

AC 27/2/2013

Item no. 4.30

UNIVERSITY OF MUMBAI



Syllabus
SEMESTER III and IV
Program: M.Sc.
Course: Home Science
Branch III: Textile and Fashion Technology

(Credit Based Semester and Grading System with effect
from the academic year 2013–2014)

M. Sc. (HOME SCIENCE)
BRANCH III: TEXTILE AND FASHION TECHNOLOGY
Semester III

| Course Code | Title | Internal Marks | Semester End Examination | Total Marks | Periods/week | Credits |
|--------------------|--|-----------------------|---------------------------------|--------------------|---------------------|----------------|
| PSHSIII301 | Management and Business Administration | 40 | 60 | 100 | 2 | 4 |
| PSHSIII302 | Part A:Textile and Garment Finishing | 40 | 60 | 100 | 2 | 3 |
| | Part B:Garment Production Technology | 40 | 60 | 100 | 2 | 3 |
| PSHSIIP301 | Textile Design and Advanced Computer Application | — | 50 | 50 | 3 | 2 |
| PSHSIIP302 | Draping (Woven and Knits) | — | 50 | 50 | 3 | 2 |
| PSHSIIP303 | Apparel Design and Production - Knits | — | 50 | 50 | 3 | 2 |
| PSHSIIP304 | Dissertation | 100 | 50 | 150 | 10 | 8 |
| | TOTAL | | | 600 | 25 | 24 |

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|--|--------------|-------|---------|
| PSHSIII301 | Management and Business Administration | 2 | 100 | 4 |

Objectives

- To enhance personal and professional performance
- To make students aware and improve administrative and managerial skills.

| Course Content | | Periods |
|-----------------|--|---------|
| Unit I. | Introduction and basic functions of management Human Resource Development Recruitment and selection, orientation, performance appraisal, training and evaluation | 15 |
| Unit II. | Self awareness Leadership and motivation Conflict management Stress management Group dynamics including decision making | 15 |

References

- Arora, S. P. (1980). *Principles of business economics*. Mumbai: Vipul Prakashan.
- Aswathappa, K. (2005). *Human resource and personal management*. Text and cases. (4th Ed.). New Delhi: Tata McGraw Hill Publishing co. Ltd.
- D'Souza, A. (2001 *Leadership*. (5th Indian print). Mumbai: Better Yourself Books.
- Denyer, J. C. (1975). *Office management*. (4th Ed.). London: Macdonald and Evans Ltd.
- Donnelly, J. H. (1995). *Fundamentals of management*. Chicago: Irwin.
- Drucker, P. F. (1975). *Management, tasks, responsibilities and practices*. Bombay: Allied Publishers.
- Fisher, Cynthia, D. (1997). *Human resource management*. Chennai: All India Publishers.
- George T. (1978). *Principles of management*. Illinois: Learning Systems.
- Hersey, P. (1998). *Management of organizational behaviour*. (7th Ed.). New Delhi: Prentice- Hall of India Pvt. Ltd.
- Ivancevich, J. M. *Management principles and functions*. Delhi: All India Travel Books.
- Kale, N. G. (2000). *Business management*. Mumbai: Vipul Prakashan.
- Kulkarni, L. G. (1984). *Management is the name of the game*. Bombay: India Book House.
- Lockett, J. B. (1987). *The most effective management in your business*. Northamptonshire: Thomsons.
- McGrath, E. H. (1989). *Basic managerial skills for all*. (3rd Ed.). New Delhi: Prentice- Hall of India private Ltd.
- Naik, S. P. (1993). *Principles of Business economics*. Mumbai: Vipul Prakashan.
- Northcote, P. C. and Rustomji, M. K. (1986). *Excellence in management*. Bombay: Mirchandani Publishers.
- Prasad, L. and Banerjee, A., (1985). *Management of human resources*. New Delhi: Sterling Publishers Pvt. Ltd.
- Rao, V. S. P. (2005). *Human resource management: Text and cases*. (2nd Ed.). New Delhi: Excel Books.
- Schafer, W. (1998). *Stress management for wellness*. (4th Ed.). Belmont: Wadsworth Thomson Learning.
- Sekaran, U. (1998). *Organizational behaviour: Text and Cases*. (7th Ed.). New Delhi: Tata McGraw Hill Publishing Company. Ltd.
- Snell, Scott. (2007). *Human resource management*. Australia: Thomson/South-western.
- Vaz, M. (1997). *Management and human resource development*. (9th Ed.). Mumbai: Manisha Prakashan.
- Wendell, F. (1997) *Human resource management*. Chennai: All India Publishers.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|--|--------------|-------|---------|
| PSHSIII302 | Part A: Textile and Garment Finishing | 2 | 100 | 3 |
| | Part B: Garment Production Technology | 2 | 100 | 3 |

Part A: Textile and Garment Finishing

Objectives

- To study about the chemicals used in textile finishing, along with the essential properties of raw materials used in their manufacture and application.
- To study the recent developments in various finishing processes.

| Course Content | | Periods |
|----------------|--|---------|
| Unit I | Introduction to and classification of textile auxiliaries, concept of water surface activity, hydrophilic and lyophilic balance. Chemical finishing processes | 15 |
| Unit II | Cationic, anionic and nonionic surfactants, soaps. | 15 |

References

Charan K. (1980). *Technology of laundry and toilet soaps*. New Delhi: S. B. Publications.
Davidson A. and Milwidsky B. M. (1978). *Synthetic detergent*. Bombay: The Book Center.
Hall A. J. (1986). *Textile finishing*. London: American Elsevier.
Nallankilli G. and Jayaprakashan S. (1997). *Textile finishing*. Kamarpalayam: S. S. M. Publications
Reevco W. A., Orake G. K. and Perkins R. M. (1974). *Fire resistant textiles: handbook*. Westpost: Technomic.
Schindler, W.D. and Hauser, P.J. (2000). *Chemical finishing of textiles*. England: Woodhead Publishing Ltd.
Shenai V. A. (1980). *Chemistry of textile auxiliaries. Vol V*. Bombay: Sevak.
Srivastava S. B., Gupta R. K. and Gupta R. (1980). *Household Detergents and Industrial Surfactants*. New Delhi: Small Business.

Part B: Garment Production Technology

Objectives

- To enhance personal and professional performance.
- To make students aware of the industrial performance.
- To impart the knowledge of the industrial sewing machines equipment and plant layouts.

| Course Content | | Periods |
|----------------|---|---------|
| Unit I | Production, management, planning and control Line Development Total quality management (TQM) Industrial efficiency Industrial sickness | 15 |
| Unit II | Drafts layouts, layering and consumption Industrial sewing machines, needles, irons, cutting and other equipments. | 15 |

References

Batty, J. (1975). *Industrial administration and management*. (3rd Ed.) London: The English language book society and McDonald and Svans.
Claire, B. (1981). *The complete book of sewing shortcuts*. New York: Sterling publisher
Dani, L. M. (1990). *Industrial organization and management*. Bombay: Manan publisher
Kallal, M. (1985). *Clothing construction*. London: Macmillan Publishing Co. Inc.
Kale, N. G. (1997). *Management and human resource development*. (6th Ed.) Mumbai: Manisha.
Michael, V. and Paralkar, V. (1997). *The editors of times-life books*, Netherlands: Time-life B. V. International.
Mehta Pradir V. (1992) *An introduction to quality control for the apparel industry*. ASQC. Quality Press, Marcel Dekker, Inc. Milwaukee, New York, Dase, Hongkong.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|--|--------------|-------|---------|
| PSHSIIP301 | Textile Designing and Advanced Computer Application | 3 | 50 | 2 |

Objectives

- To introduce students to the various textile designing concepts through weaving, printing and embroidery for different end uses.
- To enhance the creativity of students in designing.

| Course Content | | Periods |
|-----------------|---|---------|
| Unit I | Woven, printed, and embroidered textile designing for various end uses like apparel, accessories and home furnishings, using various repeat units and layouts-manual work | 15 |
| Unit II | Western embroidery (Bargello/ Norwich, Cutwork) | 15 |
| Unit III | Western Embroidery (Ribbon embroidery, Bead work, Mount mellick embroidery, etc) | 15 |

* Journal/Portfolio Presentation

References

Beginner's guide to silk ribbon embroidery (1998). (1st Ed.). Kent: Search Press Ltd.
 Cable, S. (1997). *Silk ribbon embroidery*. (1st Ed.). N.Y. The reader's digest association,
Drawn thread embroidery, (1977) Anchor Embroidery Book No.650 Coats Sewing Group, Glasgow.
 Elders, K. (1998) *Embroidery Projects Techniques: motifs*, Quadrilla London: Publishing Ltd.
Embroidery and cross stitch (1983) for framing, Tokyo: Ondarisha publisher.
Embroidery and cross stitch. (1977). Australia: Craft World Books Pvt. Ltd.
Encyclopedia and embroidery (1984) London: Marshall Cavendish Books Ltd.,
 Gostelow, M. (1977). *Embroidery: Traditional designs, techniques and patterns from all over the world*.
 London: Marshall Cavendish Books Ltd,
 Griffiths, A. (1989). *An introduction to embroidery*, London: Apple Press.
 Mellick and Trott. (2002). *Beginner's guide mount embroidery*. Kent: Search Press Ltd.
 Norden, Mary (1997), *Decorative embroidery*, New York: The Reader's Digest Association Inc.
 Ondari, *Embroidery*, Book 2 Japan: Olympus family club
 Pauline, B. *Encyclopedia of embroidery techniques* by, Kent: Search Press Ltd.
 Seaman, J. (1996). *Fashion illustration - Basic techniques*. B. T. Batsford.
 Shenai, V. A. (1977). *History of textile design*. Bombay: Sevak.
 Snook, B., (1972). *The creative art of embroidery*, Hamlyn: Publishing Grp. Ltd. London.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|---------------------------|--------------|-------|---------|
| PSHSIIP302 | Draping (Woven And Knits) | 3 | 50 | 2 |

Objectives

- To acquaint students with the techniques of draping for woven and knitted fabrics.
- To design and construct garments using the principles of draping.

| Course Content | | Periods |
|-----------------|--|---------|
| Unit I | Basic bodice, torso, dart-less sloper. | 15 |
| Unit II | Displacement and concealment of darts. | 15 |
| Unit III | Basics for lower block | 15 |

*Journal Portfolio Presentation

References

Armstrong, H. J. (2000). *Draping for apparel design*. New York: Fairchild publications.
 Cloake, D. (1976) *Fashion design on the stand*. Batsford publication.
 Crawford, Connie, A. (1989) *The art of fashion draping*. Fairchild's Publication.
 Goulbourn, M. (1971) *Introducing pattern cutting, grading and modeling*. Batsford publication
 Mee, J. and Prudy, M. (1987) *Modelling on the stand*. Oxford: BPS Professional Books.
 Silberg, L., and Shoben, M. (1992) *The art of dress modeling*. Oxford: Butterworth Heinmann publication.
 Stanley, H. (1983) *Modeling and flat cutting for fashion*. Hutchison Education publication.

| Course Code | Title | Periods/ week | Marks | Credits |
|-------------|---------------------------------------|---------------|-------|---------|
| PSHSIIP303 | Apparel Design and Production (Knits) | 3 | 50 | 2 |

Objectives

- To familiarize students with special techniques of apparel making with knitted fabrics.
- To acquaint students with the art of handling different knitted fabrics and styles
- To acquaint students with the technique and skills of pattern making and stitching.

| Course Content | | Periods |
|-----------------|--|-----------|
| Unit I | Pattern Drafting Child and adults basic block, dartless sloper and sleeves. | 15 |
| Unit II | Displacements and concealments of darts. | 15 |
| Unit III | Introduction to the different types of fabrics: viz. warp and weft knits. Calculations for Knits. | 15 |

*Journal and Presentation

References

- Ajgaonkar, D. B. (1998). *Knitting technology*. Mumbai: Mumbai Universal.
- Aldrich, W. (1994). *CAD in clothing and textiles*. (2nd Ed.) Oxford, Blackwell, Science.
- Armstrong, H. (1986). *Pattern making for fashion designing*. New York: Harper Collins.
- Armstrong, H. (1987). *Pattern making for fashion designing*. New York: Harper and Row.
- Armstrong, H. J. (2000). *Draping for apparel design*. New York: Fairchild.
- Bradley, G. (1954). *Costume design*. (3rd Ed.) Searnton: International Textbook.
- Carr, H. (1994). *The technology of clothing manufacture*. (2nd Ed.) Oxford: Blackwell Scientific.
- Dunn, L. (1970). *Steps in clothing skills*. Illinois: Chas A. Bennett.
- Goulbourn, M. (1971). *Introducing pattern cutting, grading and modeling*. London: B. T. Batsford.
- Graff, J. L. (1976). *Concepts in clothing*. New York: McGraw Hill.
- Kaiser, S. B. (1985). *The social psychology of clothing*. New York: Macmillan.
- Kefgen, M. (1986). *Individuality in clothing selection and appearance*. (4th Ed.) New York: Macmillan.
- Liddell, L. A. (1981). *Clothes and your appearance*. Illinois: The Goodheart Will Cox.
- Minott, J. (1978). *Fitting commercial patterns*. Minneapolis: Minnesota Burgess.
- Spencer D. (1989). *Knitting technology* (2nd Ed.) Cambridge: Woodhead.
- Stanley, H. (1977). *Modeling and flat cutting for fashion*. London: Hutchison.
- Turnpenny, J. M. (1983). *Fashion design and illustration I1. Knitwear and jersey*. London: Century Hutchison.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------------|---------------------|--------------|------------|----------|
| PSHSIIP304 | DISSERTATION | 10 | 150 | 8 |

Objectives

- To provide students with an opportunity to conduct independent research in their specialization (i.e., Foods, Nutrition and Dietetics; Human Development; and, Textile and Fashion Technology) under supervision.
- To encourage students to work in conjunction with relevant industries, institutes, hospitals, schools, etc.
- To assist students in developing general research skills as well as research skills specific to their specialization.
- To encourage students to adopt best practices in research.
- To facilitate students in accomplishing the beginning steps of the research process, formulate and defend a research proposal, begin data collection, and write the first two chapters of the dissertation (Introduction and Review of Literature; Method).

| Course Content | |
|----------------|---|
| UNIT I | <p>A. Beginning Steps of the Research Process: I Contacting and communicating with experts (locally, nationally, and internationally) initially and periodically throughout the research process; reading relevant literature (e.g., scientific journals, dissertations, theses, books, literature on the Net); selecting appropriate topics in one's specialization; prioritizing these topics; checking topics for feasibility.</p> <p>B. Beginning Steps of the Research Process: II Identifying possible focus areas with regard to one topic; specifying one such focus area (using relevant reading and communication with experts); writing research objectives/ questions/ hypotheses; conducting a thorough literature review; presenting a clear and convincing argument in support of the study; writing the first chapter of the dissertation, namely, the <i>Introduction and Review of Literature</i>, with due acknowledgement of source of ideas.</p> |

| | |
|----------------|---|
| UNIT II | <p>A. Proposing Methods Specifying variables; defining variables (citing relevant literature); selecting an appropriate research design; making decisions related to sampling; selecting and/or constructing tools, pilot-testing tools; making a plan of analysis; writing the second chapter of the dissertation, namely, the <i>Method</i>, with due acknowledgement of source of ideas; orally defending a research proposal; integrating feedback.</p> <p>B. Beginning Data Collection: Obtaining consent from participants and relevant agencies/authorities; starting data collection; integrating changes if any; scheduling remaining data collection; starting data entry; revising the first two chapters of the dissertation.</p> |
|----------------|---|

M. Sc. (HOME SCIENCE)

BRANCH III: TEXTILE AND FASHION TECHNOLOGY

Semester IV

| Course Code | Title | Internal Marks | Semester End Examination | Total Marks | Periods/week | Credits |
|-------------|--|----------------|--------------------------|-------------|--------------|-----------|
| PSHSIII301 | Management and Business Administration | 40 | 60 | 100 | 2 | 4 |
| PSHSIII302 | Part A:Textile and Garment Finishing | 40 | 60 | 100 | 2 | 3 |
| | Part B :Garment Production Technology | 40 | 60 | 100 | 2 | 3 |
| PSHSIIP301 | Textile Design and Advanced Computer Application | — | 50 | 50 | 3 | 2 |
| PSHSIIP302 | Draping (Woven and Knits) | — | 50 | 50 | 3 | 2 |
| PSHSIIP303 | Apparel Design and Production - Knits | — | 50 | 50 | 3 | 2 |
| PSHSIIP304 | Dissertation | 100 | 50 | 150 | 10 | 8 |
| | TOTAL | | | 600 | 25 | 24 |

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|--|--------------|-------|---------|
| PSHSIII401 | Management and Business Administration | 2 | 100 | 4 |

Objectives

- To enhance personal and professional performance
- To make students aware and improve administrative and managerial skills.

| Course Content | | Periods |
|----------------|---|-----------|
| Unit I | Finance management Meaning, significance and objectives of finance management. Sources of finance. Working capital management. Tools of finance analysis and planning. Budget formulation and auditing. | 15 |
| Unit II | Office Management of Information Systems Information management- Role, need, and contemporary systems of management. Information Technology- Use of computers in administration and research. | 15 |

References

- Arora, S. P. (1980). *Principles of business economics*. Mumbai: Vipul Prakashan.
- Aswathappa, K. (2005). *Human resource and personal management*. Text and cases. (4th Ed.). New Delhi: Tata McGraw Hill Publishing co. Ltd.
- D'Souza, A. (2001) *Leadership*. (5th Indian print). Mumbai: Better Yourself Books.
- Denyer, J. C. (1975). *Office management*. (4th Ed.). London: Macdonald and Evans Ltd.
- Donnelly, J. H., (1995). *Fundamentals of management*. Chicago: Irwin.
- Drucker, P. F. (1975). *Management, tasks, responsibilities and practices*. Bombay: Allied Publishers.
- Fisher, Cynthia, D. (1997). *Human resource management*. Chennai: All India Publishers.
- George T. (1978). *Principles of management*. Illinois: Learning Systems.
- Hersey, P. (1998). *Management of organizational behaviour*. (7th Ed.). New Delhi: Prentice- Hall of India Pvt. Ltd.
- Ivancevich, J. M. *Management principles and functions*. Delhi: All India Travel Books.
- Kale, N. G. (2000). *Business management*. Mumbai: Vipul Prakashan.
- Kulkarni, L. G. (1984). *Management is the name of the game*. Bombay: India Book House.
- Lockett, J. B. (1987). *The most effective management in your business*. Northamptonshire: Thomsons.
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- Naik, S. P. (1993). *Principles of business economics*. Mumbai: Vipul Prakashan.
- Northcote, P. C. and Rustomji, M. K. (1986). *Excellence in management*. Bombay: Mirchandani Publishers.
- Prasad, L. and Banerjee, A., (1985). *Management of human resources*. New Delhi: Sterling Publishers Pvt. Ltd.
- Rao, V. S. P. (2005). *Human resource management: Text and cases*. (2nd Ed.). New Delhi: Excel Books.
- Schafer, W. (1998). *Stress management for wellness*. (4th Ed.). Belmont: Wadsworth Thomson Learning.
- Sekaran, U. (1998). *Organizational behaviour: Text and Cases*. (7th Ed.). New Delhi: Tata McGraw Hill Publishing Company. Ltd.
- Snell, Scott. (2007). *Human resource management*. Australia: Thomson/South-western.
- Vaz, M. (1997). *Management and human resource development*. (9th Ed.). Mumbai: Manisha Prakashan.
- Wendell, F. (1997) *Human resource management*. Chennai: All India Publishers.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|---------------------------------------|--------------|-------|---------|
| PSHSIII402 | Part A: Textile and Garment Finishing | 2 | 100 | 3 |
| | Part B: Garment Production Technology | 2 | 100 | 3 |

Part A: Textile and Garment Finishing

Objectives

- To study about the chemicals used in textile finishing, along with the essential properties of raw materials used in their manufacture.
- To study the recent developments in various finishing processes.

| Course Content | | Periods |
|----------------|---|-----------|
| Unit I | Current textile garment finishing in use: Softening finish, stiffening finish, easy care / durable press finish, water repellent and water proof finish, soil release finish, non slip finish, finishing with enzymes. Various chemicals and method used in obtaining these finishes, their mode and mechanism of reaction, effect on various fabric and fabric properties. Eco concerns of the finishes. | 15 |
| Unit II | Current textile garment finishing in use: Flame retardant finish, anti-static finish, anti-pilling finish, UV protection finish, antimicrobial and anti fungal finish Various chemicals and method used in obtaining these finishes, their mode and mechanism of reaction, effect on various fabric and fabric properties. Eco concerns of the finishes. Future trends in chemical finishing | 15 |

References

- Charan, K. (1980). *Technology of laundry and toilet soaps*. New Delhi: S. B. Publications.
- Davidson, A. and Milwidsky, B. M. (1978). *Synthetic Detergent*. Bombay: The Book Center.
- Hall, A. J. (1986). *Textile finishing*. London: American Elsevier.
- Nallankilli, G. and Jayaprakashan, S. (1997). *Textile finishing*. Kamarpalayam: S. S. M. Publications
- Reevco, W. A., Orake G. K. and Perkins R. M. (1974). *Fire resistant textiles: Handbook*. Westpost: Technomic.
- Schindler, W.D. and Hauser, P.J. (2000) *Chemical finishing of textiles*. England: Woodhead Publishing Ltd.
- Shenai, V. A. (1980). *Chemistry of textile auxiliaries. Vol V*. Bombay: Sevak.
- Srivastava, S. B., Gupta, R. K. and Gupta R. (1980). *Household Detergents and industrial surfactants*. New Delhi: Small Business.

Part B: Garment Production Technology

Objectives

- To enhance personal and professional performance.
- To make students aware of the industrial performance.
- To impart the knowledge of the industrial sewing machines equipment and plant layouts.

| Course Content | | Periods |
|----------------|---|-----------|
| Unit I | Industry Plant layouts Types followed in Industry with their advantages and disadvantages | 15 |
| Unit II | Formats and worksheets used in various departments. Cost Sheets, Computer technology in garment manufacture | 15 |

References

- Batty, J. (1975). *Industrial administration and management*. (3rd Ed.) London: The English language book society and McDonald and Svans.
- Claire, B. (1981). *The complete book of sewing shortcuts*. New York: Sterling publisher
- Dani, L. M. (1990). *Industrial organization and management*. Bombay: Manan publisher
- Kallal, M. (1985). *Clothing construction*. London: Macmillan Publishing Co. Inc.
- Kale, N. G. (1997). *Management and human resource development*. (6th Ed.) Mumbai: Manisha.
- Michael, V. and Paralkar, V. (1997). *The editors of times-life books*, Netherlands: Time-life B. V. International.
- Mehta Pradir V. (1992) *An Introduction to Quality Control for the Apparel Industry*. ASQC. Quality Press, Marcel Dekker, Inc. Milwackee, New York, Dasel, Hongkong.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|---|--------------|-------|---------|
| PSHSIIP401 | Textile Designing and Advanced Computer Application | 3 | 50 | 2 |

Objectives

- To introduce students to the various textile designing concepts through weaving, printing and embroidery for different end uses.
- To enhance the creativity of students in designing.
- To introduce students to various advanced textile designing software packages.

| Course Content | | Periods |
|----------------|---|---------|
| Unit I | Creative designing for adult and kids apparel (ATD) world Textiles | 15 |
| Unit II | Fashion accessory and home furnishing (one of each) (using (ATD) world Textiles | 15 |
| Unit III | Demonstrations in Advanced computer aided textile woven and printed designs. | 15 |

*Journal and Portfolio Presentation along with articles

References

- Dalley, T. (1988). *The complete guide to illustration and design: techniques and materials*. New Jersey: Chartwell.
- Encyclopedia and embroidery* (1984) London: Marshall Cavendish Books Ltd.,
- Gostelow, M. (1977). *Embroidery: Traditional designs, techniques and patterns from all over the world*. London: Marshall Cavendish Books Ltd,
- Joyce, C. (1993). *Textile design*. New York: Watson Guptill.
- Seaman, J. (1996). *Fashion illustration - Basic techniques*. B. T. Batsford.
- Shenai, V. A. (1977). *History of textile design*. Bombay: Sevak.
- Winfred, A. (1994) *CAD in clothing and textiles*. (2nd Ed.) Oxford: Blackwell Science Ltd.
- Related software catalogues.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|----------------------------------|--------------|-------|---------|
| PSHSIIP402 | Draping (Woven And Knits) | 3 | 50 | 2 |

Objectives

- To acquaint students with the techniques of draping for woven and knitted fabrics.
- To design and construct garments using the principles of draping.

*Journal and Portfolio

| Course Content | | Periods |
|-----------------|---|---------|
| Unit I | Draping of four patterns including different collars, sleeves and concealments using woven and knitted fabrics. | 15 |
| Unit II | Theme garment | 15 |
| Unit III | Speed Test (4 Garments) | 15 |

References

- Armstrong, H. J. (2000). *Draping for apparel design*. New York: Fairchild publications.
- Cloake, D. (1976) *Fashion design on the stand*. Batsford publication.
- Crawford, Connice, A. (1989) *The art of fashion draping*. Fairchild's Publication.
- Goulbourn, M. (1971) *Introducing pattern cutting, grading and modeling*. Batsford publication
- Mee, J. and Prudy, M. (1987) *Modelling on the stand*. Oxford: BPS Professional Books.
- Silberg, L., and Shoben, M. (1992) *The art of dress modeling*. Oxford: Butterworth Heinmann publication.
- Stanley, H. (1983) *Modeling and flat cutting for fashion*. Hutchison Education publication.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|--|--------------|-------|---------|
| PSHSIIP403 | Apparel Design and Production (Knits) | 3 | 50 | 2 |

Objectives

- To familiarize students with special techniques of apparel making with knitted fabrics.
- To acquaint students with the art of handling different knitted fabrics and styles
- To acquaint students with the technique and skills of pattern making and stitching.

| Course Content | | Periods |
|-----------------|---|---------|
| Unit I | Theme based designing, flat pattern construction and stitching of knitted garments. (Total 3 garments) Night-wear Jacket/Vestcoat Shirt/T-shirt/Top Following concepts and fundamentals to be included in garments or as samples. Concealments Sleeves, Collars and Necklines Pockets and Zip attachments (Invisible and with seam). Plackets | 15 |
| Unit II | Theme based designing, flat pattern construction and stitching of knitted garments. (Total 3 garments) Lingerie Leg-wear Party-wear Following concepts and fundamentals to be included in garments or as samples. Concealments Sleeves, Collars and Necklines Pockets and Zip attachments (Invisible and with seam). Plackets | |
| Unit III | Speed Test Garments (4) | 15 |

*Journal and Presentation

References

Ajgaonkar, D. B. (1998). *Knitting technology*. Mumbai: Mumbai Universal.
 Aldrich, W. (1994). *CAD in clothing and textiles*. (2nd Ed.) Oxford, Blackwell, Science.
 Armstrong, H. (1986). *Pattern making for fashion designing*. New York: Harper Collins.
 Armstrong, H. (1987). *Pattern making for fashion designing*. New York: Harper and Row.
 Armstrong, H. J. (2000). *Draping for apparel design*. New York: Fairchild.
 Bradley, G. (1954). *Costume design*. (3rd Ed.) Searnton: International Textbook.
 Carr, H. (1994). *The technology of clothing manufacture*. (2nd Ed.) Oxford: Blackwell Scientific.
 Dunn, L. (1970). *Steps in clothing skills*. Illinois: Chas A. Bennett.
 Goulbourn, M. (1971). *Introducing pattern cutting, grading and modeling*. London: B. T. Batsford.
 Graff, J. L. (1976). *Concepts in clothing*. New York: McGraw Hill.
 Kaiser, S. B. (1985). *The social psychology of clothing*. New York: Macmillan.
 Kefgen, M. (1986). *Individuality in clothing selection and appearance*. (4th Ed.) New York: Macmillan.
 Liddell, L. A. (1981). *Clothes and your appearance*. Illinois: The Goodheart Will Cox.
 Minott, J. (1978). *Fitting commercial patterns*. Minneapolis: Minnesota Burgess.
 Spencer D. (1989). *Knitting technology* (2nd Ed.) Cambridge: Woodhead.
 Stanley, H. (1977). *Modeling and flat cutting for fashion*. London: Hutchison.
 Turnpenny, J. M. (1983). *Fashion design and illustration11. Knitwear and jersey*. London: Century Hutchison.

| Course Code | Title | Periods/week | Marks | Credits |
|-------------|--------------|--------------|-------|---------|
| PSHSIIP404 | DISSERTATION | 10 | 150 | 8 |

Objectives

- To provide students with an opportunity to conduct independent research in their specialization (i.e., Foods, Nutrition and Dietetics; Human Development; and, Textile and Fashion Technology) under supervision.
- To encourage students to work in conjunction with relevant industries, institutes, hospitals, schools, etc.
- To assist students in developing general research skills as well as research skills specific to their specialization.
- To encourage students to adopt best practices in research.
- To facilitate students in completing data collection/data entry/data analysis, and writing the remaining three chapters of the dissertation (Results, Discussion, Summary).
- To support students to complete and submit the dissertation for the viva voce examination, integrate feedback, submit the final copy of the dissertation, and write a research paper using the findings of their research.

| Course Content | |
|----------------|---|
| UNIT I | <p>A. Completing Data Collection</p> <p>B. Completing Data Entry and Preliminary Analyses Entering all data; checking for data entry errors; running preliminary analyses.</p> <p>C. Analyzing Data and Reporting Results Analyzing data; interpreting findings; reporting results in figures/tables and text using scientific protocol; writing the third chapter of the dissertation, namely, the <i>Results</i>, by research objectives/questions/hypotheses; orally presenting the results and integrating feedback.</p> |
| UNIT II | <p>A. Discussing Findings Corroborating own findings with those in previous research and theory; explaining findings using relevant literature and communication with experts; discussing implications of findings for practice/ industry/family/society; suggesting recommendations for future research; writing the fourth chapter of the dissertation, namely, the <i>Discussion</i>, using appropriate scientific protocol</p> <p>B. Summarizing Findings and Completing the Writing of the Dissertation Writing the fifth chapter of the dissertation, namely, the <i>Summary</i>; writing the abstract; revising previous chapters as necessary; completing all other relevant work for the dissertation (e.g., reference list, appendices, table of contents, and list of figures/tables); submitting the dissertation for the viva voce examination.</p> <p>C. Submission and Oral Defense; Writing of the Research Paper Orally defending the dissertation; integrating feedback into the final document; submitting the completed dissertation (hard copy and soft copy). Using the dissertation to write a research paper; submitting the research paper (hard copy and soft copy).</p> |

Scheme of Examination

The performance of the learners shall be evaluated into two parts. The learner's performance shall be assessed by Internal Assessment with 40% marks in the first part by conducting the Semester End Examinations with 60% marks in the second part. The allocation of marks for the Internal Assessment and Semester End Examinations are as shown below:-

Internal assessment for Theory 40 % (40 marks)

| Sr. No. | Evaluation type | Marks |
|---------|---|-------|
| 1 | One seminar based on curriculum assessed by teacher of the institution teaching PG learners / Publication of a research paper/ presentation of a research paper in seminar or conference. A. Selection of the topic, introduction, write up, references- 15 marks. B. Presentation with the use of ICT- 15 marks. | 30 |
| 2 | Active participation in routine class instructional deliveries | 05 |
| 3 | Overall conduct as a responsible learner, communication and leadership qualities in organizing related academic activities | 05 |

Semester End Theory Examination 60 %

Semester End Theory Examination of 60 marks (three unit courses)

Duration: These examinations shall be of two and half hours duration.

Theory question paper pattern:

- There shall be five questions each of 12 marks. On each unit there will be one question and the first one will be based on entire syllabus.
- All questions shall be compulsory with internal choice within the questions. Each question will be of 18 to 20 marks with options.
- Question may be subdivided into sub-questions a, b, c... and the allocation of marks depend on the weightage of the topic.

Practicals Semester End Examination of 50 marks (No Internal Assessment)

Duration: These examinations to be conducted for three hours.

| Sr. No. | Evaluation type | Marks |
|---------|---|-------|
| 1 | Laboratory work: Semester End Examination | 40 |
| 2 | Journal | 05 |
| 3 | Viva | 05 |

Standard of Passing is as per the ordinances set by the University of Mumbai for the Credit Based Semester and Grading System for the postgraduate courses.