/ಭೌ.ಪದ್ಯ.ಪು/2019-20 ದಿನಾಂಕ:- 19.10.2019

ಸುತ್ತೋಲೆ

ವಿಷಯ:-ಭೌತಶಾಸ್ತ್ರ ವಿಷಯದ ಎನ್.ಸಿ.ಇ.ಆರ್.ಟಿ ನಿಂದ ಮುದ್ರಿಸಿರುವ ಪಠ್ಯಪುಸ್ತಕದಲ್ಲಿ
ಕೆಲವು ಬದಲಾವಣೆಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುವ ಕುರಿತು

2019-20 ನೇ ಶೈಕ್ಷಣಿಕ ಸಾಲಿನಲ್ಲಿ ಎನ್.ಸಿ.ಇ.ಆರ್.ಟಿ ನಿಂದ ಮುದ್ರಿಸಿರುವ ದ್ವಿತೀಯ ಪಿಯುಸಿ
ಭೌತಶಾಸ್ತ್ರ ವಿಷಯದ ಪಠ್ಯಪುಸ್ತಕವನ್ನು ಹಿಂದಿನ ವರ್ಷದ ದ್ವಿತೀಯ ಪಿಯುಸಿ ಪುಸ್ತಕಕ್ಕೆ ಹೋಲಿಸಿದಾಗ
ಪಠ್ಯಪುಸ್ತಕದಲ್ಲಿ ಕೆಲವು ಅಂಶಗಳನ್ನು ಕೈಬಿಟ್ಟಿರುವುದು ಕಂಡುಬಂದಿರುತ್ತದೆ. ಸದರಿ ವಿಷಯದ ವಿಷಯ
ತಜ್ಞರ ಸಮಿತಿ ಶಿಫಾರಸ್ಸುಗಳನ್ನು ಆಧರಿಸಿ ಈ ಪತ್ರದ ಜೊತೆ ಲಗತ್ತಿಸಿರುವ ಬದಲಾವಣೆಗಳನ್ನು ಪ್ರಸ್ತುತ
ವರ್ಷದಿಂದಲೇ ಅಳವಡಿಸಿಕೊಳ್ಳಲಾಗಿದೆ. ಅದರಂತೆ ಬೋಧನಾವಧಿ ಮತ್ತು ಅಂಕಗಳ ವಿವರಣೆಯ
ಮಾಹಿತಿಯನ್ನು ಅನುಬಂಧ -01 ರಲ್ಲಿ ಲಗತ್ತಿಸಿದೆ. ಈ ಮಾಹಿತಿಯನ್ನು ತಮ್ಮ ಜಿಲ್ಲಾ ವ್ಯಾಪ್ತಿಯಲ್ಲಿ
ಬರುವ ಎಲ್ಲಾ ಪದವಿ ಪೂರ್ವ ಕಾಲೇಜುಗಳ ಪ್ರಾಂಶುಪಾಲರುಗಳಿಗೆ ಮತ್ತು ಭೌತಶಾಸ್ತ್ರ
ಉಪನ್ಯಾಸಕರುಗಳಿಗೆ ಹಾಗೂ ಎಲ್ಲಾ ವಿದ್ಯಾರ್ಥಿಗಳಿಗೆ ಮಾಹಿತಿಯನ್ನು ನೀಡುವಂತೆ ಕ್ರಮವಹಿಸಲು
ಸೂಚಿಸಿದೆ.


ನಿರ್ದೇಶಕರು

ಪದವಿ ಪೂರ್ವ ಶಿಕ್ಷಣ ಇಲಾಖೆ



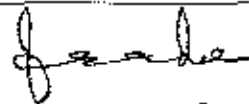
ಅಗತ್ಯ ಕ್ರಮಕ್ಕಾಗಿ:

- ರಾಜ್ಯದ ಎಲ್ಲಾ ಜಿಲ್ಲಾ ಉಪ ನಿರ್ದೇಶಕರು, ಪದವಿ ಪೂರ್ವ ಶಿಕ್ಷಣ ಇಲಾಖೆ- ಇವರ ಮೂಲಕ ಪದವಿ ಪೂರ್ವ ಕಾಲೇಜಿನ ಪ್ರಾಂಶುಪಾಲರಿಗೆ
- ಜಂಟಿ ನಿರ್ದೇಶಕರು(ಪರೀಕ್ಷೆ), ಪದವಿ ಪೂರ್ವ ಶಿಕ್ಷಣ ಇಲಾಖೆ, ಬೆಂಗಳೂರು

**DETAILS OF THE TOPICS WHICH ARE DELETED FROM THE OLD
TEXT BOOKS (PRINTED BEFORE 03/05/2019)**

As per the revised textbooks of Physics for II PUC, Part-I and Part-II (new Textbooks), printed date: 03/05/2019, the following topics are deleted:

TOPIC NO.	TOPIC	REMARKS
2.16	Vandegriff generator	Deleted
9.7	Dispersion by a prism	Deleted
9.9.1	The eye	Deleted
14.9	Junction transistor	Deleted
14.11	Integrated circuits	Deleted
Chapter - 15	Communication systems	The entire chapter is Deleted



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**Re-allotment of weightage of teaching hours
II PUC PHYSICS**

Unit No.	Chapter No.	Chapter Name	No. of existing teaching hours	No. of recommended teaching hours	Difference
I	1	Electric Charges and Fields	9	10	+1
II	2	Electrostatic Potential and Capacitance	9	9	No change
III	3	Current Electricity	15	15	No change
IV	4	Moving Charges and Magnetism	10	12	+2
V	5	Magnetism and Matter	8	8	No change
	6	Electromagnetic Induction	7	7	No change
VI	7	Alternating Current	8	8	No change
	8	Electromagnetic Waves	2	3	+1
VII	9	Ray Optics and Optical Instruments	9	10	+1
VIII	10	Wave Optics	9	10	+1
IX	11	Dual Nature of Radiation And Matter	6	6	No change
	12	Atoms	5	5	No change
X	13	Nuclei	7	7	No change
	14	Semiconductor Electronics	12	10	-2
	15	Communication Systems	4	00	-4
TOTAL			120	120	- -

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**Re-allotment of weightage of marks
II PUC PHYSICS**

Unit No.	Chapter No.	Chapter Name	No. of recommended teaching hours	Weightage of marks to be given
I	1	Electric Charges and Fields	10	8
II	2	Electrostatic Potential and Capacitance	9	8
III	3	Current Electricity	15	13
IV	4	Moving Charges and Magnetism	12	10
V	5	Magnetism and Matter	8	7
	6	Electromagnetic Induction	7	6
VI	7	Alternating Current	8	7
	8	Electromagnetic Waves	3	3
VII	9	Ray Optics and Optical Instruments	10	9
VIII	10	Wave Optics	10	9
IX	11	Dual Nature of Radiation And Matter	6	5
	12	Atoms	5	5
X	13	Nuclei	7	6
	14	Semiconductor Electronics	10	9
TOTAL			120	105


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Design of Question Paper

II PUC PHYSICS (33)

Time: 3 Hours 15 Minutes (of which 15 minutes for reading the question Paper).

Max. Marks: 70

The weightage of the distribution of marks over different dimensions of the question paper is as follows:

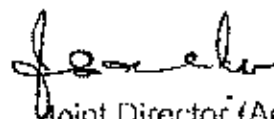
A. Weightage to Objectives:

Objective	Weightage	Marks
Knowledge	40%	43/105
Understanding	30%	31/105
Application	20%	21/105
Skill	10%	10/105

B. Weightage to content/subject units:

Unit No.	Chapter No.	Topic	No. of Hours	Marks
I	1	Electric Charges and Fields	10	8
II	2	Electrostatic Potential and Capacitance	9	8
III	3	Current Electricity	15	13
IV	4	Moving Charges and Magnetism	12	10
V	5	Magnetism and Matter	8	7
	6	Electromagnetic Induction	7	6
VI	7	Alternating Current	8	7
	8	Electromagnetic Waves	3	3
VII	9	Ray Optics and Optical Instruments	10	9
VIII	10	Wave Optics	10	9
IX	11	Dual Nature of Radiation And Matter	6	5
	12	Atoms	5	5
X	13	Nuclei	7	6
	14	Semiconductor Electronics	10	9
TOTAL			120	105

Note: Variation of 1Mark per chapter is allowed, however the total marks should not exceed 105.



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C. Weightage to forms of Questions:

Part	Question Main	Type of questions	Marks	Number of questions to be set	Number of questions to be answered
A	I	Very short answer(VSA)	1	10	10
B	II	Short answer(SA1)	2	8	5
C	III	Short answer(SA2)	3	8	5
D	IV	Long answer(LA)	5	3	2
	V	Long answer(LA)	5	3	2
	VI	Numerical Problems(NP)	5	5	3

Note:

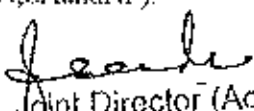
1. Questions in IV Main must be set from Unit I to V.
2. Questions in V Main must be set from Unit VI to X.
3. Questions in VI Main must be set such that one Numerical Problem is from every 2 successive units.

D. Weightage to level of difficulty:

Level	Weightage	Marks
Easy	40%	43/105
Average	40%	42/105
Difficult	20%	20/105

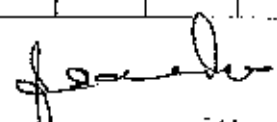
General instructions

- Questions should be clear, unambiguous, understandable and free from grammatical errors.
- Questions which are based on same concept, law, fact etc. and which generate the same answer should not be repeated and of different forms (VSA, SA, LA and NP).


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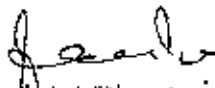
II P.U.C PHYSICS (33)
Revised Blue print – I

Unit	Chapter	Topic	Teaching Hours	Marks allotted	1 mark (VSA)	2 mark (SA1)	3 mark (SA2)	5 mark (LA)	5 mark (NP)
1	1	Electric Charges and Fields	10	8	✓	✓			✓
2	2	Electrostatic Potential and Capacitance	9	8		✓	✓✓		
3	3	Current Electricity	15	13	✓	✓		✓	✓
4	4	Moving Charges and Magnetism	12	10		✓	✓	✓	
5	5	Magnetism and Matter	8	7		✓		✓	
	6	Electromagnetic Induction	7	6	✓	✓	✓		
6	7	Alternating Current	8	7		✓			✓
	8	Electromagnetic Waves	3	3	✓	✓			
7	9	Ray Optics and Optical Instruments	10	9	✓		✓	✓	
8	10	Wave Optics	10	9	✓		✓		✓
9	11	Dual nature of Radiation And Matter	6	5	✓✓		✓		
	12	Atoms	5	5					✓
10	13	Nuclei	7	6	✓			✓	
	14	Semiconductor Electronics	10	9	✓		✓	✓	
TOTAL			120	105	10	16	24	30	25


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II P.U.C PHYSICS
Revised Blue print – II

Unit	Chapter	Topic	Teaching Hours	Marks allotted	1 mark (VSA)	2 mark (SA1)	3 mark (SA2)	5 mark (LA)	5 mark (NP)
1	1	Electric Charges and Fields	10	8	✓	✓		✓	
2	2	Electrostatic Potential and Capacitance	9	8			✓		✓
3	3	Current Electricity	15	13	✓	✓✓	✓	✓	
4	4	Moving Charges and Magnetism	12	10		✓	✓		✓
5	5	Magnetism and Matter	8	7	✓		✓✓		
	6	Electromagnetic Induction	7	6	✓			✓	
6	7	Alternating Current	8	7		✓			✓
	8	Electromagnetic Waves	3	3	✓	✓			
7	9	Ray Optics and Optical Instruments	10	9	✓		✓		✓
8	10	Wave Optics	10	9	✓✓	✓		✓	
9	11	Dual nature of Radiation And Matter	6	5		✓	✓		
	12	Atoms	5	5				✓	
10	13	Nuclei	7	6	✓				✓
	14	Semiconductor Electronics	10	9	✓		✓	✓	
TOTAL			120	105	10	16	24	30	25


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