13-140-14-5C. UWUCC Use Only Proposal No. 12 24 JSCJIse Only Proposal No: UWUCC Action-Date: App. 9/3//4 Senate Action Date: App. 11/4/14 LSC Action-Date: 1-10_In/4/12 Phone (-4590 or 7-2373 Proposing Department/Unit Physics Check all appropriate line was complete all info u<mark>ov</mark>anijsm<mark>jus</mark>sin<mark>i</mark>jnir X....n.......xxxxxXIIIImfloxiissymmättii = XXIIIIII (XXXXIIIIII) yy yy and the second statement and the contract of t "Jaruar-and action against and "Touch Wilder Wilder Wild Dr. All Jaruar and British (1982) and Admid 1984 ... _ L-boryl Adollus -bakanighirord .all.llibraskidalillillillir/bilg/Sais -bil/llibr/ 46/5.lki/95-drig ապիտարց այրումից _~XXIIII \uddailada^\uddailada _x._0m=2%_____x AR THEN TO THE HIND OF THE REPORT OF THE REP next(s,app))haqi (b.tta.y.arg/methqafbara" (bips,edffmerity Justos sytembolingmunijile, wateriliner; Zonamining Horn & The inverger - Pellugggunnillandlalam Manager "May Character "allellor" tellelle. J-Moor Stormen Shipmaner "efferent soggenmind Programmin www.Xyeaxxxxxxxxxxxxxaaaaaaaaaa Mazamumolamosurmous and Malamadom ANNO TINESTIA IIII (1<mark>800) (1807) | Harring (1807) | H</mark>arring (1807) | Harring (1807) | <mark>wax</mark>ama X.<mark>.a.."..am</mark>aa#sa#

COURSE SYLLABUS

I.CATALOG DESCRIPTION

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Rationale: Homework and tests will include questions on electrostatics, D.C. and A.C. circuits, magnetism, electromagnetism, reflection, refraction, interference, diffraction, and radioactivity. Working on these questions and solving these problems will inform the learner about the topics in the course.

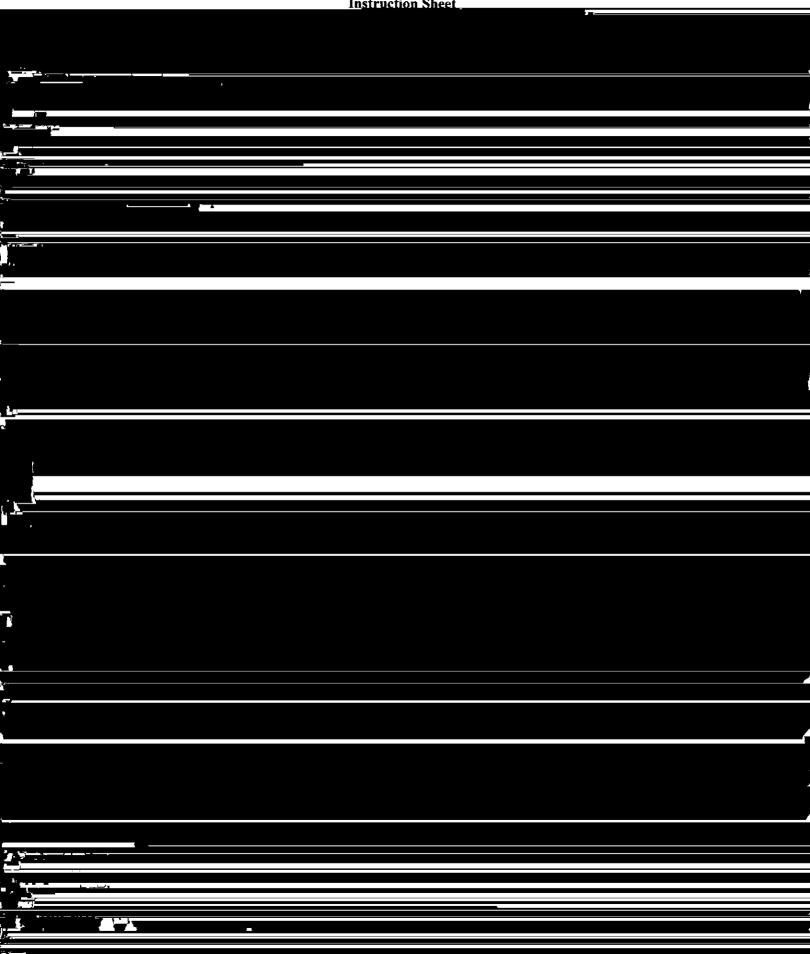
III. **COURSE OUTLINE** A. Electrostatics (6 hours) 1. Coulomb's law 2. Electric field Potential energy and potential 3. 4. Potential difference Canacitors

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		The hour exam during exam week	(2 hours)	
		Three one hour exams	(3 hours)	
		 Ionizing radiation & safety Nuclear fission & fusion 		
		 Radioactive decay Elementary particles 		

IX . BIBLIOGRAPHY

	Bueche, F., Hecht, Schaum's Outline of College Physics, 11th Edition 2011, McGraw-Hill;
	Giancoli, D., Physics for Scientists and Engineers with Modern Physics. 4th edition, 2008, Addison-
•	
	Knight, R., Physics for Scientists & Engineers with Modern Physics, 3rd Edition, 2013, Addison-Wesley
	Serway, R., Physics for Scientists & Engineers 9th Edition, 2009, Brooks Cole
	W. C D. Parantial Hadronatte, DN - 2 20d F. J. Stan. 2012 A. J. Jian Washer.

Liberal Studies Course Approval Checklist Instruction Sheet



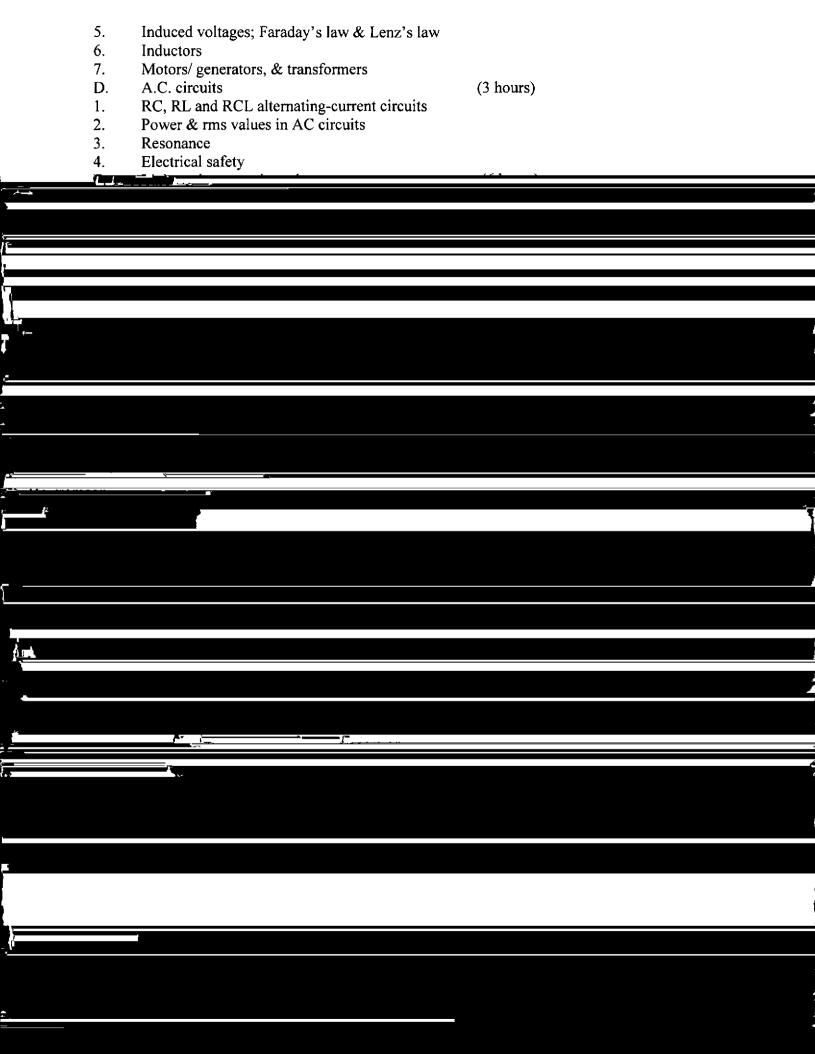
OLD COURSE SYLLABUS

CATALOG DESCRIPTION PHYS 112 Physics II Lecture

3c-01-3cr

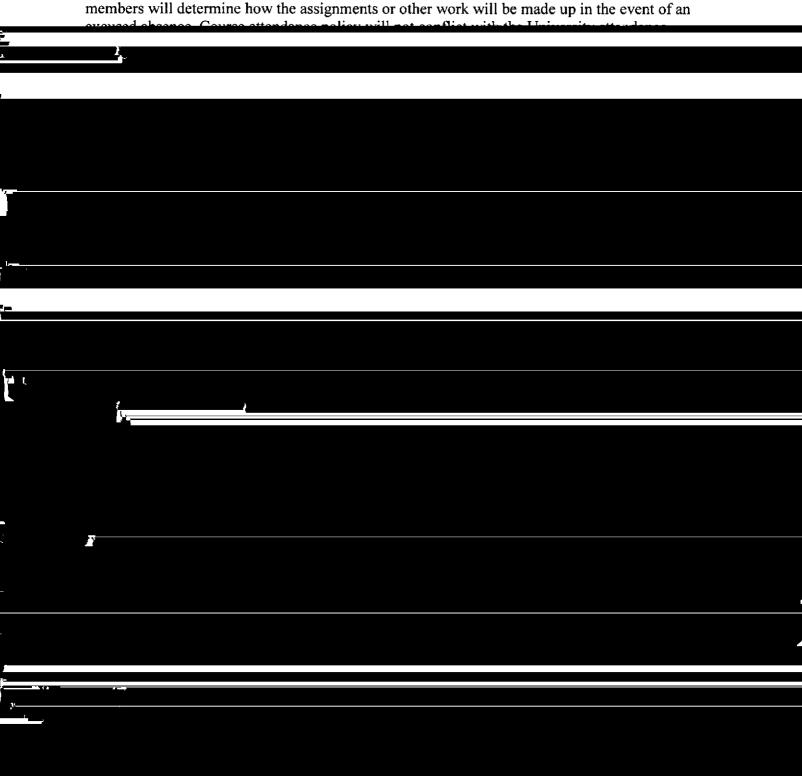
Prerequisite: PHYS 111

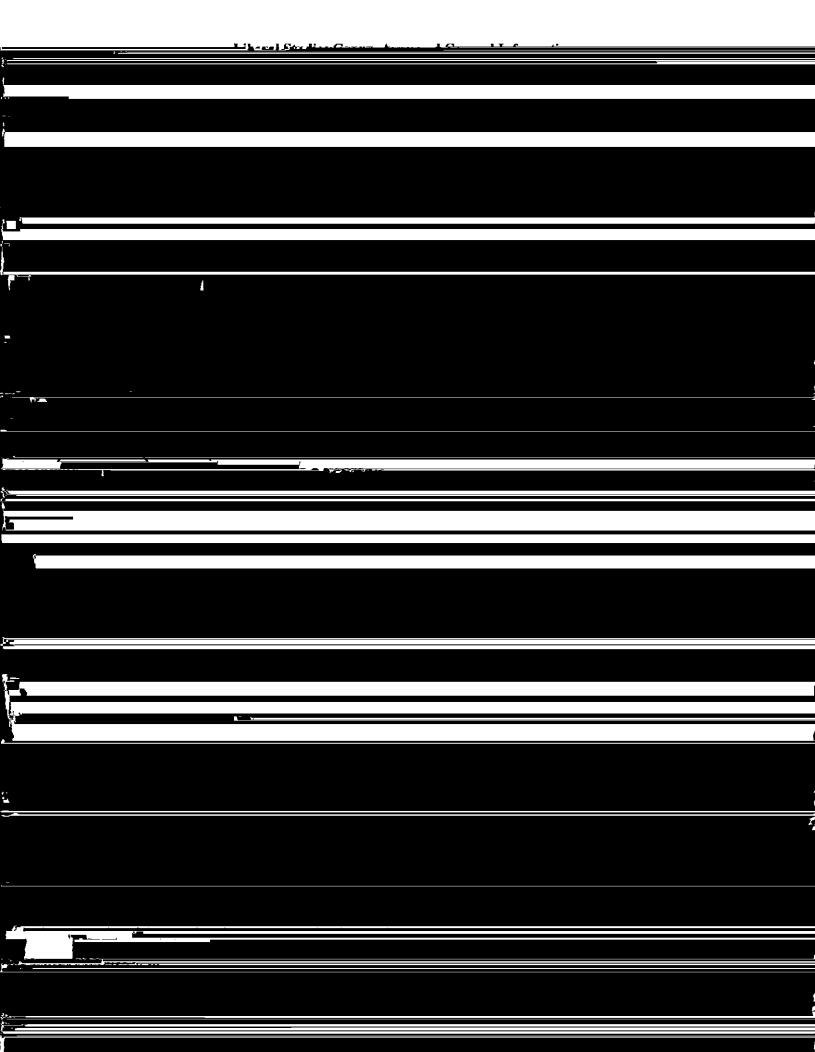
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VI. ATTENDANCE POLICY

Students are expected to attend all lectures. Individual faculty members assigned to this course will determine the specific attendance requirements for this course. In certain situations, such as illness, personal emergency or active military duty, students will be excused for missing class if a written excuse or other proof of absence is provided to the instructor. Individual faculty members will determine how the assignments or other work will be made up in the event of an

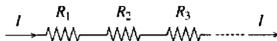


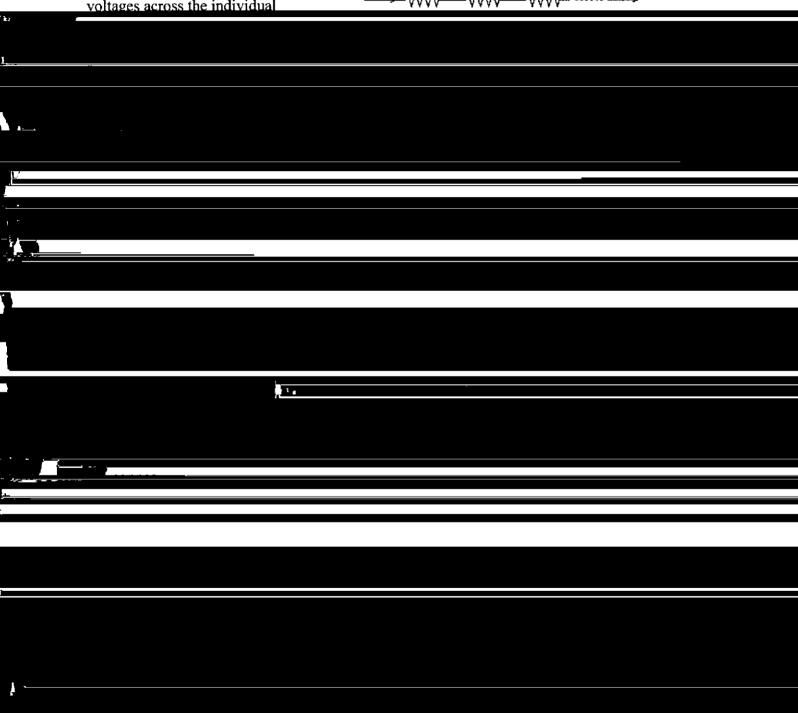


Finding the equivalent resistance is relatively straight forward if the circuit contains only series and parallel connections of resistors.

An example of a **series connection** is shown in the diagram:

For such a connection, the current is the same for all individual resistors and the total voltage is the sum of the voltages across the individual





resistance is the sum of the reciprocals of the individual resistances.

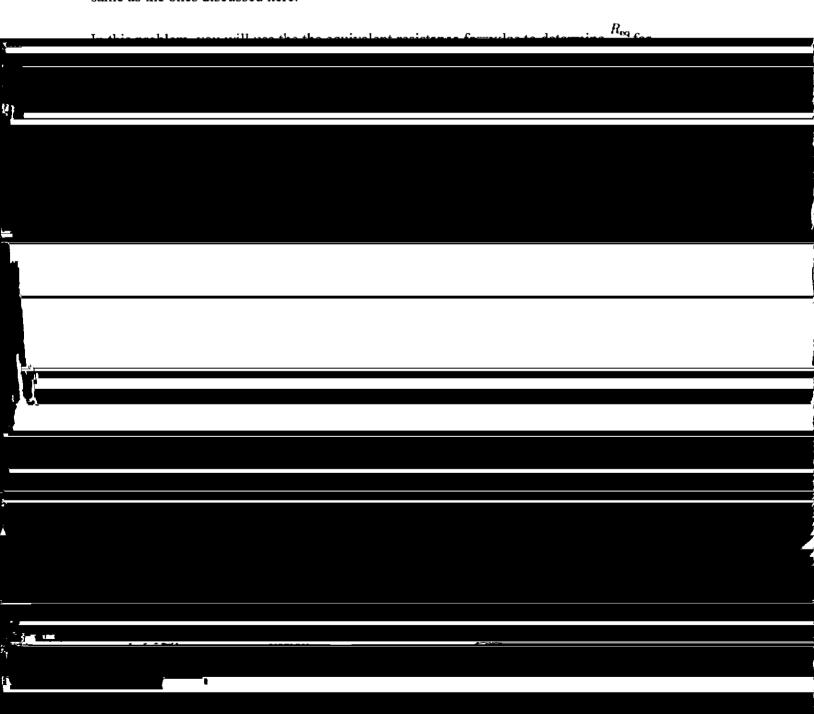
Mathematically, these relationships can be written as:

$$V = V_1 = V_2 = V_3 = ...$$

$$I = I_1 + I_2 + I_3 + ...$$

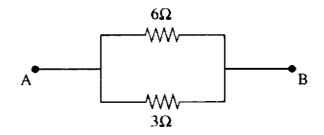
$$\frac{1}{R_{\text{eq-parallel}}} = \frac{1}{R_1} + \frac{1}{R_2} + \frac{1}{R_3} + ...$$

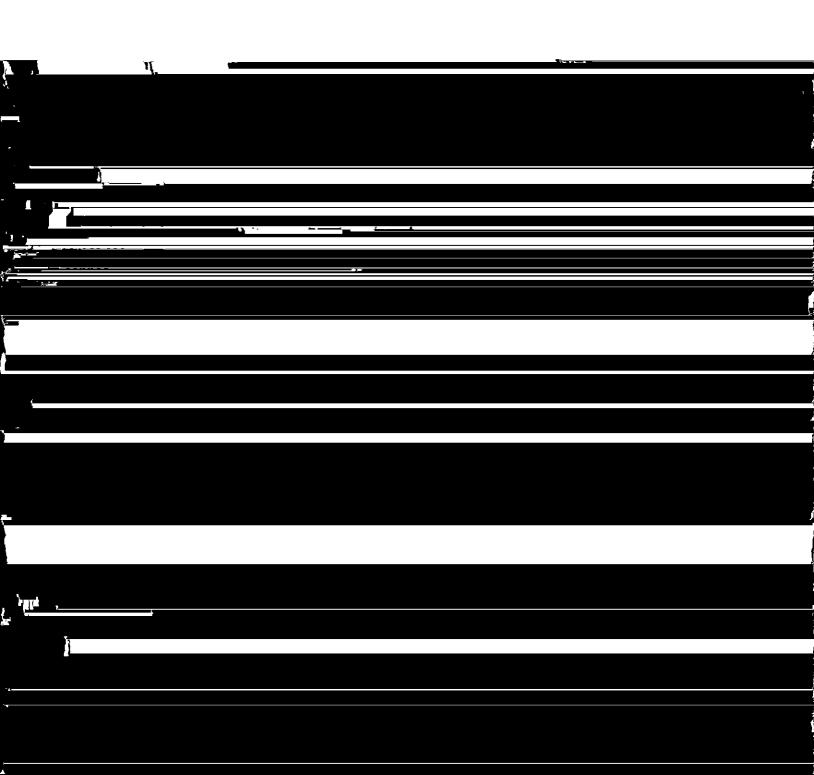
NOTE: If you have already studied capacitors and the rules for finding the equivalent capacitance, you should notice that the rules for the capacitors are similar - but not quite the same as the ones discussed here.



For the set-up shown, find the equivalent resistance between points A and B.

Express your answer in Ohms.





Deduct 3% credit for incorrectly answering any other type of question before the last attempt. Students can view hints. There are questions within the hints which the student may answer for credit Credit will be given for questions answered correctly in the hint. Ropus credit of 20% will be given if the student doce not open the hint