



Department of Basic and Applied Science  
Smart Village Campus

ME151

Engineering Drawing

Fall 2013

Course Outline

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<b>Objective:</b>	<ul style="list-style-type: none"><li>- Teaching the students the language through which designers, Engineers and Technicians communicate ideas and designs</li><li>- Developing the student skills in using the drafting tools as well as giving them the habits of accuracy, neatness and cleanliness.</li><li>- Exposing the student to simple plane geometrical constructions that are excessively used in producing graphical representations of real life machine parts and components</li></ul>													
<b>Text:</b>	Engineering Drawing, Course no. (B151), Department of Basic and Applied Science													
<b>Grading:</b>	<p><u>Evaluating system</u></p> <p><u>Evaluating system</u></p> <table><tr><td>1- 5<sup>th</sup> Week Quiz</td><td>10 marks</td></tr><tr><td>2- 7<sup>th</sup> Week Exam</td><td>20 marks</td></tr><tr><td>3- 12<sup>th</sup> Week Exam</td><td>20 marks</td></tr><tr><td>4- Pre- Final (Year work)</td><td>10 marks</td></tr><tr><td>5- Final Exam</td><td>40 marks</td></tr><tr><td>Total</td><td>100 marks</td></tr></table>		1- 5 <sup>th</sup> Week Quiz	10 marks	2- 7 <sup>th</sup> Week Exam	20 marks	3- 12 <sup>th</sup> Week Exam	20 marks	4- Pre- Final (Year work)	10 marks	5- Final Exam	40 marks	Total	100 marks
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Good Luck

Week of		E V E N T	
1	Sept 23 <sup>rd</sup>	<b>Lecture</b>	- Introduction and standardization of engineering Drawings - Geometric constructions Tangent arcs, regular polygons, ellipse.....
		<b>Tutorial</b>	Sheet (1), Page 59, # 1,2,3 + Sheet (2)
2	Sept 30 <sup>th</sup>	<b>Lecture</b>	<b>Application of geometric constructions in a scale of 1:1 (Keeping points of tangency and not putting dimensions on the drawing)</b>
		<b>Tutorial</b>	Page 60 # 4, 6, 8, 11, 15 + sheet (3)
3	Oct 7 <sup>th</sup>	<b>Lecture</b>	<b>Orthogonal Projection:</b> Orthogonal projection of simple components of flat surfaces in a scale of 1:1
		<b>Tutorial</b>	Page 66 # 30, 31, 33 + sheet (4)
	Oct 14 <sup>th</sup>	<b>Aladha Feast</b>	
4	Oct 21 <sup>st</sup>	<b>Lecture</b>	<b>Orthogonal Projection:</b> Orthogonal projection of flat and inclined surfaces in a scale of 1:1, the intersection between the flat and inclined surfaces
		<b>Tutorial</b>	Page 66 # 34, 36, 37, Page 67 # 39, 40 + sheet (4) + <b>Quiz (10 marks)</b>
5	Oct 28 <sup>th</sup>	<b>Lecture</b>	<b>Orthogonal Projection:</b> Orthogonal projection of flat and round surfaces in a scale of 1:1, the intersection between the flat and rounded surfaces
		<b>Tutorial</b>	Page 66 # 35, Page 67 # 42, 43, Page 68 # 44, 47
6	Nov 4 <sup>th</sup>	<b>Seventh Exam (20 marks)</b>	
7	Nov 11 <sup>th</sup>	<b>Lecture</b>	<b>Isometric Projection:</b> Application on redrawing the isometric of components
		<b>Tutorial</b>	Page 66 # 32, 35, Page 67# 38, 41 Page 68 # 46,48
8	Nov 18 <sup>th</sup>	<b>Lecture</b>	<b>Missing view:</b> Application on deducing the missing view from the given views
		<b>Tutorial</b>	Page 69 # 50, 52, 54, 55, Page 70 # 58, 60, Page 71 # 66, 68, 71, + sheet (5)
9	Nov 25 <sup>th</sup>	<b>Lecture</b>	<b>Missing view:</b> Application on deducing the missing view from the given views <b>Sections:</b> Application of full sectioning of components
		<b>Tutorial</b>	<b>Missing view :</b> Page 74, #85, sheet (5) / <b>Sections:</b> Sheet (6)
10	Dec 2 <sup>nd</sup>		<b>Sections:</b> Application of full sectioning of components
			Page 79 # 103, 104, 105 + Sheet (6)
11	Dec 9 <sup>th</sup>	<b>Twelfth Exam (20 marks)</b>	
12	Dec 16 <sup>th</sup>	<b>Lecture</b>	<b>Sections:</b> Application of revolved, remove and offset sectioning of components
		<b>Tutorial</b>	Page 80 # 108, 109, 110 + Sheet (6)
13	Dec 23 <sup>rd</sup>	<b>Lecture</b>	<b>Dimensioning:</b> Drawing of components and dimensioning the views
		<b>Tutorial</b>	Sheet (7)
14	Dec 30 <sup>th</sup>	<b>Lecture</b>	<b>Revision</b>
		<b>Tutorial</b>	Revision
15	Jan 6 <sup>th</sup>	<b>Final Exam</b>	