

Programme: M. Sc. (Botany)

Course Code: BOO-441

Title of the Course: Lab in Bioentrepreneurship and Innovation.

Number of Credits: 1 (24 hrs)

Effective from AY: 2020-21

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| Prerequisites for the course: | Basic knowledge of biology and biotechnology, biotech based industries and brands, IPR issues | |
| Objective: | To train students for bioentrepreneurship based self employment | |
| Content: | <p>Students would be given short orientation and assigned / placed in a typical bioindustry and would work under guidance of the nominee of the company for duration at the work place equivalent to 12 hours to produce a report in prescribed format. The report needs to be submitted before end of the semester.</p> <ol style="list-style-type: none">1. Internship orientation case studies2. Shop floor briefing at company3. Company assigned internship at the site4. Weekly Report preparation5. Terminal report preparation | <p>2 hours</p> <p>2 hours</p> <p>15 hours</p> <p>2 hours</p> <p>3 hours</p> |
| Pedagogy: | Lectures/Videos/Interviews/Industrial apprenticeship | |

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| 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 Facts at your Fingertips.</i> Canada: Entrepreneur Media Inc. 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, Upstart.</i> 14. Jane Applegate (1992). <i>Succeeding in Small Business: The 101 Toughest Problems and How to</i> |
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| | <p>Solve Them, Plume/Penguin.</p> <ol style="list-style-type: none"> 15. David H. Bangs, Jr. (1992). The Start Up Guide: A One-Year Plan for Entrepreneurs, Upstart. 16. David H. Bangs, Jr. (1992). The Business Planning Guide: Creating a Plan for Success in Your Own Business, 6th edition, Upstart. 17. Gordon B. Baty (1990). Entrepreneurship for the Nineties, Prentice-Hall. 18. Roger Bel Air (1988). How to Borrow Money from a Banker: A Business Owner's Guide, AMACOM. 19. Thomas P. Bergman (2002). The Essential Guide to Web Strategy for Entrepreneurs, Prentice Hall PTR. 20. Amar V. Bhidé (2000). The Origin and Evolution of New Businesses, Oxford U. Press. 21. Bruce Blechman and Jay Conrad Levinson (1991). Guerrilla Financing: Alternative Techniques to Finance Any Small Business, Houghton Mifflin. 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. 23. Tim Burns Break (1999). The Curve: The Entrepreneur's Blueprint for Small Business Success, International Thomson Business Press. 24. Lawrence Finley (1994). Entrepreneurial Strategies: Text and Cases, PWS-Kent Publishing. 25. Michael E. Gerber (1998). The E-Myth Manager: Why Management Doesn't Work—and What to Do About It, HarperBusiness. 26. David Gladstone (1988). Venture Capital Handbook, new and revised edition, Prentice-Hall. 27. Seth Godin (1998). The Bootstrapper's Bible: How to Start and Build a Business with a Great Idea and Almost No Money, Upstart. 28. David E. Gumpert (1990). How to Create a Successful Business Plan, Inc. Publishing. 29. Craig Hall (2001). The Responsible Entrepreneur: How to Make Money and Make a Difference, Career Press. 30. James W. Halloran (1994). The McGraw-Hill 36-Hour Cour in Entrepreneurship, McGraw-Hill. 31. Robert D. Hisrich and Michael P. Peters (1995). Entrepreneurship: Starting, Developing, and | |
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| | <p>Managing a New Enterprise, 3rd edition, Irwin.</p> <p>32. Azriela Jaffe (1998). Let's Go into Business Together: 8 Secrets to Successful Business Partnering, Avon Books.</p> <p>33. Guy Kawasaki (1995). How to Drive Your Competition Crazy: 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: 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</p> | |
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| | <p>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. 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. Being able to launch career as bioentrepreneur. 2. Being able to work as a consultant for bioindustries. 3. Being able to find employment in a biobased production or marketing industry. 4. Being able to do biomarket analysis and prepare a biobusiness plan. | |