**List of courses and modules**

 Modular Curriculum for master of Public Health in Biostatistics Students, module and course list

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module series** | **Module category** | **Module Name** | **Module code** | **Course Name**  | **Course Code**  | **Cr Hr** | **EtCTS** | **Lect. hour** | **Lab** |
| 01 | Common  | **Foundation of Public health**  | PuHe-M 6011 | **Foundation of Public health** | PuHe6011 | 2 | 4 | 2 | 0 |
| 02 | Common  |  | PuHe-M6021 | Biostatistics  | PuHe6021 | 3 | 6 | 3 | 0 |
| Epidemiology | PuHe6022 | 3 | 6 | 3 | 0 |
| Research methdology | PuHe6023 | 3 | 6 | 4 | 0 |
| 03 | Common | Health Promotion | PuHe-M6031 | Health Promotion  | PuHe6031 | 2 | 4 | 2 | 0 |
| 04 | Common | Healt system  | PuHe-M6041 | Health Systems Management  | PuHe6041 | 3 | 6 | 3 | 0 |
| Health System Resiliance | PuHe6042 | 1 | 2 | 2 | 0 |
| 05 | Speciality | Advanced Statistical Modelling  | PhBi-M6051 | Probability and Theory Distriution | PhBi6051 | 2 | 4 | 2 | 0 |
| Sampling Practice | PhBi6052 | 2 | 4 | 2 | 0 |
| Clinical Trials | PhBi6053 | 2 | 4 | 2 | 0 |
| Data management and Statistical softwares | PhBi6054 | 2 | 4 | 1 | 3 |
|  | Linear Model for Pubilic health | PhBi6055 | 2 | 4 | 2 | 0 |
| Generalialized Linear Model for Pubilic health | PhBi6056 | 2 | 4 | 2 | 0 |
| Logitudinal data analysis for Pubilic health | PhBi6057 | 2 | 4 | 2 | 0 |
| Multivarate analysis for Pubilic health | PhBi6058 | 2 | 4 | 2 | 0 |
| Applied survival analysis for Pubilic health | PhBi6059 | 2 | 4 | 2 | 0 |
| Elective course | PhBi60510 | 2 | 4 | 2 | 0 |
| 06 | Common | Health System Resarch and Aplication  | PuHe-M7061 | DTTP | PuHe7061 | 3 | 30 | 0 | Practice |
| Thesis | PuHe7062 | 6 | 60 | 0 | 0 |

List of Elective courses

|  |  |  |
| --- | --- | --- |
| Courses | EtCTS | Cr.Hr |
| Non-Parametric | 4 | 2 |
| Bayesian data anaysis | 4 | 2 |
| Statistical Genetics | 4 | 2 |
| Advaced Sampling theory | 4 | 2 |
| Spatial Data Analysis | 4 | 2 |

**Course breakdown and mode of delivery**

**Mode of delivery**

The course works are organized in modules and method of instruction will be in the form of lectures, projects and seminars that are supported by group assignments. Block mode of delivery will be used for both of programs (regular and extension).

 **Semester breakdown for Regular Program**

 **Year I, semester I**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Module name** | **Module Number** | **Module code** | **Course Title**  | **Course Code**  | **ECTS** | **Duration in weeks**  |
| **Foundation of Public health** | 01 | PuHe-M6011 | **Foundation of Public health** | PuHe6011 | 3 | 2 |
| Measurement of Health I | 02 | PuHe-M6021 | Biostatistics  | PuHe6021 | 6 | 3 |
| Epidemiology  | PuHe6022 | 6 | 3 |
| Research methdology | PuHe6023 | 6 | 3 |
| Health promotion  | 03 | PuHe-M6031 | Health promotion  | PuHe6031 | 3 | 2 |
| Health System | 04 | PuHe-M6041 | Health Service Sanagement | PuHe6041 | 6 | 3 |
| Health system Resiliance | PuHe6042 | 2 | 1 |
|  |  |  |  |  |  |  |
| **Total** |  | **29** | **17wks** |

|  |
| --- |
|  **Year I, semester II**  |
| **Module name** | **Module Number** | **Module code** | **Course Title**  | **Course Code**  | **Cr.Hr** | **EtCTS** |
| Probability and theory distriution | 05 | PhBi-M6051 | Probability and theory distriution | PhBi6051 | 2 | 4 |
| Samping Practice | 05 | PhBi-M6052 | Samping Practice | PhBi6052 | 2 | 4 |
| Clinical Trials | 05 | PhBi-M6053 | Clinical trials | PhBi6053 | 2 | 4 |
| Statistical softwares | 05 | PhBi-M6054 | Data management and Statistical softwares | PhBi6054 | 2 | 4 |
| Advanced Statistical modelling  | 05 | PhBi-M6055 | Linear model for Pubilic health | PhBi6055 | 2 | 4 |
| Generalialized Linear Model for Pubilic health | PhBi6056 | 2 | 4 |
| Multivarate analysis for Pubilic health | PhBi6057 | 2 | 4 |
| Logitudinal data analysis for Pubilic health | PhBi6058 | 2 | 4 |
| Applied survival analysis for Pubilic health | PhBi6059 | 2 | 4 |
| Elective course | PhBi6050 | 2 | 4 |
| **Total**  | **20** | **38** |

**Year II, Semister I**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Module name**  | **Module Number** | **Module code** | **Course title** | **Course Code** | **EtCTS** | **Duration in weeks** |
| Health system resarch and aplication  | 06 | PuHe-M7061 | DTTP | PuHe7061 | 30 | 8 weeks |
| Thesis | PuHe7062 | 60\* | Year based |
| **Total** |  |  |  |  | **90** |  |
| ***Note: \* signify that result to be added in the second semister*****Year II, Semister II** |  |  |
|  |  | PuHe-M7061 | Thesis cont... | PuHe7062 | 60\* | Year based |

 Semester Based Course Breakdown For Extention Program

 **Year I, semester I**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Module name** | **Module Number** | **Module code** | **Course Title**  | **Course Code**  | **Cr. Hr** | **EtCTS** | **Duration in weeks** |
| Introduction to public health  | 01 | PuHe-M6011 | Introduction to public health | PuHe6011 | 2 | 4 | 3 |
| Measurement of Health I | 02 | BiEp-M6022 | Biostatistics  | BiEp6021 | 3 | 6 | 4 |
| Epidemiology  | BiEp6022 | 3 | 6 | 4 |
| Research methdology | PuHe6023 | 3 | 6 | 4 |
| **Total**  |  |  |  |  | **11** | **24** | **15** |
|  **Year I, semester II** |  |
| Health promotion  | 03 | PuHe-M6031 | Health promotion  | PuHe6031 | 2 | 4 | 3 |
| Health System | 04 | PuHe-M6041 | Health Service Sanagement | PuHe6041 | 3 | 6 | 4 |
| Health system Resiliance | PuHe6042 | 1 | 2 | 2 |
| Probability and theory of distriution | 05 | PhBi-M6051 | Probability and theory of distriution | PhBi6051 | 2 | 4 | 4 |
| Samping practice | 05 | PhBi-M6052 | Samping practice | PhBi6052 | 2 | 4 | 3 |
| **Total** |  | **10** | **22** | **16** |
|  **Year I, Summer III**  |  |
| **Module name** | **Module Number** | **Module code** | **Course Title**  | **Course Code**  | **Cr.Hr** | **EtCTS** | **Duration in Weeks** |
| Clinical Trials | 05 | PhBi-M6053 | Clinical Trials | PhBi6053 | 2 | 4 | 2 |
| Statistical Softwares | 05 | PhBi-M6054 | Data management and statistical softwares | PhBi6054 | 2 | 4 | 3 |
| Advanced Statistical Modelling  | 05 | PhBi-M6055 | Linear Model for Pubilic health | PhBi6055 | 2 | 4 | 3 |
| **Total**  |  |  |  |  | **6** | **12** | **8** |
|  **Year II, Semister I** |
| Advanced Statistical Modelling  | 05 | PhBi-M6056 | Generalialized Linear Model for Pubilic health | PhBi6056 | 2 | 4 | 3 |
| Multivarate analysis for Pubilic health | PhBi6057 | 2 | 4 | 3 |
| Logitudinal data analysis for Pubilic health | PhBi6058 | 2 | 4 | 3 |
| Applied survival analysis for Pubilic health | PhBi6059 | 2 | 4 | 3 |
| Elective course | PhBi6050 | 2 | 4 |  |
| **Total**  |  |  |  |  | **10** | **20** | **12** |
|  **Year II, Semister II** |
| Health system resarch and aplication  | 06 | PuHe-M7061 | DTTP | PuHe7061 | 30 | 3 | 8 |
| Thesis | PuHe7062 | 60\* | 6 | Year Based |
| **Total**  | **90** | **9** |  |
| ***Note: \* signify that result to be added in the next semister*** **Year II, Summer and Year III semister I** |
| Health system resarch and aplication  | 06 | PuHe-M7061 | Thesis | PuHe6102 | 60\* | 6 | Year Based |
| **Total** | **60\*** | **6** |  |