

Programme: M. Sc. (Botany)

Course Code: BOO- 440

Title of the Course: Bioentrepreneurship and Innovation.

Number of Credits: 1

Effective from AY: 2020-21

Prerequisites for the course:	History of scientific ideas, research methodology, biotechnology at UG level.	
Objective:	Impart knowledge and work experience based/case study based training to students in the field of innovation and uses of various biology/ biotechnology based products, goods, services employed in bioentrepreneurship.	
Content:	<ol style="list-style-type: none">1. Entrepreneurship in the Life Sciences.2. Development of Products in the Biomedical Industry.3. Integration of science, technology and business.4. From Lab to land: scope in agro/food processing industry5. Industrial management.6. Market analysis.7. Business development.8. Regulatory mechanisms.9. Indian bioentrepreneurial scenario.10. Case studies of successful bioentrepreneurs.	1hour 1hour 1hour 1hour 1hour 2hourr 2hours 1hour 1hour 1hour
Pedagogy:	Lectures/ Tutorials/Assignments/Seminars/Group Discussion/Expert Lectures/Videos/Mini projects/Moodle based guidance/Self study.	
References/Readings	<ol style="list-style-type: none">1. Abrams Rhonda, (2010). <i>Six-Week Start-Up: A Step-by-Step Program for Starting Your Business, Making Money and Achieving Your Goals!</i> Redwood City: The Planning Shop.2. Byrne John A. (2011). <i>World Changers: 25 Entrepreneurs Who Changed Business as We Knew it.</i> New York: Penguin.3. Edwards, Paul and Sarah (1999). <i>Working from Home: Everything you need to Know about Living and Working under the Same Roof.</i> New York: Penguin Putman.4. Judson Bruce (2004). <i>Go it alone! The Secret to Building a Successful Business on Your Own.</i> New York: HarperCollins.5. Little Steven S. (2005). <i>The 7 Irrefutable Rules of Small Business Growth.</i> Hoboken: John Wiley & Sons, Inc. 2005.6. Lynn Jacquelyn (2007). <i>The Entrepreneur's Almanac: Fascinating Figures, Fundamentals and</i>	

	<p><i>Facts at your Fingertips</i>. Canada: Entrepreneur Media Inc.</p> <ol style="list-style-type: none"> 7. Mohr Angie (2008). <i>Finance and Grow Your Own Business</i>. North Vancouver: International Self-Counsel Press Ltd. 8. Ramsey David (2011). <i>EntreLeadership: 20 Years of Practical Business Wisdom from the Trenches</i>. New York: Howard Books. 9. Ries Eric (2009). <i>The Lean Startup: How today's Entrepreneurs Use Continuous Innovation to Create Radically Successful Businesses</i>. New York: Crown Business. 10. Rogak Lisa (1999). <i>Smart Guide to Starting a Small Business</i>. New York: John Wiley & Sons, Inc. 11. Solovik Susan Wilson, Ellen R. Kadin and Edie Weiner (2011). <i>It's Your Biz: The Complete Guide to Becoming Your Own Boss</i>. New York: AMACOM. 12. Strauss Steven D. (2008). <i>The Small Business Bible: Everything you need to know to succeed in your small business</i>. Hoboken: John Wiley & Sons, Inc. 13. Kathleen Allen (1995). <i>Launching New Ventures: An Entrepreneurial Approach</i>, Upstart. 14. Jane Applegate (1992). <i>Succeeding in Small Business: The 101 Toughest Problems and How to Solve Them</i>, Plume/Penguin. 15. David H. Bangs, Jr. (1992). <i>The Start Up Guide: A One-Year Plan for Entrepreneurs</i>, Upstart. 16. David H. Bangs, Jr. (1992). <i>The Business Planning Guide: Creating a Plan for Success in Your Own Business</i>, 6th edition, Upstart. 17. Gordon B. Baty (1990). <i>Entrepreneurship for the Nineties</i>, Prentice-Hall. 18. Roger Bel Air (1988). <i>How to Borrow Money from a Banker: A Business Owner's Guide</i>, AMACOM. 19. Thomas P. Bergman (2002). <i>The Essential Guide to Web Strategy for Entrepreneurs</i>, Prentice Hall PTR. 20. Amar V. Bhidé (2000). <i>The Origin and Evolution of New Businesses</i>, Oxford U. Press. 21. Bruce Blechman and Jay Conrad Levinson (1991). <i>Guerrilla Financing: Alternative Techniques to Finance Any Small Business</i>, 	
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	<p>Houghton Mifflin.</p> <p>22. Barbara Buchholz, Margaret Crane, and Ross W. Nager (1999). The Family Business Answer Book: Arthur Andersen Tackles 101 of Your Toughest Questions, Prentice Hall.</p> <p>23. Tim Burns Break (1999). The Curve: The Entrepreneur's Blueprint for Small Business Success, International Thomson Business Press.</p> <p>24. Lawrence Finley (1994). Entrepreneurial Strategies: Text and Cases, PWS-Kent Publishing.</p> <p>25. Michael E. Gerber (1998). The E-Myth Manager: Why Management Doesn't Work—and What to Do About It, HarperBusiness.</p> <p>26. David Gladstone (1988). Venture Capital Handbook, new and revised edition, Prentice-Hall.</p> <p>27. Seth Godin (1998). The Bootstrapper's Bible: How to Start and Build a Business with a Great Idea and Almost No Money, Upstart.</p> <p>28. David E. Gumpert (1990). How to Create a Successful Business Plan, Inc. Publishing.</p> <p>29. Craig Hall (2001). The Responsible Entrepreneur: How to Make Money and Make a Difference, Career Press.</p> <p>30. James W. Halloran (1994). The McGraw-Hill 36-Hour Cour in Entrepreneurship, McGraw-Hill.</p> <p>31. Robert D. Hisrich and Michael P. Peters (1995). Entrepreneurship: Starting, Developing, and Managing a New Enterprise, 3rd edition, Irwin.</p> <p>32. Azriela Jaffe (1998). Let's Go into Business Together: 8Secrets to Successful Business Partnering, Avon Books.</p> <p>33. Guy Kawasaki (1995). How to Drive Your CompetitionCrazy: Creating Disruption for Fun and Profit, Hyperion.</p> <p>34. William Lasher (1994). The Perfect Business Plan- Made Simple, Doubleday Made Simple Books.</p> <p>35. James W. Lea (1991). Keeping It in the Family: Successful Succession of the Family Business, Wiley.</p> <p>36. Jay Conrad Levinson (1997). The Way of the Guerrilla: Achieving Success and Balance as an Entrepreneur in the 21st Century, Houghton Mifflin.</p> <p>37. Jay Conrad Levinson (1984). Guerrilla Marketing:</p>	
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	<p>Secrets for Making Big Profits from Your Small Business, Houghton Mifflin.</p> <p>38. Charles P. Lickson (1994). A Legal Guide for Small Business: How to Do It Right the First Time, Crisp Publications.</p> <p>39. Gary S. Lynn and Norman M. Lynn (1992). Innopreneurship: Turning Bright Ideas into Breakthrough Business for Your Company, Probus Publishing.</p> <p>40. Ronald E. Merrill and Henry D. Sedgwick (1993). The New Venture Handbook: Everything you need to Know to Start and Run Your Own Business, new and updated edition, AMACOM.</p> <p>41. Bill Meyer (1998). Cash Flow: A Practical Guide for the Entrepreneur, Perc Press.</p> <p>42. Linda Pinson and Jerry Jinnett (1996). Steps to Small Business Start-Up: Everything You Need to Know to Turn Your Idea into a Successful Business, 3rd edition, Upstart.</p> <p>43. Russell Robb (1995). Buying Your Own Business, Adams Media Corp.</p> <p>44. Robert Ronstadt (1988). Entrepreneurial Finance: Taking Control of Your Financial Decision Making, Lord Publishing.</p> <p>45. Eric S. Siegel, Brian R. Ford, and Jay M. Borstei (1993). The Ernst & Young Business Plan Guide, 2nd edition, Wiley.</p> <p>46. David Silver (1993). Cashing Out: How to Value and Sell Privately Held Company, Enterprise Dearborn.</p> <p>47. David Silver (1989). Business Bible for Survival: What to Do When Your Company Falls on Hard Times, Prima.</p> <p>48. Lawrence W. Tuller (1997). Finance for Non-Financial Managers and Small Business Owners, Adams Media Corporation.</p> <p>49. Karl H. Vesper (1990). New Venture Strategies, revised edition, Prentice Hall.</p> <p>50. Mel Ziegler, Patricia Ziegler, and Bill Rosenzweig (1992). The Republic of Tea: The Story of the Creation of a Business, as Told through the Personal Letters of Its Founders, Currency Doubleday.</p> <p>51. Anthony Scott D. (2012). The Little Black Book of Innovation: How It Works, How to Do It.</p>	
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	<p>Boston: Harvard Business Review Press, 281pp.</p> <p>52. Berkun Scott (2010). The Myths of Innovation. Sebastopol, CA: O Reilly Media, 225pp.</p> <p>53. Napier Nancy K. and Mikael Nilsson (2008). The Creative Discipline: Mastering the Art and Science of Innovation Westport: Praeger, 227pp.</p>	
Learning Outcomes	<ol style="list-style-type: none"> 1. To be able to prepare a business plan and launch career as bioentrepreneur. 2. Being able to get employment in a bioindustry or a bioconsultancy. 	