

**RIT CROATIA PROGRAM DELIVERY PLAN FOR ACADEMIC YEAR 2026/2027 –
INITIAL ACCREDITATION**

PROGRAM TITLE: CYBERSECURITY

TYPE OF PROGRAM: Undergraduate professional program

LOCATION: Zagreb

FALL SEMESTER DATES: September 1st – December 18th

FALL SEMESTER FINALS: December 10th – 16th

SPRING SEMESTER DATES: January 18th – May 14th

SPRING SEMESTER FINALS: May 6th – 12th

LANGUAGE: English

T U E				Beginning Italian I - MLT-201 (Friganovic Sain) Joint Dek online OS		Culture and Globalization ANTH-210 (Bazzani) online OS		online	online	online	online	
		Critical Thinking -1 WMC PHIL-103 (Bazzani) online OS		Critical Thinking -1 WMCNMD PHIL-103 (Bazzani) online OS								
			Business Ethics-3 MGMT-340 (Kuznin) online OS	Business Ethics-4 MGMT-340 (Kuznin) online OS								
		Financial Management -1 FINC-220 (Condic-Jurkic) Lab 3	Financial Management -2 FINC-220 (Condic-Jurkic) Lab 3	Operations Management-3 DECS-310 (Seric) Lab 3	Operations Management-4 DECS-310 (Seric) Lab 3	Intro to Statistics I-2 STAT-145 (Tabak) Lab 3	Intro to Statistics I-4 STAT-145 (TBD) Lab 3	Lab 3		Lab 3	Lab 3	
	Room 1		Intro to Photography -1 PHAR-100 (Anic) LAB Room 1		Intro to Photography -2 PHAR-100 (Anic) LAB Room 1							
	Room 6	Intro to Psychology -3 PSYC-101 (Varnak Zalkovic) Room 6 mind and GBM	Discrete Math MATH-131 (Tabak) Room 6	Project Based Calculus MATH-181 (Tabak) Room 6	Intro to Psychology -4 PSYC-101 (Tadic Vajic) Room 6 WMC AND GBM	Intro to Psychology -2 PSYC-101 (Tabak) Room 6-gbm/trend juniors		Room 1		Room 1	Room 1	
		Intro to Acad English ELCA-42 (Mason S) CSEC GBM/WMC/NMD/CSE Room 7	Critical Ring and Writing-3 UWRT-100 (Mason S) CSEC Room 7	Survey: Renaissance to Modern Art ARTH-135 (Kamber) Room 7	NMD Capsstone I NMDE-491 (Klemencic) joint LEC Room 7	NMD Digital Survey I -1+2 NMDE-111 (Klemencic) LEC joint Room 7		Room 7		Room 7	Room 7	
	Room 9 Lab		NMD Elements II -1 NMDE-201 (Jelencic) LAB Lab 9		NMD Graphical User Interface-1 NMDE-302 (Galic) LAB Lab 9				Lab 9		Mobile Application Development I ISTE-454 (Cresnik) Lab 9	Lab 9
	Room 10	Literature and Cultural Studies -2 ENGL-210 (Mason E.) Room 10 NMD SENIORS	Financ Accounting-3 ACCT-110 (Schmidt) Room 10	Financ Accounting-4 ACCT-110 (Schmidt) Room 10	20th Century Art ARTH-369 (Kamber) Room 10	College Algebra -1+2 MATH-101 (TBD) Room 10				MS OLI CLASSES Room 10		Room 10
		Lab 12		Lab 12	Lab 12	Lab 12			Lab 12		Lab 12	Lab 12
	Contemporary Databases ISTE-438 (Mihajevic) Lab 46	App Data Struc and Algor ISTE-222 (Mihajevic) Lab 46	Foundations of Wear and Ubi Computing ISTE-358 (Musk) Lab 46	AI and Contemporary Comp. NSSA-102 (Musa)WMC Lab 46	Server Programming -2 ISTE-441 (Mihajevic) Lab 46		Lab 46	Lab 46	Lab 46	Lab 46	Lab 46	
		2D Design I -1 FDTN-121 (Miller) Room 35			2D Design I -2 FDTN-121 (Miller) Room 35			Room 35		Room 35	Room 35	
	HR Management -1 HRDE-380 (Vidovic) Room 36	HR Management -2 HRDE-380 (Vidovic) Room 36	HR Management -3 HRDE-380 (Vidovic) Room 36	Consumer Behavior MKTG-350 (Anic) Room 36		Business Ethics-2 MGMT-340 (Vigi) Room 36		Room 35	Room 35	Critical Ring and Writing-5 UWRT-100 (Bukovic) Room 36	Room 35	
		Principles of Marketing-3 MKTG-230 (Anicic) Room 45	Princ of Microeconomics-3 ECON-101 (Samardzija) Room 45	Princ of Microeconomics-4 ECON-101 (Samardzija) Room 45		Business I -3 MGMT-101 (Barbic) Room 45	Business I -4 MGMT-101 (Barbic) Room 45				Room 45	
	VC Room VC Room 5	Seminar in Management MGMT-459 (Samardzija) Room 5	Principles of Marketing-4 MKTG-230 (Anicic) Room 5	Global Bus Environ -3 INTB-226 (Rand) Room 5	RT 385 -3 YOPS-10 GBM/Oladic/VC Room 5	Intermediate French MLFR-301 (Kovacevic) joint Room 5	Beginning French I -1 MLFR-201 (Kovacevic) joint Room 5				VC Room 5	

T H U	Intermediate Spanish I - 1 MLSP - 301 (Peric) online OS	Business Ethics - 3 MGMT-340 (Kuzmin) online OS		Business Ethics - 4 MGMT-340 (Kuzmin) online OS		online	online	online	online	online	
	Intermediate German - 1 MLGR - 301 (Bosznovi) online OS										
	Financial Management - 1 FINC-220 (Condo-Jurkic) Lab 3	Financial Management - 2 FINC-220 (Condo-Jurkic) Lab 3	Operations Management - 3 DECS-310 (Soric) Lab 3	Operations Management - 4 DECS-310 (Soric) Lab 3	App Development Practices ISTE-422 (Marasovic) Lab 3	Lab 3	Lab 3	Lab 3	Lab 3	Lab 3	
	Seminar in Management Generative AI MGMT-459 (Samardzija) Room 1		Princ of Microeconomics - 3 ECON-101 (Samardzija) Room 1	Princ of Microeconomics - 4 ECON-101 (Samardzija) Room 1	Business I - 1 MGMT-101(BEKIC) Room 1	Business I - 2 MGMT-101(BEKIC) Room 1	MS OLI CLASSES ROOM 1			Room 1	
	Room 1	Culture Class (Mison E.) Room 6	Discrete Math MATH-131 (Tabak) Room 5	Project Based Calculus MATH-131 (Tabak) Room 5							
	Room 6	Critical Rng and Writing-3 UWRT-100 (Mison S) CSEC Room 7		Writing Seminar UWRT-100 (Mison E.) Room 7	Intro to Psychology - 4 PSYC-101 (Tadic Vujic) Room 6 WMC AND GBM	Info Systems and Technology- 1 MGIS-130 (Bara) Room 7	Info Systems and Technology- 2 MGIS-130 (Bara) Room 7	Room 6	Room 6	Room 6	
	Room 7		Room 7					Room 7		Room 7	
	Lab 9	NMD Digital Survey I - 1 NMDE-111 (Klemencic) LAB Lab 9		Lab 9	NMD Digital Survey I - 3 NMDE-111 (Klemencic) LAB Lab 9		NMD Motion Graphics - 1 NMDE-305 (Svaner) LAB Lab 9		NMD 3D - 1 NMDE-202 (Blazevic) LAB Lab 9		Lab 9
	Room 10	Literature and Cultural Studies - 2 ENGL-210 (Mison E.) Room 10 NMD SENIORS	Financ Accounting- 3 ACCT-110 (Schmidt) Room 10	Financ Accounting- 4 ACCT-110 (Schmidt) Room 10	Room 10	College Algebra - 4 MATH-101 (TED) Room 10	Critical Rng and Writing-5 UWRT-100 (TED) Room 10	Room 10	Room 10	Room 10	
	Contemporary Databases ISTE-438 (Mihaljevic) Lab 46	Web and Mobile I ISTE-140 (Mihaljevic) Lab 46	Foundations of Wear and Ubi Computing ISTE-355 (Marka) Lab 46	AI and Contemporary Comp. NSSA-102 (Muka)WMC Lab 46	App Data Struc and Algor ISTE-222 (Mihaljevic) Lab 46	Lab 46	Lab 46	Lab 46	Lab 46	Lab 46	
Room 35	2D Design I - 1 FDTN-121 (Miller) Room 35		2D Design I - 2 FDTN-121 (Miller) Room 35			Room 35	Room 35	Room 35	Room 35	Room 35	
	HR Management - 1 HROE-380 (Vidovic) Room 36	HR Management - 2 HROE-380 (Vidovic) Room 36	HR Management - 2 HROE-380 (Vidovic) Room 36	Consumer Behavior MKTG-300 (Antonic) Room 36	Room 36	Business Ethics - 2 MGMT-340 (Vig) Room 36	Room 36	Room 36	Room 36	Room 36	
Room 45	Principles of Marketing-3 MKTG-230 (Antonic) Room 45		Principles of Marketing-4 MKTG-230 (Antonic) Room 45	Global Bus Environ - 3 INTB-225 (Rand) Room 45	Careers in Bs-4 SCB-350 (Serevoz) Room 45	Room 45	Business I - 3 MGMT-101 (Barbic) Room 45	Business I - 4 MGMT-101 (Barbic) Room 45	Room 45	Room 45	
VC Room 5	RIT 365 - 5 YOPS-10 NMD/turkovic/VC Room 5		Senior Development Project ISTE-500 (Zagar) Room 5		Advertising and Prom Mgmt MKTG-370 (Carew) Room 5	Scientific Iq in Environ Sci-3 ENVIS-151 (Stambuk) Room 5	VC Room 5	VC Room 5	VC Room 5	VC Room 5	

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2. LIST OF COURSES WITH ASSIGNED CREDITS (class and credit hours) and ECTS POINTS PER SEMESTER/YEAR LEVEL

YEAR 1

	FALL 1					
Course no.	Name	Class Hours	Lab hours	Credit Hours	ECTS	Instructor
CSEC-140	Introduction to Cybersecurity	3	0	0	5	Branko Mihaljević
GCIS - 123	Software Development and Problem Solving I	4	2	4	6	Alan Mutka
MATH-181	Project-Based Calculus I	2	2	0	6	Kristijan Tabak
PSYC-101	Introduction to Psychology	2	0	1	5	Maja Vurnek Živković
UWRT-100	Critical Reading and Writing	3	0	0	5	Sara Miščin

	SPRING 1					
Course no.	Name	Class Hours	Lab hours	Credit Hours	ECTS	Instructor
GCIS - 124	Software Development and Problem Solving II	4	2	4	6	Alan Mutka
NSSA-241	Introduction to Routing and Switching	3	0	0	5	Mladen Jurković
MATH-182	Project-Based Calculus II	2	0	2	5	Kristijan Tabak
MATH-190	Discrete Mathematics for Computing	1	1	1	5	Kristijan Tabak
UWRT - 150	Writing Seminar	3	0	0	5	Rebecca Charry Roje

* Throughout the course of their studies at RIT Croatia, students will participate in a number of activities, seminars, and workshops (RIT 365, Careers in Business, Second Year Seminar....) that will prepare them for all aspects of their college journey at RIT Croatia and contribute to their overall career development.

YEAR 1 – COURSE DESCRIPTIONS

General Information

Course title:	Software Development and Problem Solving I
Course leader:	Alan Mutka
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	6
Teaching hours (L+S+E):	90 (4+0+2)

Course Description

Course objectives:

- Learn to program in a selected, contemporary, high-level programming language (Python).
- Describe and apply problem-solving skills, algorithms, and data structures that are appropriate to solve a variety of computing problems of varying degrees of complexity.
- Describe and apply fundamental concepts of software engineering including understanding needs, software design, solution testing, and incremental development.

Conditions for enrolment in the course:

None

Expected learning outcomes of the course:

A student will be able to:

CLO1: Use basic programming language constructs in developing a solution

CLO2: Build solutions to computing problems by utilizing algorithms and data structures

CLO3: Apply software engineering concepts, including understanding needs, software design, and solution testing

Course content:

- Statements, expressions, variables, standard output/input
- Types, variables, functions, parameters, arguments
- Arrays, Boolean expressions, conditionals, iteration
- File I/O, raising exceptions, exception handling
- Basic string parsing, regular expressions
- Arrays, recursion, searching, sorting
- Classes, objects, constructors, fields, methods

Teaching delivery methods:

- Lectures
- Independent work
- Laboratory
- Mentorski rad
- Peer review

Student obligations:

- Attending classes
- Submitting assignments
- Participate in discussions

Monitoring student work:

Activity	ECTS
Quizzes	0.3
Class Activities	0.6
Problem Solving	0.6
Assignments	1.5
Practica	1.8
Final Exam	1.2
Total	6

Teaching time is worth 2 ECTS points and it has been incorporated in time for assignments.

Assessment and evaluation of student work

Components of evaluation:

Component	Points/%
Quizzes	5
Class Activities	10
Problem Solving	10
Assignments	25
Practica	30
Final Exam	20
Total:	100

Required reading:

- Lutz, M. (2013). Learning Python. Beijing: O'Reilly. ISBN: 978-1-4493-5573-9

Additional reading:

- Hunt, A., Thomas, D. (2000). The Pragmatic programmer : from journeyman to master. Boston [etc.]: Addison-Wesley. ISBN: 020161622X 9780201616224

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes

General Information

Course title:	Introduction to Cybersecurity
Course leader:	Branko Mihaljević
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	5
Teaching hours (L+S+E):	45 (30+0+15)

Course Description

This course introduces fundamental cybersecurity concepts. The course teaches students to think about information systems with an adversarial mindset, evaluate risk to information systems, and introduce controls that can be implemented to reduce that risk. Topics will include authentication systems, data security and encryption, risk management and security regulatory frameworks, networking and system security, application security, organizational and human security considerations, and societal implications of cybersecurity issues. These topics will be discussed at an introductory level with a focus on applied learning through hands-on virtual lab exercises. Students will also be introduced to traditional and generative AI tools used in professional practice for threat analysis, security automation, and defensive tooling.

Course objectives:

- Understand fundamental cybersecurity concepts and develop an adversarial mindset to evaluate risks to information systems.
- Analyze and implement controls to reduce risks in information systems, including authentication, data security, and encryption.
- Explore risk management strategies, security regulatory frameworks, and their application to protect information systems.
- Examine networking, system security, and application security principles through practical, hands-on virtual lab exercises.
- Assess organizational, human, and societal implications of cybersecurity, including ethical considerations and security impacts.

Conditions for enrolment in the course:

None

Expected learning outcomes of the course:

A student will be able to:

- L01:** Evaluate cybersecurity concepts application in an information system to assess security risks and recommend security improvements.
 - L02:** Analyze application of cryptographic principles for authentication and encryption to ensure confidentiality and integrity of sensitive data at rest and in transit.
 - L03:** Assess non-technical cybersecurity challenges that could impact the security of an organization or system.
 - L04:** Debate ethical considerations in cybersecurity and their impact on the security of society.
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Course content:

- First Principles in Cybersecurity
 - Confidentiality, Integrity, and Availability
 - Threats, Vulnerabilities, and Types of Attacks
 - Basic concepts in threat modeling
 - Classes of Security Controls
 - Defense in Depth
- Identification and Authentication
 - Identification mechanisms
 - Authentication mechanisms
 - Multi-factor authentication
 - Mutual authentication
 - Single-sign on
- Authorization, Access Control, and Accountability
 - Users and groups
 - User account management
 - Access control models (DAC, MAC, role-based, rule-based)
 - Principle of least privilege
 - Separation of duties
 - Non-repudiation
 - Monitoring, logging, and auditing
- Data Security and Basic Cryptography
 - Symmetric and asymmetric cryptography
 - Data integrity
 - Public key infrastructure and trust anchors
 - Cryptography in authentication protocols
 - High-level overview of cryptographic standards (e.g. FIPS)
 - High-level discussion of cryptographic attacks
- Security Risk Analysis
 - Formal definition of risk
 - Risk mitigation strategies
 - High-level risk assessment procedures

- Common risk management frameworks
- Compliance, Laws, Regulation
 - Types of compliance and liability
 - Overview of common compliance frameworks
 - Legal issues in information security
 - Privacy and privacy laws
- Networking and Network Security
 - TCP/IP and OSI Models
 - Basic networking equipment and functionality
 - Packet captures and traffic analysis
 - Network firewalls
 - Network address translation, segmentation, and isolation as security controls
 - Broad classes of adversarial behavior and network monitoring
 - Basic wireless security concepts
- System Security
 - Virtualization and system isolation
 - Minimizing system software and attack surfaces
 - Types of malware and their effects on systems
 - Intrusion detection software and techniques
- Software Security
 - Software bugs and vulnerabilities
 - Security requirements analysis
 - Secure software lifecycle
- Organizational and Human Security
 - Elements of cybersecurity programs such as change, patch, and vulnerability management
 - Incident response
 - Backup and recovery procedures
 - Security impacts on business processes
 - Social engineering and open source intelligence
- Security, Ethics, and Society
 - Ethical issues in Cybersecurity
 - Cybersecurity issues and foreign policy
 - Cybersecurity issues and national security
 - Cybersecurity issues and critical infrastructure

Teaching delivery methods:

- Lectures
- Exercises
- Independent work
- Group project

Student obligations:

- Attending classes
- Submitting assignments

- Participate in class activities

Monitoring student work:

Activity	ECTS
Quizzes	0.75
Assignments	1.75
Class Activities	0.75
Exams	1.75
Total	5

Teaching time is worth 1.5 ECTS points and it has been incorporated in time for assignments/projects and other activities.

Assessment and evaluation of student work

Components of evaluation:

Component	Points/%
Quizzes	15
Assignments	35
Class Activities	15
Exams	35
Total:	100

Required reading:

- Andress, J. (2019). Foundations of information security: A straightforward introduction. No Starch Press.
- Aumasson, J.-P. (2017). Serious cryptography: A practical introduction to modern encryption. No Starch Press.

Additional reading:

- Bishop, M. (2019). Computer Security Art and Science, 2nd Ed. Addison-Wesley Professional.
- Stallings, W. (2023). Cryptography and Network Security Principles and Practice, 8th Edition. Pearson.

- Oakley, J. G., Butler, M., York, W., Puckett, M., & Sewell, J. L. (2022). Theoretical cybersecurity: Principles and advanced concepts (1st ed.). Apress.
- Gupta, C. P., Goyal, K. K. (2020). Cybersecurity: A self-teaching introduction. Mercury Learning and Information.

Number of copies of required reading in relation to the number of students who currently attend a course:

Materials available at RIT online library The Wallace Center.

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes

General Information

Course title:	Project-Based Calculus I
Course leader:	Kristina Šorić
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	5
Teaching hours (L+S+E):	60 (2+0+2)

Course Description

Course objectives:

- To have students exhibit skill in, and knowledge and comprehension of a breadth of mathematical topics.
- To have students use analytical methods and computational tools to solve mathematical problems.
- To have students explain mathematical ideas and arguments in both presentations and writing.

Conditions for enrolment in the course:

None

Expected learning outcomes of the course:

A student will be able to:

L01: Analyze functions, continuity, limit, derivative and integral

L02: Analyze mathematical concepts for modeling and solving problems from real world environment

L03: Evaluate functions, derivatives and definite integrals

L04: Formulate mathematical equations from verbal descriptions in applications

Course content:

1 REVIEW OF FUNCTIONS AND THEIR GRAPHS

- 1.1 Algebra of functions, including shifting and scaling, and composition
- 1.2 Exponential functions, and hyperbolic trigonometric functions
- 1.3 Trigonometric functions
- 1.4 Inverse functions (incl. logarithms and inverse trigonometric functions)

2 LIMITS

- 2.1 Rates of change and tangent lines
- 2.2 Properties of limits
- 2.3 One-sided limits
- 2.4 Continuity and types of discontinuities
- 2.5 Intermediate Value Theorem
- 2.6 Extreme Value Theorem
- 2.7 Limits at infinity, infinite limits and asymptotes

3 DIFFERENTIATION

- 3.1 Tangent lines and the derivative at a point
- 3.2 The derivative as a function
- 3.3 Differentiation rules for elementary functions
- 3.4 The Product Rule and Quotient Rule
- 3.5 The Chain Rule
- 3.6 Implicit differentiation
- 3.7 Derivatives of inverse functions (incl. logarithms and inverse trig functions)
- 3.8 Linear approximations and differentials

4 APPLICATIONS OF DIFFERENTIATION

- 4.1 Rate of change
- 4.2 Related rates
- 4.3 Critical points and Fermat's Theorem
- 4.4 Rolle's Theorem and Mean Value Theorem
- 4.5 Monotonicity, and the First Derivative Test
- 4.6 Concavity, and the Second Derivative Test

4.7 Curve sketching (synthesis of derivative information)

4.8 Indeterminate forms and L'Hôpital's Rule

4.9 Optimization

4.10 Newton's Method*

5 INTEGRATION

5.1 Estimating area

5.2 Sigma notation and Riemann sums

5.3 Antiderivatives

5.4 The definite integral, area, and net change

5.5 Fundamental Theorem of Calculus

5.6 Indefinite integrals

5.7 Method of Substitution

Teaching delivery methods:

- Lectures
- Exercises
- Remote learning
- Independent work

Student obligations:

- Attending classes
- Submitting projects and assignments
- Participate in discussions

Monitoring student work:

Activity	ECTS
Exam I	1.25
Exam II	1.25

Exam III	1.5
Quizzes/	
Continuous work /	1
Participation	
Total	5

Teaching time is worth 2 ECTS points and it has been incorporated in time for assignments.

Assessment and evaluation of student work

Components of evaluation:

Component	Points/%
Exam I	25
Exam II	25
Exam III	30
Quizzes / Continuous work/ Participation	20
Total:	100

Required reading (at the moment of submitting the Study Programme Report):

- Stewart, J., Calculus, Early Transcendentals, Cengage, Boston, MA

Additional reading (at the moment of submitting the Study Programme Report):

- Handouts and readings will be made available to students throughout the semester by the instructor
- Video material will be made available to students throughout the semester by the instructor

Number of copies of required reading in relation to the number of students who currently attend a course:

Materials available at RIT online library The Wallace Center.

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes

General Information

Course title:	Introduction to Psychology
Course leader:	Maja Vurnek Živković
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	5
Teaching hours (L+S+E):	45 (2+0+1)

Course Description

Course objectives:

- Interpret basic concepts, research findings and ethical principles in psychology.
- Evaluate logical and objective conclusions about behavior and mental processes from empirical evidence and everyday life.
- Analyze written scientific papers from various psychology topics.

Conditions for enrolment in the course:

None

Expected learning outcomes of the course:

A student will be able to:

L01: Describe the concept and consequences from each of the 10 topic areas

L02: Implement the relationship between individuals, the environment, cognition and behaviour

L03: Argue the major critical debates in psychology and connect scientific evidence from different sides of each debate

Course content:

Introduction to the field of psychology. Provides a survey of basic concepts, theories, and research methods. Topics include: thinking critically with psychological science; neuroscience and behavior; sensation and perception; learning; memory; thinking, language, and intelligence; motivation and emotion; personality; psychological disorders and therapy; and social psychology.

Teaching delivery methods:

- Lectures
- Seminars

Student obligations:

- Attending classes
- Submitting projects and assignments
- Participate in discussions

Monitoring student work:

Activity	ECTS
Exam 1	1.25
Exam 2	1.5
Exam 3	1.5
Research report	0.5
Presentation	0.25
Total	5

Teaching time is worth 1.5 ECTS points and it has been incorporated in time for assignments.

Assessment and evaluation of student work

Components of evaluation:

Component	Points/%
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Exam 1	25
Exam 2	30
Exam 3	30
Research report	10
Presentation	5
Total:	100

Course learning outcomes based grading table:

	As 1	As 2	As 3	As 4	As 5	ECTS	Points
ECTS	1.3	1.3	1.3	1.5	0.6		
Points	20	20	20	25	10		
CLO1	x	x		x		2	40
CLO2		x	x	x		1	30
CLO3			x	x		2	30

Required reading (at the moment of submitting the Study Programme Report):

- Myers, D.G. & De Waal N. C. (2018). Psychology (12th Edition). New York: Worth Publishers.
- APA Monitor Journal – monthly edition

- Other sources will be advised for use through Wallace Library at RIT and additional readings from various sources will be available on myCourses.

Additional reading (at the moment of submitting the Study Programme Report):

- Other sources will be advised for use through Wallace Library at RIT and additional readings from various sources will be available on myCourses.

Number of copies of required reading in relation to the number of students who currently attend a course:

Materials available at RIT online library The Wallace Center.

Attendance and participation:

- Class attendance is mandatory. Three absences during the semester are allowed and will not incur penalty. Your sick days are a part of these three allowed absences. Two points will be deducted for each additional absence, regardless of the reason. These points are deducted from the overall score at the end of the semester. A student who repeatedly comes late to class will be marked as absent and lose attendance points. If a student is absent, it is still their responsibility to do the assignment for the missed class and to find out what the assignment is for the next class. A student who has missed more than 40% of classes cannot pass the course, regardless of the number of points acquired.
- Work submitted past the due date will not be accepted. The dropbox folder in which the work is submitted is automatically locked after the deadline. Email submissions will not be accepted.
- Participation means coming to class prepared, listening attentively, taking notes, not engaging in disruptive behavior (side conversations with classmates, chewing gum, drinking, eating, talking on the cell phone, texting, etc.), engaging in discussions, and doing all assigned work. Participation does not equal attendance – it means contributing to the class and showing effort. Students who come to class unprepared (i.e. not having read the assigned text or seen the assigned film) may be asked to leave, thus losing the attendance for that day.

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures

- Assessment of the achievement of learning outcomes

Course Schedule

Week/Lecture	Topic/Activity	Assignments due
W1 L1 W1 L2	Introduction to the course What is Psychology?	
W2 L3 W2 L4	Thinking Critically about Psychology The Biology of the Mind (Neuroscience of Behavior)	
W3 L5 W3 L6	Consciousness and the Two-Track Mind Sleep and Dreams	Pick the topic for group presentation from MyCourses
W4 L7 W4 L8	Basics of Perception and Sensation Learning 1	
W5 L9 W5 L10	Learning 2 Exam 1	
W6 L11 W6 L12	Memory Thinking	Pick the article for research report
W7 L13 W7 L14	Intelligence Nature, Nurture	
W8 L15	Personality	

W8 L16	Emotions and Stress	
W9 L17	Emotions and Health	
W9 L18	Motivation – What drives us	
W10 L19	Social Psychology 1	Research report submission until midnight
W10 L20	Exam 2	
W11 L21	Social Psychology 2	
W11 L22	Psychological Disorders	
W12 L23	Therapy	
W12 L24	Student's presentations	
W13 L25	Student's presentations	
W13 L26		
W14 L27	Student's presentations	
W14 L28		
W15	Exam 3	

Additional Policies and Procedures:

It is the student's duty to thoroughly familiarize themselves with all the policies applied in the course. The policies can be found on the links below:

Equal Access and Disability Accommodation Policy

This policy outlines RIT Croatia's values regarding diversity, equity, and inclusion. [More](#)

Academic Honesty Policy

This policy provides information about academic honesty, academic dishonesty, and related procedures. [More](#)

Resources

Writing Lab

The Writing Lab is a free service which enables students to have a writing assignment for **any class** critiqued with suggested corrections and improvements by an instructor. Using this service improves the quality of the work the student hands in for a grade. [More](#)

General Information

Course title:	Critical Reading and Writing
Course leader:	Jacob Patekar
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	5
Teaching hours (L+S+E):	45 (3+0+0)

Course Description

Course objectives:

- Improve critical reading and writing skills
- Think critically and articulate, support, defend, and refute an argument
- Gain insight into the writing process
- Develop literary practices
- Emphasize the principles of intellectual property and academic honesty
- Engage in peer review

Conditions for enrolment in the course:

Introduction to Academic English – passed or tested out

Expected learning outcomes of the course:

A student will be able to:

- LO1:** Critically analyze a variety of texts.
- LO2:** Evaluate peer work.
- LO3:** Use APA style in citing and referencing.
- LO4:** Compose texts in standard English using appropriate style and rhetorical strategy.

Course content:

- Analyzing and constructing arguments
- Cognitive bias and fake news
- Punctuation
- Paragraphs
- Word choice and style
- Persuasive writing
- Working with sources
- Giving feedback

Teaching delivery methods:

- Lectures
- Exercises
- Independent work
- Multimedia
- Peer review

Student obligations:

- Attending classes
- Submitting projects and assignments
- Participating in discussions

Monitoring student work:

Activity	ECTS
Fallacies & Cognitive Biases Quiz	0.5
Language Quiz	1
Critical Analysis 1	0.5
Critical Analysis 2	0.5
Critical Analysis 3	0.5
Peer Review 1	0.25
Persuasive Essay Draft	0.75
Persuasive Essay Peer Review	0.25
Persuasive Essay Final	0.75

Total 5

Teaching time is worth 1.5 ECTS points and it has been incorporated in time for assignments.

Assessment and evaluation of student work

Components of evaluation:

Component	Points/%
Fallacies & Cognitive Biases Quiz	10
Language Quiz	20
Critical Analysis 1	10
Critical Analysis 2	10
Critical Analysis 3	10
Peer Review 1	5
Persuasive Essay Draft	15
Persuasive Essay Peer Review	5
Persuasive Essay Final	15
Total:	100

Required reading (at the moment of submitting the Study Programme Report):

- VanderMey, R., Meyer, V., Van Rys, J., & Sebranek, P. (2012). *The college writer: A guide to thinking, writing, and researching*. Boston, MA: Wadsworth.
- Lunsford, A. A. (2010). *The St. Martin's handbook*. Boston, MA: Bedford/St. Martin's.

Additional reading (at the moment of submitting the Study Programme Report):

- Anker, S. (2010). *Real writing with readings*. Bedford/St. Martin's.

- Scarry, S., & Scarry, J. (2011). *The writer's workplace with readings. Building college writing skills*. Wadsworth.
- VanderMey, R., Meyer, V., Van Rys, J., & Sebranek, P. (2012). *The college writer: A guide to thinking, writing, and researching*. Wadsworth.

Number of copies of required reading in relation to the number of students who currently attend a course:

Materials available at RIT online library The Wallace Center.

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes

General Information

Course title:	Software Development and Problem Solving II
Course leader:	Alan Mutka
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	6
Teaching hours (L+S+E):	90 (4+0+2)

Course Description

Course objectives:

- Learn to program in a selected, contemporary, high-level programming language (Java).
- Describe and apply problem solving skills, algorithms, and data structures that are appropriate to solve a variety of computing problems of varying degrees of complexity.
- Describe and apply fundamental concepts of software engineering including understanding needs, software design, solution testing, and incremental development.

Conditions for enrolment in the course:

GCIS-123 Software Development and Problem Solving I

Expected learning outcomes of the course:

A student will be able to:

CLO1: Design a class following the object-oriented programming principles

CLO2: Design and implement algorithms that utilize data structures to solve specific computational problems

CLO3: Develop multi-threaded applications by applying concurrent programming concepts, including threads, synchronization, and inter-thread communication

Course content:

- Algorithmic thinking, computational problem solving
- Software design (UML), design principles and design patterns
- Classes, objects, constructors, fields, methods
- Inheritance, interfaces, generics, abstract classes, lambdas
- Multi-dimensional arrays, lists, queues, binary trees, maps, sets, graphs
- Concurrent Programming
- Thread Cooperation
- Networking
- Test Driven Development (TDD), unit & automated testing, command line usage, team work

Teaching delivery methods:

- Lectures
- Independent work
- Laboratory
- Mentoring
- Peer review
- Project work

Student obligations:

- Attending classes
- Submitting assignments
- Participate in discussions

Monitoring student work:

Activity	ECTS
Quizzes	0.3
Class Activities	0.6
Problem Solving	0.6
Assignments	1.5
Practica	1.8

Final Exam 1.2

Total 6

Teaching time is worth 2 ECTS points and it has been incorporated in time for assignments.

Assessment and evaluation of student work

Components of evaluation:

Component	Points/%
Quizzes	5
Class Activities	10
Problem Solving	10
Mini-Practica	8
Assignments	17
Practica	30
Final Exam	20
Total:	100

Required reading:

- Bloch, J. (2018). Effective Java. Boston, MA: Addison-Wesley. ISBN: 978-0-13-468599-1

Additional reading:

- Hunt, A., Thomas, D. (2000). The Pragmatic programmer : from journeyman to master. Boston [etc.]: Addison-Wesley. ISBN: 020161622X 9780201616224

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes

General Information

Course title:	Introduction to Routing and Switching
Course leader:	Mladen Jurković
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	5
Teaching hours (L+S+E):	45 (3+0+0)

Course Description

Course objectives:

- Introduce the foundational aspects of wired network infrastructures, including topologies and technologies, along with the protocols required for effective TCP/IP based communication.
- Dive into basic security concepts pertinent to TCP/IP networks and examine the layers 1, 2, and 3 in-depth using the ISO Open Systems Interconnection and TCP/IP models.
- Provide a comprehensive focus on the TCP/IP protocol suite and explore the Ethernet LAN protocol, emphasizing their roles and implementations in network environments.
- Explore advanced network functionalities through switching technology and the use of routed and routing protocols common in TCP/IP networks.
- Enhance theoretical knowledge with practical application through lab assignments that reflect the lecture content, focusing on experiential learning for each covered topic.

Conditions for enrolment in the course:

CSEC-140 Introduction to Cybersecurity

Expected learning outcomes of the course:

A student will be able to:

LO1: Evaluate RFCs, IEEE standards, and the standardization process as they relate to local and TCP/IP-based networks.

L02: Analyze the OSI and TCP/IP models, with emphasis on layers 1, 2, and 3 in modern communication protocols.

L03: Implement protocols and technologies for switched and routed IPv4 and IPv6 networks, including dynamic routing, VLANs, and network security measures.

L04: Use common network utilities in both Windows and Linux operating systems for troubleshooting and configuration.

Course content:

1. Review of Communications Models
2. Ethernet: Physical and Data Link Layer (802.3)
3. Overview of Internetworking Devices
4. Switch Operations
5. Spanning Tree Protocol(802.1D)
6. Internet Protocol (IP)
7. Basic networking tools and problem solving
8. Routing Basics – workstation perspective
9. Routing Basics – router perspective
10. Routing Metrics
11. Subnetting and CIDR Notation
12. Dynamic Routing Protocols – RIP
13. Dynamic Routing Introduction to OSPF
14. VLANs and Trunking
15. Securing the Network with Access Control Lists
16. Network Address Translation (NAT)
17. IPv6 Structure, Addressing and Neighbor Protocol

Teaching delivery methods:

- Lectures
- Laboratory
- Independent work
- Project

Student obligations:

- Attending classes
- Submitting assignments
- Participate in class activities

Monitoring student work:

Activity	ECTS
Quizzes	0.6
Homeworks	0.6
Daily Quizzes	0.9
Laboratory Assignments	1.8
Midterm Exam	0.9
Final Exam/Project	1.2
Total	6

Teaching time is worth 1.5 ECTS points and it has been incorporated in time for assignments.

Assessment and evaluation of student work**Components of evaluation:**

Component	Points/%
Quizzes	10
Homeworks	10
Daily Quizzes	15
Laboratory Assignments	30
Midterm Exam	15
Final Exam/Project	20
Total:	100

Required reading (at the moment of submitting the Study Programme Report):

- “Packet Guide to Core Network Protocols” by Bruce Hartpence, O’Reilly, ISBN 978-1-449-30653-3
- “Packet Guide to Routing and Switching” by Bruce Hartpence, O’Reilly, ISBN 978-1-449-30655-7

Additional reading (at the moment of submitting the Study Programme Report):

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Number of copies of required reading in relation to the number of students who currently attend a course:

Materials available at RIT online library The Wallace Center.

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes

General Information

Course title:	Project-Based Calculus II
Course leader:	Kristina Šorić
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	5
Teaching hours (L+S+E):	60 (2+0+2)

Course Description

Course objectives:

- To have students exhibit skill in, and knowledge and comprehension of a breadth of mathematical topics.
- To have students use analytical methods and computational tools to solve mathematical problems.
- To have students explain mathematical ideas and arguments in both presentations and writing.

Conditions for enrolment in the course:

MATH-181 Project-Based Calculus I

Expected learning outcomes of the course:

A student will be able to:

- L01:** Analyze integral, parametric curves, infinite sequences and series
- L02:** Analyze mathematical concepts for modeling and solving problems from real world environment
- L03:** Evaluate definite integrals
- L04:** Formulate mathematical equations from verbal descriptions in applications

Course content:

1 TECHNIQUES OF INTEGRATION

- 1.1 Review of substitution
- 1.2 Integration by parts
- 1.3 Trigonometric integrals
- 1.4 Trigonometric substitution
- 1.5 Partial fractions decomposition
- 1.6 Trapezoid Rule (other numerical methods optional)
- 1.7 Improper integrals and comparison theorems

2 APPLICATIONS OF INTEGRATION

- 2.1 Area between curves
- 2.2 Calculation of volume using the method of slicing
 - 2.2.1 Method of disks/washers applied to solids of revolution
 - 2.2.2 Volumes of solids with other (constant) cross-sectional geometry
 - 2.2.3 Calculation of volume using the method of cylindrical shells
- 2.3 Average value
- 2.4 Arc length
- 2.5 Further applications (at least one of the following):
 - 2.5.1 Area of a surface of revolution
 - 2.5.2 Hydrostatic force
 - 2.5.3 Moments, and center of mass
 - 2.5.4 Work

3 PARAMETRIC CURVES

- 3.1 Plane curves defined by parametric equations
- 3.2 Calculus applied to parametric curves
 - 3.2.1 Tangent line
 - 3.2.2 Arc length

4 POLAR COORDINATES

- 4.1 Relationship to Cartesian coordinates
- 4.2 Curves described by equations in polar coordinates

4.3 Area and arc length in polar coordinates

5 INFINITE SEQUENCES

5.1 Definition and examples

5.2 Bounded Monotone Convergence Theorem

6 INFINITE SERIES

6.1 Infinite sum as a limit of partial sums

6.2 Geometric and telescoping series

6.3 The Integral Test and estimates of sums

6.4 Direct Comparison Test

6.5 Limit Comparison Test

6.6 Alternating series

6.7 Absolute and conditional convergence

6.8 Ratio Test and Root Test

6.9 Power series

6.9.1 Definition and examples

6.9.2 Interval of convergence

6.10 Maclaurin series

6.11 Taylor series

6.12 Binomial series

Teaching delivery methods:

- Lectures
- Exercises
- Remote learning
- Independent work

Student obligations:

- Attending classes
- Submitting projects and assignments

- Participate in discussions

Monitoring student work:

Activity	ECTS
Exam I	1.25
Exam II	1.25
Exam III	1.50
Quizzes/ Continuous work/ Participation	1
Total	5

Teaching time is worth 2 ECTS points and it has been incorporated in time for assignments.

Assessment and evaluation of student work**Components of evaluation:**

Component	Points/%
Exam I	25
Exam II	25
Exam III	30
Quizzes/ Continuous work/ Participation	20
Total:	100

Required reading (at the moment of submitting the Study Programme Report):

- Stewart, J., Calculus, Early Transcendentals, Cengage, Boston, MA

Additional reading (at the moment of submitting the Study Programme Report):

- Handouts and readings will be made available to students throughout the semester by the instructor
- Video material will be made available to students throughout the semester by the instructor

Number of copies of required reading in relation to the number of students who currently attend a course:

Materials available at RIT online library The Wallace Center.

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes

General Information

Course title:	Discrete Mathematics for Computing
Course leader:	Kristijan Tabak
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	5
Teaching hours (L+S+E):	45 (1+1+1)

Course Description

Course objectives:

- Examine systems of propositional and predicate calculus.
- Demonstrate basic concepts in set theory.
- Compose various types of relations.
- Formulate recursive structures with applications on counting methods.

Conditions for enrolment in the course:

Co-requisites: MATH-182 Project-Based Calculus II

Expected learning outcomes of the course:

A student will be able to:

- L01:** Create formal methods to evaluate complex logical expressions,
- L02:** Classify different properties of graphs.
- L03:** Analyze enumeration methods for complex combinatorial enumeration problems.
- L04:** Construct sets of solutions for congruences.

Course content:

Number Systems. Modular arithmetic. Set representations. Intersections, unions, and complement. Logic, conjunction, disjunction, and negation. Tautologies and contradictions. Counting. Permutations and combinations. Graph traversal problems, including the traveling salesman problem. Shortest paths and Dijkstra's algorithm Matrix operations. Regular Sets. Regular expressions. Linear grammars. Finite state automata. Equivalence of regular expressions, linear grammars, and finite state automata.

Teaching delivery methods:

- Lectures
- Workshops
- Exercises
- Remote learning
- Independent work
- Multimedia
- Laboratory
- Mentoring
- Peer review

Student obligations:

- Attending classes
- Submitting projects and assignments
- Participate in discussions

Monitoring student work:

Activity	ECTS
Assignment 1	1.5
Assignment 2	1.5
Assignment 3	1.5
Quizzes/	

Continuous work/ 0.5

Participation

Total 5

Teaching time is worth 2 ECTS points and it has been incorporated in time for assignments.

Assessment and evaluation of student work

Components of evaluation:

Component	Points/%
Assignment I	25
Assignment II	25
Assignment III	30
Quizzes/ Continuous work/ Participation	20
Total:	100

Required reading (at the moment of submitting the Study Programme Report):

- Molluzzo and Buckley, A First Course in Discrete Mathematics, Waveland Press, Long Grove, IL.
- Siegel, Schaum's Outline of Discrete Mathematics, McGraw-Hill, Columbus, OH.
- Wallis, W.D., A Beginner's Guide to Discrete Mathematics, Birkhauser, New York, NY.

Additional reading (at the moment of submitting the Study Programme Report):

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Number of copies of required reading in relation to the number of students who currently attend a course:

Materials available at RIT online library The Wallace Center.

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes

General Information

Course title:	WRITING SEMINAR (UWRT 150)
Course leader:	Rebecca Charry Roje
Study programme:	Cybersecurity
Course status:	Obligatory
Year:	First
ECTS points:	5
Teaching hours (L+S+E):	45 (3+0+0)

Course Description

Course objectives:

- develop proficiency in analytical and rhetorical reading and writing and critical thinking
- stimulate students' writing for a variety of contexts and purposes
- develop academic research and literary practices
- emphasize teacher-student conferencing, self-assessment, class discussion, and peer review
- emphasize the principles of intellectual property and academic integrity for academic and future professional writing

Conditions for enrolment in the course:

UWRT-100 Critical Reading and Writing

Expected learning outcomes of the course:

A student will be able to:

- L01:** Examine a variety of intellectually challenging non-fiction texts
- L02:** Criticize peer work
- L03:** Produce and revise a research project in written and oral form

Course content:

- paper structure
- conducting research
- finding sources
- identifying credible sources
- integrating sources
- citing and referencing
- peer review
- reporting findings
- presenting research

Teaching delivery methods:

- Lectures
- Seminars and workshops
- Exercises
- Remote learning
- Field work
- Independent work
- Multimedia and network
- Laboratory
- Mentoring

Student obligations:

- Attending classes
- Submitting projects and assignments
- Participating in discussions

Monitoring student work:

Activity	ECTS
Topic Proposal	0.25
Quick Topic Presentation	0.5
Working Bibliography	0.25

Credibility Quiz	0.5
Research Paper 500 Draft	0.5
Peer Review 1	0.25
Annotated Bibliography	0.5
Research Paper 2000 Draft	0.5
Peer Review 2	0.25
Research Paper Present.	0.5
Final Paper	1
Total	5

Teaching time has been incorporated in time for assignments..

Assessment and evaluation of student work

Components of evaluation:

Component	Points/%
Topic Proposal	5
Quick Topic Presentation	10
Working Bibliography	5
Credibility Quiz	10
RP 500 Draft	10
Peer Review 1	5
Annotated Bibliography	10
RP 2000 Draft	10
Peer Review 2	5
RP Presentation	10
RP Final	20
Total:	100

Required reading (at the moment of submitting the Study Programme Report):

- American Psychological Association. (2020). Publication manual of the American Psychological Association (7th ed.).
- Hacker, D., & Sommers, N. (2015). *A writer's reference* (8th ed.). Bedford/St. Martin's.
- Scarry, S., & Scarry, J. (2011). The writer's workplace with readings. Building college writing skills. Wadsworth.
- Winkler, A. C., & McCuen-Metherell, J. R. (2008). *Writing the research paper. A handbook*. Wadsworth.

Additional reading (at the moment of submitting the Study Programme Report):

- Axelrod, R. B., & Cooper, C. R. (2010). St. Martin's guide to writing. Bedford/St. Martin's.
- McWhorter, K. T. (2012). Successful College Writing. Skills. Strategies. Learning Styles. Bedford/St. Martin's.
- Turabian, K. L. (2013). A manual for writers of research papers, theses, and dissertations. The University of Chicago Press.

Number of copies of required reading in relation to the number of students who currently attend a course:

Materials available at RIT online library The Wallace Center.

Methods for quality monitoring that ensure the acquisition of knowledge, skills and competencies:

- Student survey
- Observation of lectures
- Assessment of the achievement of learning outcomes