



COLLEGE OF INDUSTRIAL TECHNOLOGY
IndTech 111 – INDUSTRIAL DRAWING

UNIVERSITY VISION

A leading University in advancing scholarly innovation, multi-cultural convergence, and responsive public service in a borderless Region.

UNIVERSITY MISSION

The University shall primarily provide advanced instruction and professional training in science and technology, agriculture, fisheries, education and other related fields of study. It shall also undertake research and extension services, and provide progressive leadership in its areas of specialization.

UNIVERSITY STRATEGIC GOALS

- a. Deliver quality service to stakeholders to address current and future needs in instruction, research, extension, and production
- b. Observe strict implementation of the laws as well as the policies and regulations of the University
- c. Acquire with urgency state-of-the-art resources for its service areas
- d. Bolster the relationship of the University with its local and international customers and partners
- e. Leverage the qualifications and competences in personnel action and staffing
- f. Evaluate the efficiency and responsiveness of the University systems and processes

PROGRAM OUTCOMES (PO) COMMON TO ALL PROGRAMS AND ITS RELATIONSHIPS TO INSTITUTIONAL OUTCOMES

A graduate of Sultan Kudarat State University can:	INSTITUTIONAL OUTCOMES (IO)						
	a	b	c	d	e	f	g
a. Articulate effectively and independently in multi-disciplinary and multi-cultural teams the latest development in the fields practiced such as Automotive, Architectural Drafting, Civil, Electrical, Electronics, Food and its allied discipline,	✓	✓		✓	✓	✓	✓
b. Lead in the promotion and preservation of Filipino historical and cultural heritage, social empowerment and environmental sustainability in a professional and ethical approach.	✓	✓	✓	✓	✓	✓	✓
c. Generate research-based information and technologies at par from International standards, and	✓	✓	✓	✓	✓	✓	✓
d. Promote and transfer knowledge and technologies for effective and efficient school-industry partnership	✓	✓	✓	✓	✓	✓	✓

1	COURSE CODE	IndTech 111
2	COURSE TITLE	INDUSTRIAL DRAWING
3	PREREQUISITE	None
4	CREDITS	2 units

5 COURSE DESCRIPTION

THIS COURSE DEALS WITH THE STUDY OF INDUSTRIES AND TECHNIQUES INVOLVED IN THE ARTS OF INDUSTRIAL DRAWING AND LETTERING. THE COURSE REVOLVES AROUND THE FREEHAND LINE SKETCHING AND TECHNICAL DRAWING. IT ALSO INTRODUCES THE STYLES OF LETTERS THAT IS USE IN INDUSTRY SPECIFICATIONS AND MODERN LETTERING AND RENDERING IS ALSO INCLUDED. TOOLS THAT EVOLVED FROM THESE BASIC INDUSTRIAL DRAWING IS EMPHASIZE.

6 COURSE LEARNING OUTCOMES (CLO) AND ITS RELATIONSHIPS TO PROGRAM OUTCOMES

Course Learning Outcomes (CLO)	Program Outcomes			
	a	b	c	d
At the end of the course, a student can:				
a. Interpret and produce orthographic projections of objects.	✓	✓	✓	
b. Apply standard dimensioning and annotation techniques.		✓	✓	✓
c. Construct sectional and auxiliary views for clarity.	✓	✓		✓
d. Produce pictorial drawings to represent 3D objects.	✓		✓	
e. Display accuracy and neatness in manual drafting	✓			✓

7 COURSE CONTENTS

WEEK	CONTENT	INTENDED LEARNING OUTCOMES (ILOs)	TEACHING AND LEARNING ACTIVITIES (TLA)	OUTCOMES-BASED ASSESSMENT (OBA)	COURSE LEARNING OUTCOMES (CLOs)
1	Course Orientation SKSU VMGO, Course Overview, Policies	At the end of the Orientation, the Learners can: a. Discuss the University's VMGO, course overview, requirements, and grading system.	a. Interactive lecture, b. Q&A	a. Written quiz, b. oral recitation	
2-3	Introduction to Industrial Drawing (Technical Drawing Tools and Materials)	At the end of the Lesson, the Learners can: a. Identify drafting tools and materials. b. Demonstrate proper use and care of instruments.	c. Demonstration, d. hands-on exploration, e. group discussion	a. Practical test, b. oral recitation	a b c d e
4	Mechanical Drawing (System of Reading Linear Measurements)	At the end of the Lesson, the Learners can: a. Discuss correctly the two system of linear measurements. b. Interpret technical drawing and carryout measurements and calculations.	a. Demonstration b. Brainstorming	a. Quiz b. Oral questioning on reading linear measurements c. Performance test on actual measurements	a,e

5-6	Freehand drawing <ul style="list-style-type: none">• Artist's drawing• Technical men & industrial workers	At the end of the Lesson, the Learners can: <ul style="list-style-type: none">a. Explain the technique behind a famous artist.b. Illustrate and show proper sketching.	<ul style="list-style-type: none">a. Project makingb. Actual performancec. Peer teachingd. Plate making	<ul style="list-style-type: none">a. Assignmentb. Quizc. Performance test on freehand drawing	e
7	Midterm Examination				
8	Lettering <ul style="list-style-type: none">• Gothic• Roman• Script• Text	At the end of the Lesson, the Learners can: <ul style="list-style-type: none">a. Discuss the history and development of lettering.b. Develop skills of good practice in lettering of different styles of letter.	<ul style="list-style-type: none">a. Plate/project making of the different types of lettersb. Actual performancec. Peer teaching	<ul style="list-style-type: none">a. Performance test on the types of lettersb. Quizc. Plate/Activity making	b e
9	Alphabet of Lines	At the end of the Lesson, the Learners can: <ul style="list-style-type: none">a. Discuss the importance of alphabet of lines.b. Draw the symbols at various grades and thicknesses.	<ul style="list-style-type: none">a. Demonstrationb. Lecturec. Demonstration Teachingd. Plate making on the diff. alphabet of lines	<ul style="list-style-type: none">a. Performance test on drawing alphabet of lines symbols	b e
10-11	Machine parts/Blocks drafting <ul style="list-style-type: none">• Multi-view and Pictorial drawing• Principles of sketching orthographic• Steps in sketching orthographic view	At the end of the Lesson, the Learners can: <ul style="list-style-type: none">a. Discuss multi-view and pictorial drawing.b. Discuss the principles of orthographic drawing.c. Illustrate the steps in orthographic drawing.	<ul style="list-style-type: none">a. Lectureb. Problem solvingc. Plate making/portfolio	<ul style="list-style-type: none">a. Quizb. Performance test,c. Plate/Activity making on orthographic, isometric & oblique drawing	a c e
12	Dimensioning and Scaling	At the end of the Lesson, the Learners can: <ul style="list-style-type: none">a. Explain the importance of dimensioning.b. Draw properly the dimension line	<ul style="list-style-type: none">a. Lectureb. Demonstration Teaching	<ul style="list-style-type: none">a. Performance test,b. Quiz	b d e
13	Geometrical Construction	At the end of the Lesson, the Learners can: <ul style="list-style-type: none">a. Discuss the methods used in constructing an Ellipse.b. Draw geometrical construction at the same time solving problems by the aid of drafting tools/instruments	<ul style="list-style-type: none">a. Practical demonstration on construction of the diff. types of Ellipseb. Actual performancec. Problem solving	<ul style="list-style-type: none">a. Quizb. Performance testc. Plate/Activity	a b c d e

14-15	Pictorial drawing	At the end of the Lesson, the Learners can:	a. Project work, b. Presentation c. Peer and instructor feedback	a. Quiz b. Performance test c. Plate/Activity making on perspective drawing.	abcde
16	FINAL EXAMINATION				

Total No. of Hours: 120

8 COURSE REQUIREMENTS AND COURSE POLICIES

COURSE REQUIREMENTS

Each student is required to:

1. Regularly attend and participate in class discussions and activities.
2. Complete all of assigned Working drawing exercises and projects.
3. Pass the major exams (midterm and final).
4. Adhere to drafting standards and conventions.

COURSE POLICIES

Attendance: A student will be marked late if he/she enters the class 5 minutes after start of class period. Any student who comes to class 15 minutes after the scheduled time or always lat for three consecutive meetings shall be marked absent.

Missed work or exam: Any student who missed to submit a work assignment or to take a test should consult the concerned instructor for immediate compliance

Cheating and Plagiarism: Any student who committed any form of academic dishonesty (e.g., copy-paste plagiarism) shall be given disciplinary action provided in the SKSU Student Handbook

Use of Technology: Cell phones should be turned off while the session is in progress. Using laptops, notebook PCs, smart phones, and tablets shall be allowed only when needed.

9 GRADING SYSTEM AND RUBRICS FOR GRADING

GRADING SYSTEM

Midterm Grade

Plates	45%
Examination	35%
Attendance/ Class Participation	15%
Quizzes	10%
TOTAL	100%

Final Grade

Plates	45%
Examination	35%
Attendance/ Class Participation	15%
Quizzes	10%
TOTAL	100%

RUBRICS FOR WORKING DRAWING ASSIGNMENTS

Criteria	Excellent (4 points)	Good (3 points)	Fair (2 points)	Poor (1 point)
Accuracy & Code Compliance	All structural elements are accurately represented and comply fully with relevant building codes and standards. Dimensions and specifications are precise and error-free.	Most structural elements are accurately represented with minor deviations from codes and standards. Dimensions are generally accurate.	Some structural elements are inaccurately represented, with noticeable deviations from codes. Dimensions contain several errors.	Many structural elements are misrepresented and do not comply with codes. Dimensions are largely inaccurate.
Completeness	Drawing set includes all necessary plans, elevations, sections, and details required for construction. All components are clearly labeled and specified.	Drawing set is mostly complete but may be missing some minor details or components. Most elements are labeled.	Drawing set is incomplete, missing significant plans, sections, or details. Labeling is inconsistent.	Drawing set is severely incomplete, lacking essential information required for construction. Labeling is minimal or absent.
Clarity & Readability	Drawings are exceptionally clear, well-organized, and easy to read. Line weights, text sizes, and symbols are used effectively to communicate information.	Drawings are generally clear and readable with good organization. Minor improvements could enhance clarity.	Drawings are somewhat difficult to read due to poor organization, inconsistent line weights, or illegible text.	Drawings are very difficult to read and interpret due to disorganization, poor line quality, and illegible text.

10 REFERENCES

- Grabowski, Ralph, (2010) Using AutoCAD Delmar Cengage learning, 5 Maxwell Drive Clifton Park, NY 12065 USA
Ramsey, S. (2008) Architectural Graphics standards, John Willy & Sons, Inc., New York.
Andes A S, Jr., & Andes, A. M. Sr., (2005). Simple Corel Draw, ISBN 971-92311-0-6
Manaois, German M. A., (2001) Drafting Volume 2, Phoenix Publishing House Inc., 937 Quezon City.

Internet Sources:

1. <http://scholar.lib.vt.edu/ejournals/JITE/v35n4/mackenzie.html>
2. <http://www.informatics.sussex.ac.uk/courses/ModDis/Internal/Ullman.pdf>

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