



OUTCOMES-BASED EDUCATION (OBE) COURSE SYLLABUS IN
CAP101 – CAPSTONE PROJECT 1

Date revised/enhanced: November 2020

I. School Year/Semester	SY 2020-2021/2 nd Semester	
II. University	Vision: Mission Goal Core Values Institutional Outcomes:	A green university globally engaged in island research and innovations for societal advancement. Foster excellence, holistic, outcomes-based education compliant with the requirements of diverse world market and contribute to the development of productive and value-laden lives. Uphold the tradition of excellence in instruction, research, extension and production functions in an eco-friendly environment. Respect, Integrity, Social Responsibility, Excellence, Commitment A. A <i>Professional</i> who is morally upright, socially responsible and globally employable B. A <i>Leader and Innovator</i> who inspires others and is committed to social transformation and national development C. An <i>Environmental Advocate</i> committed to research, extension and production initiatives
III. College/Campus	College of Information and Communications Technology/ Main Campus	
IV. Program/Degree	Bachelor of Science in Information Technology (BSINFOTECH)	
V. Program Outcomes	<ul style="list-style-type: none">a. Articulate and discuss the latest developments in the specific field of practice.b. Effectively communicate orally and in writing using both English and Filipino.c. Work effectively and independently in multi-disciplinary and multi-cultural teams.d. Act in recognition of professional, social and ethical responsibility.e. Preserve and promote “Filipino historical and cultural heritage”.f. Apply knowledge of computing science, and mathematics appropriate to the discipline.g. Understand best practices and standards and their applications.h. Analyze complex problems and identify and define the computing requirements appropriate to its solution.i. Identify and analyze user needs and take them into account in the selection, creation, evaluation, and administration of computer-based systems.j. Design, implement, and evaluate computer-based systems, processes, components, or programs to meet desired needs and requirements under various constraints.k. Integrate IT-based solutions into the user environment effectively.	



	<ul style="list-style-type: none">l. Apply knowledge through the use of current techniques, skills, tools and practices necessary for the IT profession.m. Function effectively as a member or leader of a development team recognizing the different roles within a team to accomplish a common goal.n. Assist in the creation of an effective IS project plan.o. Communicate effectively with the computing community and with society at large about complex computing activities through logical writing, presentations, and clear instructions.p. Analyze the local and global impact of computing information technology on individuals, organizations, and society.q. Understand professional, ethical, legal, security and social issues and responsibilities in the utilization of information technology.r. Recognize the need for and engage in planning self-learning and improving performance as a foundation for continuing professional development.s. Participate in the generation of new knowledge or in research and development projectst. Support local, regional, and national development plans along education, environment, socio economic, health, gender and development, science, and technology.
VI. Course Code/Title	CAP 101 – Capstone Project 1
VII. Course Description	This course is an application of the concepts of Research Methods that deals with the preparation of a full blown research proposal that includes the defense of the proposed study and marks the start of research and development.
VIII. Course Credit	3 units
IX. Prerequisite	ITP1031-Research Methods
X. Contact Hours	3 hours per week



XI. Course Outcomes

At the end of the course, the students shall be able to:

COs	Description	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Formulate the project, objectives, scope and limitations, and evaluation metric.			√		√		√		√	√		√		√		√	√		√	√
2	Collect and compare literature related to the project.		√			√			√		√	√		√		√		√	√	√	
3	Propose and ethical and feasible IT solution to the identified problems in the project.		√				√		√		√		√		√		√	√		√	√
4	Reinforcing and developing competencies that have not been sufficiently emphasized in the fundamental subjects	√				√		√		√		√		√		√	√		√	√	



XII. Course Outline/Learning Plan

POs	COs	Desired Learning Outcomes	Course Content/ Subject Matter	Textbooks/ References	Teaching and Learning Activities (TLAs)	Assessment Tasks	Instructional Resources/ Materials	Time Table (Hours)
A B C	CO1 CO2 CO4	At the end of the lesson the students be able to: 1. Have a general overview of how to do a capstone project. 2. Discuss the stages and procedures of the capstone project proposal	A. Introduction 1. Rules governing capstone project 2. Stages and procedures of the capstone project proposal	Capstone project seminar paper and undergraduate thesis manual, Approved BOR Resolution No. 30 s 2019, Catanduanes State University	Design a course préparation assignments (CPA) such as listing of at least 3 thesis capstone project done last year and relate the characteristics of research in relation to the listed thesis/capstone project • Webinars • Online Meetings • Group discussion through an online platform	<ul style="list-style-type: none"> ▪ Consultation ▪ Submission of outputs through LMS /email 	<ul style="list-style-type: none"> • Modules submission through LMS/email • Online Presentations • Web Discussions • Webinars • Book 	6 hrs
A,B, C,E	CO2 CO3 CO4	At the end of the lesson the students be able to: 1. Create a list of possible capstone project topics. 2. Present and justified capstone project title	B. Selection of the Research Topic 1. Each group/ student researcher shall prepare three research titles. 2. Each title shall be provided with justification based on theoretical framework, practical	Capstone project seminar paper and undergraduate thesis manual, Approved BOR Resolution No. 30 s 2019, Catanduanes State University	<ul style="list-style-type: none"> • Webinars • Online Meetings • Group discussion through an online platform 	<ul style="list-style-type: none"> ▪ Consultation ▪ Submission of outputs through LMS /email ▪ Submission of projects proposal title 	<ul style="list-style-type: none"> • Modules submission through LMS/email • Online Presentations • Web Discussions • Webinars • Book 	6 hrs



			applicability and value, relevance and workability in accordance with the area of specialization and interests of students. It shall be written using the prescribed form.					
		At the end of the lesson the students be able to: 1. Formulate the project objectives scope and limitations and evaluation rubric a. Formulate the statement of the problem or objectives of the study. b. Distinguish statement of the problem against objectives of the project.	C. Introduction 1. Project Context 2. Purpose and Description 3. Objectives 4. Scope and Limitations 5. Definition of terms	Calderon, J. F. (2019). Methods fo Research amd Thesis writing . Manila Philippines: National Book Store. Lavina, e. (2015). Outcomes-Based Practical Guide to Thesis and Capstone Project Writing in computing. Manila, Philippines: Mindshapper, Inc. ISBN: 978-621-406-035-1. Librero, F. .. (2014). Devcom 204: Communication Research and Evaluation. Manila Philippines: University of the Philippines- Open University.	Design a course preparation assignment (CPA) such as assigning the students to read in advance the textbook covering the topic Formulating the statement of the Problem (SOP) and requiring them to formulate at least 3 SOP and prepare for oral graded web presentation . • Online Meetings • Group discussion through an online platform	• Consultation • Submission of outputs through LMS /email	▪ Modules submission through LMS/email ▪ Online Presentation s ▪ Web Discussions ▪ Webinars ▪ Book	9 hrs
		After studying the chapter the students shall be able to:	A. Review of related literature/systems			▪ Consultation	▪ Modules submission	3 hrs



		1. Collect, compare, and synthesize related literature related to the capstone project proposed 2. formulate the Chapter 2 of the capstone project proposal	1. Related literature 2. Related studies 3. Synthesis/ justification of the present study/project 4. Common guidelines in citing related literature and studies	Lavina, e. (2015). Outcomes-Based Practical Guide to Thesis and Capstone Project Writing in computing. Manila, Philippines: Mindshapper, Inc. ISBN: 978-621-406-035-1.	For Group student, together with the members of their group shall write / formulate the following: 1. Significance of the study and purpose and description 2. Scope and limitation of the study. • Online Meetings • Group discussion through an online platform	▪ Submission of outputs through LMS /email	through LMS/email ▪ Online Presentations ▪ Web Discussions ▪ Webinars Book	
TITLE DEFENSE								3 hrs
		After studying the chapter, the students be able to: 1. Develop the Chapter 3 of the capstone project proposal	D. Design and Methodology 1. Requirements Analysis 2. Requirements documentation 3. Design of software, systems, product and / or processes 4. Development and testing where applicable 5. Description of prototype	Koeford, P. (2014). The writing requirements for graduate degrees. Englewood Cliffs, New Jersey USA: Prentice Hall Inc. Lavina, e. (2015). Outcomes-Based Practical Guide to Thesis and Capstone Project Writing in	Problem based learning • Online Meetings • Group discussion through an online platform	▪ Consultation ▪ Submission of outputs through LMS /email ▪ Submission of projects proposal	▪ Modules submission through LMS/email ▪ Online Presentations ▪ Web Discussions ▪ Webinars Book	24 hrs



			6. Implementation plan (Infrastructure /Deployment), where needed 7. Implementation Results (where applicable) 8. Questionnaire (where applicable)	computing. Manila, Philippines: Mindshapper, Inc. ISBN: 978-621-406-035-1.				
PROPOSAL DEFENSE								3 hrs

XIII. Suggested Readings and References	Online References: <ol style="list-style-type: none">1. http://cics.uc.edu.ph/file.php/1/CapstoneProjectGuidelines2012.pdf2. http://my.feit.uts.edu.au/pages/course/undergraduate/capstone_main/StudentGuide_Autumn_2013_V26%20Feb%2015%20Updated_0.pdf.3. http://www.essaybay.com/research-paper-writing-guide.php4. http://www.essaybay.com/research-proposal-writing-help/IT-research-proposalhelp.php5. http://www.simple-talk.com/sql/database-administration/ten-common-database-design-mistakes6. www.tomjewett.com/dbdesign/dbdesign.php?page=models.html7. www.researchpaperstar.com/blog/research_paper/technology-research-paper-2
XIV. Course Requirements	<p>Due to COVID 19 Pandemic, the midyear activities shall follow the format of a flexible learning platform,viz</p> <ol style="list-style-type: none">1. This course syllabus and all other documents necessary for the course will be available in the learning managements systems portal (LMS) or be sent through email. Students should provide email address and telephone numbers during enrollment.2. All students are required to attend online webinars /meetings scheduled by the professor in charge.3. Individual activities for the outputs shall be submitted for the given date set by the professor through LMS or email to their professor.4. All student enrolled on the subject should be online on the given date and time set by the professor for meetings and other lectures online. If there is no connection and poor connection students should immediately inform their professor. This activity shall be the basis of student's attendance.5. Submission of output and activities should follow the format prescribed by the professor and be submitted on time. The system will automatically close on the prescribed deadline set by the professor.



	<div>6. Modules can be downloaded. If there is no internet connection on their area or poor connection, Student should immediately inform the faculty in charge to make necessary action to assists the student.</div> <div>7. Student should inform the barangay captain with regards to their concern so that the university and the local government can immediately assist and make necessary action with regards to their concern.</div>																								
XV. Course Policies	<div>1. Students with reasonable absences during online activities for the reason they have poor connection or no internet connection will be given consideration provided that they have to submit hard copies through the barangay captain. Inform the barangay captain to send it to the university. There should be proper labelling on the paper to be able to hand it over to the faculty concern.</div> <div>2. Students should be able submit and be present during webinars and online activities. Attendance is necessary</div>																								
XVI. Grading System (Per Board Resolution No. 6, series 2016)	<table><tr><td colspan="4">For Academic Courses</td></tr><tr><td>Midterm/Final Examination</td><td>30%</td><td colspan="2"></td></tr><tr><td>Quizzes/Homeworks/Seatworks/Problem Sets</td><td>30%</td><td colspan="2" rowspan="3">Distribution of Weight for the Overall/Final Grade</td></tr><tr><td>Performance(skill-based; psychomotor)</td><td><u>40%</u></td></tr><tr><td>Total</td><td>100%</td></tr><tr><td></td><td></td><td>Mid-Term Grade</td><td>50%</td></tr><tr><td></td><td></td><td>Tentative</td><td>50%</td></tr></table>	For Academic Courses				Midterm/Final Examination	30%			Quizzes/Homeworks/Seatworks/Problem Sets	30%	Distribution of Weight for the Overall/Final Grade		Performance(skill-based; psychomotor)	<u>40%</u>	Total	100%			Mid-Term Grade	50%			Tentative	50%
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		Mid-Term Grade	50%																						
		Tentative	50%																						
XVII. Consultation Time/Venue	W 1:00 – 6:00 CICT Faculty Room																								

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