Surigao City Campus

Bachelor of Science in Electrical Engineering

SURIGAO STATE COLLEGE OF TECHNOLOGY

SSCT

"For Nation's Greater Heights"

S.2.2. based on well-designed Table of Specifications (TOS).

| Document Code No. | FM-SSCT-ACAD-003 |
|---|---|
| Revision No. | 00 |
| Effective Date | 20 September 2018 |
| Page No. | 1 of 1 |

# SURIGAO STATE COLLEGE OF TECHNOLOGY

"For Nation's Greater Heights"

## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

## TABLE OF SPECIFICATION

### FINAL

First Sem., A.Y. 2019-2020

**EE 101 - CIRCUITS 1**

| Topics | Time Frame (hr) | Weight Percentage | Item Number | | | | | | Total No. of Items |
|---|---|---|---|---|---|---|---|---|---|
| | | | Remembering 0% | Understanding 0% | Applying 22% | Analyzing 67% | Evaluating 11% | Creating 0% | |
| 1. FUNDAMENTALS OF INDUCTORS AND CAPACITORS | 8 | 32% | | | 8 | 4, 5 | | | 3 |
| 2. ANALYSIS OF FIRST ORDER DYNAMIC CIRCUITS WITH DC EXCITATION | 8 | 32% | | | | 1, 2 | 7 | | 3 |
| 3. ANALYSIS OF SECOND ORDER DYNAMIC CIRCUITS WITH DC EXCITATION | 9 | 36% | | | 9 | 3, 6 | | | 3 |
| | | | | | | | | | |
| | | | | | | | | | |
| ***Total*** | 25 | 100% | 0 | 0 | 2 | 6 | 1 | 0 | 9 |

Prepared by:

**VERNON V. LIZA**
Guest Lecturer

Date: Oct. 4, 2019

Checked by:

**ENGR. JOSELITO S. BALDAPAN, PEE**
Program Chair

Date: Oct. 4, 2019

Approved by:

**ENGR. ROBERT R. BACARRO, MECE, MBA**
Dean

Date: Oct. 4, 2019

*To compute the weight percentage per topic: Divide the number of hours by the total hours times 100.*
*To determine the number of items per topic: Multiply the corresponding weight by the total number of items. (Items should be distributed to the different levels)*

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|---|---|
| Revision No. | 00 |
| Effective Date | 20 September 2018 |
| Page No. | 1 of 1 |

# SURIGAO STATE COLLEGE OF TECHNOLOGY

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## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

## TABLE OF SPECIFICATION

### MIDTERM

First Sem., A.Y. 2019-2020

**EE 101 - CIRCUITS 1**

| Topics | Time Frame (hr) | Weight Percentage | Item Number | | | | | | Total No. of Items |
|---|---|---|---|---|---|---|---|---|---|
| | | | Remembering 0% | Understanding 0% | Applying 27% | Analyzing 71% | Evaluating 0% | Creating 0% | |
| 1. BASIC ELECTRICAL QUANTITIES SYSTEM OF UNITS; CIRCUIT COMPONENTS | 3 | 13% | | | | 5 | | | 1 |
| 2. OHM'S LAW AND KIRCHOFF'S LAW | 4 | 17% | | | | 9, 11 | | | 2 |
| 3. ANALYSIS OF SERIES, PARALLEL, SERIES-PARALLEL CIRCUITS | 4 | 17% | | | 7 | 1 | | | 2 |
| 4. APPLICATION OF RESISTIVE CIRCUITS | 4 | 17% | | | 8, 10 | | | | 2 |
| 5. ANALYSIS OF RESISTIVE CIRCUITS WITH CONTROLLED SOURCES | 4 | 17% | | | | 2, 3 | | | 2 |
| 6. CIRCUIT ANALYSIS TECHNIQUES AND NETWORK THEOREMS | 5 | 21% | | | | 4, 6 | | | 2 |
| | | | | | | | | | |
| ***Total*** | 24 | 100% | 0 | 0 | 3 | 8 | 0 | 0 | 11 |

Prepared by:

**VERNON V. LIZA**
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Date: Oct. 4, 2019

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**ENGR. JOSELITO S. BALDAPAN, PEE**
Program Chair

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**ENGR. ROBERT R. BACARRO, MECE, MBA**
Dean

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| Document Code No. | FM-SSCT-ACAD-003 |
|---|---|
| Revision No. | 00 |
| Effective Date | 20 September 2018 |
| Page No. | 1 of 1 |

**SURIGAO STATE COLLEGE OF TECHNOLOGY**

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## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

# TABLE OF SPECIFICATION

## FINAL

First Sem., A.Y. 2021-2022

**MATH 113 - DIFFERENTIAL EQUATIONS**

| Topics | Time Frame (hr) | Weight Percentage | Item Number | | | | | | Total No. of Items |
|---|---|---|---|---|---|---|---|---|---|
| | | | Remembering 0% | Understanding 7% | Applying 0% | Analyzing 7% | Evaluating 86% | Creating 0% | |
| 1.LINEAR DIFFERENTIAL EQUATION OF ORDER n | 5.5 | 27% | | 1 | | | 2,3,4 | | 4 |
| 2. HOMOGENEOUS LINEAR D.E. WITH CONSTANT COEFFICIENTS | 3 | 15% | | | | | 5, 6 | | 2 |
| 3. NON-HOMOGENEOUS LINEAR D.E. WITH CONSTANT COEFFICIENTS | 4 | 20% | | | | | 8, 9, 10 | | 3 |
| 4. LAPLACE TRANSFORMS OF FUNCTIONS | 8 | 39% | | | | 15 | 7, 11, 12, 13, 14 | | 6 |
| | | | | | | | | | |
| | | | | | | | | | |
| ***Total*** | 20.5 | 100% | 0 | 1 | 0 | 1 | 13 | 0 | 15 |

Prepared by:

**ENGR. VERNON V. LIZA**
Guest Lecturer

Date: 1-4-2022

Checked by:

**ENGR. VICENTE Z. DELANTE, MEng'g**
Program Chair

Date: 1-5-2022

Approved by:

**ENGR. ROBERT R. BACARRO, MECE, MBA**
Dean

Date: 1-5-2022

*To compute the weight percentage per topic: Divide the number of hours by the total hours times 100.*
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SURIGAO STATE COLLEGE OF TECHNOLOGY

"For Nation's Greater Heights"

| Document Code No. | FM-SSCT-ACAD-003 |
|---|---|
| Revision No. | 00 |
| Effective Date | 20 September 2018 |
| Page No. | 1 of 1 |

## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

# TABLE OF SPECIFICATION

## MIDTERM

Second Sem., A.Y. 2020-2021

**EE 304 - Electrical Apparatus and Devices**

| Topics | Time Frame (hr) | Weight Percentage | Item Number | | | | | | Total No. of Items |
|---|---|---|---|---|---|---|---|---|---|
| | | | Remembering 35% | Understanding 38% | Applying 0% | Analyzing 0% | Evaluating 27% | Creating 0% | |
| 1. Transformer Fundamentals | 6 | 40% | 18,25,26,42 | 12,14,19,37,43,44,52 | | | 4,5,10,13,20,31,35,39,41,54,55 | | 22 |
| 2. Transformer Connections | 5 | 33% | 11,22,23,33,34,36,49 | 2,7,8,9,30,50 | | | 45,46,47,51 | | 18 |
| 3. Various Types of Transformers and Their Applications | 4 | 27% | 15,16,17,27,29,32,38,40 | 1,3,6,21,24,28,48,53 | | | | | 15 |
| | | | | | | | | | |
| ***Total*** | 15 | 100% | 19 | 21 | 0 | 0 | 15 | 0 | 55 |

Prepared by:

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Date: 3-28-2022

Checked by:

**ENGR. VICENTE DELANTE, MEng'g**
Program Chair

Date: 3-29-2022

Approved by:

**ENGR. ROBERT R. BACARRO, MECE, MBA**
Dean

Date: 3-29-2022

*To compute the weight percentage per topic: Divide the number of hours by the total hours times 100.*
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**SURIGAO STATE COLLEGE OF TECHNOLOGY**

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## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

# TABLE OF SPECIFICATION

**FINAL**

First Sem., A.Y. 2021-2022

**Math 114 - Engineering Data Analysis**

| Topics | Time Frame (hr) | Weight Percentage | Item Number | | | | | | Total No. of Items |
|---|---|---|---|---|---|---|---|---|---|
| | | | Remembering 48% | Understanding 0% | Applying 24% | Analyzing 12% | Evaluating 16% | Creating 0% | |
| 1. Point Estimation of Parameters and Sampling Distributions | 4 | 16% | 1, 2, 3 | | 4 | | | | 4 |
| 2. Statistical Intervals for a Single Sample | 5 | 20% | 5 | | | 8, 9 | 6, 7 | | 5 |
| 3. Tests of Hypotheses for a Single Sample | 6 | 24% | 10, 11, 12, 13 | | 15 | 14 | | | 6 |
| 4. Statistical Inference of Two Samples | 5 | 20% | 16, 17 | | 18 | | 19, 20 | | 5 |
| 5. Simple Linear Regression and Correlation | 5 | 20% | 21, 22 | | 23, 24, 25 | | | | 5 |
| | | | | | | | | | |
| ***Total*** | 25 | 100% | 12 | 0 | 6 | 3 | 4 | 0 | 25 |

Prepared by:

**ENGR. MARK MARVIN D. PAGLINAWAN**
Guest Lecturer

Date: 1-5-2022

Checked by:

**ENGR. VICENTE DELANTE, MEng'g**
Program Chair

Date: 1-6-2022

Approved by:

**ENGR. ROBERT R. BACARRO, MECE, MBA**
Dean

Date: 1-6-2022

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| Document Code No. | FM-SSCT-ACAD-003 |
|---|---|
| Revision No. | 00 |
| Effective Date | 20 September 2018 |
| Page No. | 1 of 1 |

## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

# TABLE OF SPECIFICATION

## MIDTERM

First Sem., A.Y. 2021-2022

**Math 114 - Engineering Data Analysis**

| Topics | Time Frame (hr) | Weight Percentage | Item Number | | | | | | Total No. of Items |
|---|---|---|---|---|---|---|---|---|---|
| | | | Remembering 50% | Understanding 0% | Applying 7% | Analyzing 23% | Evaluating 20% | Creating 0% | |
| 1. Obtaining Data | 3 | 13% | 1, 2, 3, 4 | | | | | | 4 |
| 2. Probability | 5 | 21% | 5, 6, 7 | | 18 | 16, 17 | | | 6 |
| 3. Discrete Random Variables and Probability Distributions | 6 | 25% | 8, 9, 10, 11 | | 19 | 20, 21, 22 | | | 8 |
| 4. Continuous Random Variables and Probability Distributions | 5 | 21% | 12, 13 | | | 26 | 23, 24, 25 | | 6 |
| 5. Joint Probability Distributions | 5 | 21% | 14, 15 | | | 30 | 27, 28, 29 | | 6 |
| | | | | | | | | | |
| ***Total*** | 24 | 100% | 15 | 0 | 2 | 7 | 6 | 0 | 30 |

Prepared by:

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Date: 1-5-2022

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Date: 1-6-2022

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Dean

Date: 1-6-2022

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| | |
|---|---|
| Document Code No. | FM-SSCT-ACAD-003 |
| Revision No. | 00 |
| Effective Date | 20 September 2018 |
| Page No. | 1 of 1 |

## COLLEGE OF ENGINEERING AND INFORMATION TECHNOLOGY

# TABLE OF SPECIFICATION

## FINAL

First Sem., A.Y. 2021-2022

**ES 135 - DYNAMICS OF RIGID BODIES**

| Topics | Time Frame (hr) | Weight Percentage | Item Number | | | | | | Total No. of Items |
|---|---|---|---|---|---|---|---|---|---|
| | | | Remembering 20% | Understanding 20% | Applying 0% | Analyzing 40% | Evaluating 20% | Creating 0% | |
| 1. Planar Kinematics of Rigid Bodies | 5 | 31% | | 3, 4, 5 | | 1, 2, 6 | | | 6 |
| 2. Planar Kinetics of a Rigid Body: Forces and Acceleration | 5 | 31% | 7, 10 | | | 11, 12 | 8, 9 | | 6 |
| 3. Planar Kinetics of a Rigid Body: Energy and Momentum Methods | 6 | 38% | 18, 19 | 20 | | 15, 16, 17 | 13, 14 | | 8 |
| | | | | | | | | | |
| | | | | | | | | | |
| ***Total*** | 16 | 100% | 4 | 4 | 0 | 8 | 4 | 0 | 20 |

Prepared by:

**ENGR. MARK MARVIN D. PAGLINAWAN**
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Date: 1-4-2022

Checked by:

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Program Chair

Date: 1-5-2022

Approved by:

**ENGR. ROBERT R. BACARRO, MECE, MBA**
Dean

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