

SKILL DEVELOPMENT CENTRE
Faculty Of Education & Methodology, Agriculture & Veterinary
and Physiotherapy & Diagnostics
JAYOTI VIDYAPEETH WOMEN'S UNIVERSITY, JAIPUR

Bachelor of Vocation (B.Voc) In Medical Lab & Molecular Technology
Curriculum & Training based on National Occupational Standards As Per NSQF
With Multiple Entry/Exit Facilities

| S.NO | Semester-1 | | Credit | |
|------|---|-----------------------------|-----------|-----------|
| 1 | General English | General Education Component | | 6 |
| 2 | Basics of occupational physiology | General Education Component | | 6 |
| 3 | Basics of computers with MS office | Skill Component | 3 | |
| 4 | Structural and Molecular knowledge of Chemicals | Skill Component | 3 | |
| 5 | Basics of PH and Bacterial Culturing | Skill Component | 3 | |
| 6 | Lab Management | Skill Component lab | 3 | |
| 7 | Learning of different Sample making for testing | Skill Component | 3 | |
| 8 | Industrial Training | Skill Component | 3 | |
| | | | 18 | 12 |
| | | | 30 | |

Note:

Exit: *If Exit after obtaining I Semester Credits/Completion of I Semester, C.Voc-Certificate will be awarded in Lab Management*

Entry: *With NSQF level 4 Entry in II Semester*

| S.NO | Semester-2 | | Credit | |
|------|---|-----------------------------|-----------|-----------|
| 1 | Basics of Physiology | General Education Component | | 6 |
| 2 | Basics of practical's in Physiology | General Education Component | | 6 |
| 3 | Elementary Idea of Biochemistry | Skill Component | 3 | |
| 4 | Brief Study of Medical Transcription | Skill Component lab | 2 | |
| 5 | Leveling on Apparatus and Chemicals | Skill Component | 3 | |
| 6 | Role and responsibility of Lab Assistants | Skill Component lab | 2 | |
| 7 | Basics of Bio-Statistics | Skill Component | 3 | |
| 9 | Industrial Training | Skill Component | 3 | |
| | | | 18 | 12 |
| | | | 30 | |

Note:

Exit: *If Exit after obtaining I & II Semester Credits/Completion of I & II Semester, D.Voc- Diploma will be awarded in Lab assistant*

Entry: *With NSQF level 5 Entry in III Semester*

| S.NO | Semester-3 | | Credit | |
|------|---------------------------------------|-----------------------------|-----------|-----------|
| 1 | Health & Hygiene | General Education Component | | 6 |
| 2 | Basics of Microbiology | General Education Component | | 6 |
| 3 | Microbiology Lab | Skill Component | 3 | |
| 4 | Lab Manuals and Precautions | Skill Component lab | 2 | |
| 5 | Lab Management Skill | Skill Component | 3 | |
| 6 | Basics of tissue culture | Skill Component lab | 2 | |
| 7 | Microbiology of Industrial Lubricants | Skill Component | 3 | |
| 8 | Basics of Molecular Biology | Skill Component lab | 2 | |
| 9 | Industrial Training | Skill Component | 3 | |
| | | | 18 | 12 |
| | | | 30 | |

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| S.NO | Semester-4 | | Credit | |
|------|---|-----------------------------|-----------|-----------|
| 1 | Community Health | General Education Component | | 6 |
| 2 | Basics of Bio Chemistry | General Education Component | | 6 |
| 3 | Kitchen Chemistry | Skill Component | 3 | |
| 4 | Minor project on Kitchen Chemistry | Skill Component Lab | 2 | |
| 5 | Food Materials Scientific name and formulae | Skill Component | 3 | |
| 6 | Basics of Pollution Reagents | Skill Component Lab | 2 | |
| 7 | Regenerative Medicines | Skill Component | 3 | |
| 8 | Zero waste bio-processing | Skill Component Lab | 2 | |
| 9 | Industrial Training | Skill Component | 3 | |
| | | | 18 | 12 |
| | | | 30 | |

Note:

Exit: *If Exit after obtaining I, II, III & IV Semester Credits/Completion of I, II, III & IV Semester, A.D.Voc – Advance Diploma will be awarded in Lab Supervisor*

Entry: *With NSQF level 6 Entry in V Semester*

| S.NO | Semester - 5 | | Credit | |
|------|--|-----------------------------|-----------|-----------|
| 1 | Biotechnology of Industrial Lubricants | General Education Component | | 6 |
| 2 | Basics of Medicinal plants | General Education Component | | 6 |
| 3 | Minor project on Medicinal plant | Skill Component | 3 | |
| 4 | Kids and Mother health segment | Skill Component lab | 2 | |
| 5 | Legal Aspects and Labs | Skill Component | 3 | |
| 6 | Basic knowledge of Ultrasonic and X- Ray pattern | Skill Component lab | 2 | |
| 7 | Applied Biotechnology | Skill Component | 3 | |
| 8 | Applied Biotechnology lab | Skill Component lab | 2 | |
| 9 | Industrial Training | Skill Component | 3 | |
| | | | 18 | 12 |
| | | | 30 | |

| S.NO | Semester - 6 | | Credit | |
|------|--|-----------------------------|-----------|-----------|
| 1 | Labs conduction and Safety | General Education Component | | 6 |
| 2 | Lab records keeping | General Education Component | | 6 |
| 3 | Applied Physiology | Skill Component | 3 | |
| 4 | Applied Physiology Lab | Skill Component lab | 2 | |
| 5 | Advance Microbiological Techniques | Skill Component | 3 | |
| 6 | Advance Microbiological Techniques Lab | Skill Component lab | 2 | |
| 7 | Microbial Physiology | Skill Component | 3 | |
| 8 | Microbial Physiology lab | Skill Component lab | 2 | |
| 9 | Industrial Training | Skill Component | 3 | |
| | | | 18 | 12 |
| | | | 30 | |

Note:

Exit: *B.Voc- Degree will be Awarded in Medical Lab & Molecular Technology after obtaining I - VI Semester Credits/Completion of Program.*

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