ABS414 – Entrepreneurship Theory in Biomedical Sciences

Course Title	Entrepreneurship Theory in Biomedical Sciences		
Course Code	ABS414		
Course Type	Elective		
Level	Bachelor (Level 1)		
Year / Semester	5 th and 7 th semester		
Teacher's Name	Dr Athanasia Nalmpanti		
ECTS	6 Lectures / week 3 Laboratories/week		
Course Purpose	This course provides students with an in-depth understanding of entrepreneurship in the context of biomedical sciences. This course aims to equip students with the knowledge and skills necessary to identify, evaluate, and develop new business opportunities in the biomedical field. It will cover essential entrepreneurial concepts, strategies for starting and managing a business, and practical approaches to commercializing biomedical innovations. The course will also address the unique challenges and opportunities associated with entrepreneurship in the biomedical sector.		
Learning Outcomes	 By the end of the lesson, the student will be able to: Demonstrate a comprehensive understanding of entrepreneurial concepts and principles as they apply to the biomedical sciences. Identify and assess potential business opportunities in the biomedical field. Develop detailed business plans for new ventures, including market analysis, financial projections, and operational strategies. Understand the process of securing funding and investment for biomedical startups. Apply knowledge of intellectual property rights and regulatory considerations in the development and commercialization of biomedical products. Evaluate the ethical and social implications of entrepreneurial activities in the biomedical sciences. Develop strategies for effective leadership and management in a biomedical entrepreneurial setting. Describe how free enterprise economies work and how entrepreneurs fit into them. Describe benefits and drawbacks of owning a small business. Know what a feasibility analysis is and when to create one. 		



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- 11. Articulate core beliefs, mission, and vision 12. Analyze your competitive advantage
- 13. Perform viability testing using economics of one unit.
- 14. Choose your market segment and research it.



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11. Position your product or service within your market.				
 Combine the four P's – product, price, place, promotion – into a marketing mix. 				
13. Choose the attributes of your product or service				
14. Price your product				
15. Identify the critical components of the marketing plan.				
16. Use breakeven analysis to evaluate your marketing plan.				
17. Identify investment required for a business startup				
18. Describe the variable costs of starting a business				
19. Analyze your fixed operating costs and calculate gross profit.				
20. Understand an income statement				
 Examine the balance sheet to determine a business's financing strategy 				
22. Perform a financial ratio analysis of an income statement				
23. Calculate return on investment				
24. Read a cash flow statement				
25. Compare the pros and cons of debt and equity financing.				
None. Co-requisites None.				
Entrepreneurs recognize opportunities				
 Entrepreneurship defined 				
⊙ Why be an entrepreneur?				
 Benefits and costs of becoming an entrepreneur 				
 Opportunity recognition 				

Course Content

Prerequisites

- o Paths to small business ownership
- Business plan: road map to success
 - o Feasibility analysis: will my idea work?
 - o Product/service feasibility
 - Market/industry feasibility
 - o Financial feasibility
 - Business plan components
- Creating business from opportunity



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	 Your competitive advantage 		
	○ Feasibility revisited: the economics of one unit		
	○ Determining the value of a business		
	Integrated marketing		
	○ Exploring your market		
	 Developing the right marketing mix and plan 		
	 Smart selling and effective customer service 		
	Show me the money: finding, securing and managing it		
	 Understanding and managing start-up, fixed and variable costs 		
	 Using financial statement to guide a business 		
	○ Cash flow and taxes		
	○ Financing strategy		
Teaching Methodology	The course material is delivered to the students by means of lectures, conducted with the help of power point presentations and short videos. Case studies are analysed and discussed in class.		
	Power point presentations used in class, lecture notes, some of the case studies are available to the students on the e-learning platform.		
Bibliography	Textbooks:		
	Yock, P.; Zenios S.; Makower J., Brinton T.; Kumar, U.; Watkins J. Biodesign: The Process of Innovating Medical Technologies, 2 ND Edition, 2015, Cambridge University Press References:		
	Mariotti S., Glackin C. Entrepreneurship: starting and operating a small business, 3 rd Edition, Pearson, 2013.		
	Scarborough N., Cornwall J., Entrepreneurship and effective small business management, 11 th Edition, 2015, Pearson.		
Assessment	(a) Methods: Students will be assessed with coursework that involves two midterm tests and a final exam.		
	(b) Weights:		
	Two mid-term tests 40%Final exam 60%		
	(c) Criteria: The assessment criteria are assignment-specific and range from testing problem solving skills, knowledge of the material, and originality of the business ideas.		
	(c) Weights:		
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	Case study: 10%
	Mid-term exam: 30%
	Final exam: 60%
Language	Greek / English.