

0 Residential Construction III – Course Plan

Week	Outcomes	Format	Hours	Topic/Content	Readings	Assignments	Assessment	Resources
1,2	1,2	Lecture	2	Interior wall and ceiling finishing	Chap. 16,	Workbook	p. 569 quiz	Handouts,
				<u>Describe</u>	рр. 531-	chap. 16, pp.	ques. #1-20	calculators, green
				Wallboard cutting, nailing and adhesive	567	99-105		tag safety boots,
				techniques				safety glasses. Text
				Characteristics of gypsum plaster, plastering				book Modern
				methods				<i>Carpentry,</i> along
				Methods for levelling and installing suspended				with accompanying
				ceilings				work book.
		Lab	6	Apply			Practical	Construction
				Wall and ceiling covering materials			activities	materials as
				Procedure for installing wood panelling				arranged by
				Apply plastering methods				<i>instructor</i> : drywall,
				Gypsum and metal lathe				mud, cement board
				Layout ceiling tile and furring strips				
3,4	1,2	Lecture	2	Finish flooring	Chap. 17,	Workbook	p. 595 quiz	As above and various
				<u>Describe</u>	рр. 571-	chap. 17,	ques. #1-15	flooring samples,
				Strip, plank and unit block wood flooring	594	рр. 107-111		underlays and
				Procedure for hardboard, particle and wafer				adhesives
				board, plywood underlayment				
		Lab	6	Apply			Practical	
				Layout and install strip flooring			activities	

5	1,3	Lecture	1	Doors and interior trim	Chap. 19,	Workbook	p. 645 quiz,	As above and
				Explain	рр. 619-	chap. 19, pp.	ques. # 1-20	mouldings, door
				The difference between panel and flush-type	644	119-125		frames, casings,
				doors				hinges and door
				Steps for hanging the door				knobs
				<u>Identify</u>				
				How door frames and casings are installed				
				Name lock parts and describe typical				
				installation procedures				
				Pocket and bypass types of sliding doors				
				The order in which window members should be				
				applied				
		Lab	3	Apply			Practical	
				Cut, fit and nail baseboard trim, window trim			activities	
				and interior door jambs				
6,7	1,4	Lecture	2	Cabinetry	Chap. 20,	Workbook	p. 674 quiz,	As above and various
				Describe	рр. 647-	chap. 20, pp.	ques. # 1-15	types of wood,
				Types of cabinetry	674	127-133		laminated plywood
				Selecting prefab cabinetry				
				Common alternative procedures for building				
				cabinets on the job				
				Three types of drawer guides				
				Material choices for cabinet shelves and doors				
				How to install a plastic laminate surface				
		Lab	^	Apply			Practical	
		Lan	6	Apply			Tractical	
		Lad	6	Install prefabricated base and wall cabinets			activities	
		LdD	6	Install prefabricated base and wall cabinets Layout and frame a cabinet from drawings				
		LaD	6	Install prefabricated base and wall cabinets Layout and frame a cabinet from drawings Install plastic laminate to a surface				
		Lau	6	Install prefabricated base and wall cabinets Layout and frame a cabinet from drawings				

8	1,2	Lecture Lab	1 3	Painting, finishing and decoratingIdentifySafety rules applying to painting and finishingProper tools for painting and finish decoratingPerformProper procedures for painting, finishing andwallpaper hangingPrepare surfaces for paintingApply	Chap. 21, pp. 677- 702	Workbook chap. 21, pp. 135-137	p. 702 Test ques. # 1-20 Practical activities	As above and patching material, sanding tools, paint, brushes and caulking
9	1,4	Lecture	1	Trade related math to estimate paint coverage Proper cleaning and storing of equipment Primer coat and finish coat Chimneys and fireplaces	Chap. 22,	Workbook	p. 720 quiz,	As above and
	-, ·			Explain How masonry chimneys are constructed around a flue lining Procedures for construction of a chimney, hearth, walls and throat Common types of factory built fireplaces <u>Identify</u> Parts of a typical masonry fireplace Considerations for installing factory-built fireplace units	pp. 705- 719	chap. 22, pp. 139-143	ques. # 1-10	masonry tools, mortar, flue pipe. Certified fireplace and wood stove inspector
		Lab	3	<u>Apply</u> Calculate the flue area of a given fireplace Install a prefabricated flue			Practical activities	

10	1,6	Lecture	1	Post-and-beam construction	Chap. 23,	Workbook	p. 738 Test,	As above and
				Describe	pp. 721-	chap. 23,	ques. # 1-10	engineered and
				Advantages and disadvantages of post-and-	738	pp. 145-149		laminated materials
				beam construction				
				Specifications for supporting posts				
				How roof and floor planks should be selected				
				and installed				
				Explain				
				Traverse and longitudinal beams				
		Lab	3	Perform			Practical	
				Sketch basic construction details of stressed			activities	
				skin panels and box beams				
				Identify				
				Nailing and bolting patterns				
11	1,7	Lecture	1	Systems-built housing	Chap. 24,	Workbook	p. 756 Test,	As above and various
				Describe	рр. 741-	chap. 24,	ques. # 1-10	types of systems,
				Technology of systems-built housing	755	pp. 151-153		hangers, bolts and
				Identify				nailing
				Variety of factory built components that are				
				utilized in a systems-built home				
				Differentiate between the basic types and				
				systems-built structures				
				Terms used in the systems-built housing				
				industry				
		Lab	3	industry			Practical	
		Lab	3	industry Method of moving systems-built housing			Practical activities	

12	1,8	Lecture	1	Passive solar construction	Chap. 25	Workbook	p. 775 Test,	As above and a
				Describe	pp. 757-	chap. 25,	ques. # 1-10	selection of passive
				The difference between passive and active solar	774 and	рр. 155-158		solar drawings
				construction	chap.26 pp.			
				A solar retrofit on an older home	797-798			
				Define				
				Conduction, convection, radiation and thermal				
				siphoning				
		Lab	3	Apply			Practical	
				Calculate the amount of glazing and storage			activities	
				needed for a passive solar system				
				Locate a dwelling for maximum solar gain				
				Design and install various passive solar systems				
13	1,9	Lecture	1	Remodelling, renovating and repairing	Chap. 26	Workbook	p. 801 Test,	As above and various
				<u>Identify</u>	рр. 777-	chap. 26,	ques. # 1-15	demolition tools
				Different types of residential construction by	801	рр. 159-162		both hand and light
				visual inspection				powertools
				Bearing walls				
				Accepted methods in replacing all types of				
				doors				
				Describe				
				Proper sequence of renovations or repair				
				Repair and replace deteriorated components				
				and systems				
				How to remove parts of a structure without				
				damaging the total structure Determine loads and calculate the correct				
		Lab	3	header size for a span			Practical	
		Lau	5	Apply			activities	
				Install and support headers, concealed headers and saddle beams			activities	
				Make repairs to wood and asphalt shingles				

14	1,10	Lecture	1	Building decks and porchesIdentifyDifferent types of decks and porchesAdvantages and disadvantages of differentstructural and decking materialsDifferences between deck and porchconstructionApplySelect and install the appropriate types offasteners for deck constructionPrepare a site, layout and construct a deck	Chap. 27 pp. 803- 819	Workbook chap. 27, pp. 163-164	p. 819 Test, ques. # 1-10 Practical activities	As above and various decking materials and fasteners used for decks and porches including composites
15	1,2,3,4, 5,6,7,8, 9,10 1,2,3,4,	Lecture / lab Lecture	4	Building project completion Complete term project work and all practical activities Review ; take up and discuss final test/			Practical activities <i>Final test</i>	
	5,6,7,8, 9,10			assignments / practical activities / sharing and feedback				