

## Sree Narayana College, Kollam [ ARI-C-43694 ][ C-43694 ]

## Section 1: Policy And Institutionalization Of I&E Activities In HEIs (Academic Calendar Year 2020-21 & 2021-22)

## 1.1) Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation

| Completion of Action Items (status as on 7th November 2022)              |     |  |  |  |
|--|-----|--|--|--|
| Registered in the NISP portal for I&E Policy Adoption                    | Yes |  |  |  |
| Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy | No  |  |  |  |
| Institute has Action Plans for Implementation of the I&E Policy          | No  |  |  |  |

#### Contact:

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|---------------|-------------------------------|
| Designation:  | Assistant Profrssor of Botany |
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## 1.2) Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained

| Annual Performances of IIC Institute | Stars Secured |
|--------------------------------------|---------------|
| IIC 1.0 (2018-19)                    |               |
| IIC 2.0 (2019-20)                    |               |
| IIC 3.0 (2020-21)                    |               |
| IIC 4.0 (2021-22)                    | 2             |

#### Contact:

| IIC President of the Institute: | Dr Archa Arun       |
|---------------------------------|---------------------|
| Designation:                    | Assistant Professor |

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|------------|-----------------------------|
| Mobile No. | 9847447285                  |

# 1.3) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA

| Sr. No. | Name of the Faculty IA | Level of Training | No of I&E Expert Talks/Sessions<br>Conducted |
|---------|------------------------|-------------------|--|
| 1       | Dr Divya P S           | Advance           | 1  |
| 2       | Indu R                 | Basic             | 0  |
| 3       | Dr. Sreeja Mole S      | Advance           | 5  |
| 4       | Jayanthy S             | Basic             | 0  |
| 5       | Rehna R                | Advance           | 2  |
| 6       | Jissa S                | Basic             | 0  |
| 7       | Dr. Rani Rajeevan      | Advance           | 0  |
| 8       | Dr Misha V             | Advance           | 1  |
| 9       | Preseeja P.J.          | Advance           | 0  |
| 10      | Indu R                 | Basic             | 0  |

### 1.4) Participation in KAPILA/SIH Program

| HEI Registered in the KAPILA Portal                  | C-43694 | No |
|--|---------|----|
| HEI Participated in the Smart India Hackathon (2022) | C-43694 | No |

# Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

## 2.1) Academic Courses in Innovation, Entrepreneurship and IPR

| Srno | Title of Course                                    | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 1    | Entrepreneurship Development                       | CO 1341        | 2020-21          | Core<br>Course     | Bachelor           | Commerce  |
| 2    | E Business   | CO 1331        | 2020-21          | Core<br>Course     | Bachelor           | Commerce  |
| 3    | E-Business and Cyber laws                          | CO 221         | 2020-21          | Core<br>Course     | Master             | Commerce  |
| 4    | International Business                             | CO 224         | 2020-21          | Core<br>Course     | Master             | Commerce  |
| 5    | Quantitative Techniques and Financial Econometrics | CO 223         | 2020-21          | Core<br>Course     | Master             | Commerce  |
| 6    | International Marketing                            | CO 232M        | 2020-21          | Elective<br>Course | Master             | Commerce  |
| 7    | Investment Management                              | CO 225         | 2020-21          | Core<br>Course     | Master             | Commerce  |
| 8    | Marketing Communication                            | CO 234M        | 2020-21          | Elective<br>Course | ,Master            | Commerce  |
| 9    | Income tax Planning and<br>Management              | CO 231U        | 2020-21          | Elective<br>Course | ,Master            | Commerce  |
| 10   | Business ethics and corporate<br>Governance        | CO 211         | 2020-21          | Core<br>Course     | ,Master            | Commerce  |
| 11   | Planning and Development<br>Administration         | CO 214         | 2020-21          | Core<br>Course     | ,Master            | Commerce  |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 12   | Research Methodology                                       | CO 213         | 2020-21          | Core<br>Course     | Master             | Commerce  |
| 13   | Legal framework for business                               | CO 212         | 2020-21          | Core<br>Course     | Master             | Commerce  |
| 14   | Goods and Service tax and<br>Customs Duty Law and Practice | CO 241         | 2020-21          | Elective<br>Course | Master             | Commerce  |
| 15   | Risk Management and Derivatives                            | CO 242F        | 2020-21          | Elective<br>Course | Master             | Commerce  |
| 16   | Marketing Research   | CO 233M        | 2020-21          | Elective<br>Course | Master             | Commerce  |
| 17   | Agricultural and Rural Marketing                           | CO 231M        | 2020-21          | Elective<br>Course | Master             | Commerce  |
| 18   | Management Optimization<br>Techniques                      | CO 244S        | 2020-21          | Elective<br>Course | ,Master            | Commerce  |
| 19   | Logistics and Supply Chain<br>Management                   | CO 241Z        | 2020-21          | Elective<br>Course | Master             | Commerce  |
| 20   | Indian Financial Markets                                   | CO 1441        | 2020-21          | Core<br>Course     | Bachelor           | Commerce  |
| 21   | Fundamentals of Income Tax                                 | CO 1541        | 2020-21          | Core<br>Course     | Bachelor           | Commerce  |
| 22   | Financial Services in India                                | CO 1561.1      | 2020-21          | Elective<br>Course | Bachelor           | Commerce  |

| Srno | Title of Course                                      | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 23   | Hospitality Management                               | CO 1561.3      | 2020-21          | Elective<br>Course | Bachelor           | Commerce  |
| 24   | Tourism Agency Tour operation and Airline Management | CO 1661.3      | 2020-21          | Elective<br>Course | Bachelor           | Commerce  |
| 25   | Entrepreneurship Development                         | CO 1341        | 2021-22          | Core<br>Course     | Bachelor           | Commerce  |
| 26   | E Business   | CO 1331        | 2021-22          | Core<br>Course     | Bachelor           | Commerce  |
| 27   | E-Business and Cyber laws                            | CO 221         | 2021-22          | Core<br>Course     | Master             | Commerce  |
| 28   | International Business                               | CO 224         | 2021-22          | Core<br>Course     | Master             | Commerce  |
| 29   | Quantitative Techniques and Financial Econometrics   | CO 223         | 2021-22          | Core<br>Course     | Master             | Commerce  |
| 30   | International Marketing                              | CO 232M        | 2020-21          | Elective<br>Course | Master             | Commerce  |
| 31   | Investment Management                                | CO 225         | 2021-22          | Core<br>Course     | Master             | Commerce  |
| 32   | Marketing Communication                              | CO 234M        | 2021-22          | Elective<br>Course | Master             | Commerce  |
| 33   | Income tax Planning and<br>Management                | CO 231U        | 2021-22          | Elective<br>Course | Master             | Commerce  |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 34   | Business ethics and corporate<br>Governance                | CO 211         | 2021-22          | Core<br>Course     | Master             | Commerce  |
| 35   | Planning and Development<br>Administration                 | CO 214         | 2021-22          | Core<br>Course     | Master             | Commerce  |
| 36   | Research Methodology                                       | CO 213         | 2021-22          | Core<br>Course     | Master             | Commerce  |
| 37   | Legal framework for business                               | CO212          | 2021-22          | Core<br>Course     | Master             | Commerce  |
| 38   | Goods and Service tax and<br>Customs Duty-Law and Practice | CO 241         | 2021-22          | Elective<br>Course | Master             | Commerce  |
| 39   | Risk Management and Derivatives                            | CO 242F        | 2021-22          | Elective<br>Course | Master             | Commerce  |
| 40   | Risk Management and Derivatives                            | CO 242F        | 2021-22          | Elective<br>Course | Master             | Commerce  |
| 41   | Marketing Research   | CO 233M        | 2021-22          | Elective<br>Course | Master             | Commerce  |
| 42   | Agricultural and Rural Marketing                           | CO 231M        | 2021-22          | Elective<br>Course | Master             | Commerce  |
| 43   | Management Optimization Techniques                         | CO 244S        | 2021-22          | Elective<br>Course | Master             | Commerce  |
| 44   | Logistics and Supply Chain<br>Management                   | CO 241Z        | 2021-22          | Elective<br>Course | Master             | Commerce  |

| Srno | Title of Course                                      | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 45   | Indian Financia l Markets                            | CO 1441        | 2021-22          | Core<br>Course     | Bachelor           | Commerce  |
| 46   | Fundamentals of Income Tax                           | CO 1541        | 2021-22          | Core<br>Course     | Bachelor           | Commerce  |
| 47   | Financi al Service s in India                        | CO 1561.1      | 2021-22          | Elective<br>Course | Bachelor           | Commerce  |
| 48   | Hospita lity Management                              | CO 1561.3      | 2021-22          | Elective<br>Course | Bachelor           | Commerce  |
| 49   | Tourism Agency Tour operation and Airline Management | CO 1661.3      | 2021-22          | Elective<br>Course | Bachelor           | Commerce  |
| 50   | Introductory Micro Economics (I<br>Sem)              | EC1141         | 2020-21          | Core<br>Course     | Bachelor           | ECONOMICS   |
| 51   | Intermediate Micro Economics (II<br>Sem)             | EC1241         | 2020-21          | Core<br>Course     | Bachelor           | ECONOMICS   |
| 52   | Introductory Macro Economics (III sem)               | EC1341         | 2020-21          | Core<br>Course     | Bachelor           | ECONOMICS   |
| 53   | Internet Technology                                  | PC1551.1       | 2020-21          | Elective<br>Course | Bachelor           | Physics   |
| 54   | Energy Physics                                       | PY1551.5       | 2020-21          | Elective<br>Course | Bachelor           | Physics   |
| 55   | Informatics for Applied<br>Econometrics (III sem)    | Ec1321         | 2020-21          | Core<br>Course     | Bachelor           | ECONOMICS   |

| Srno | Title of Course                                       | Course<br>Code                         | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|--|------------------|-------------------|--------------------|---|
| 56   | Mathematical Methods for Economics(IV sem)            | EC 1441                                | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 57   | Intermediate Macro Economics(IV Sem)                  | EC1442                                 | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 58   | Methodology and Perspectives of Social Science(V Sem) | Ec1541                                 | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 59   | Statistical Methods for Economics                     | EC1541                                 | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 60   | Readings in Political Economy                         | EC 1543                                | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 61   | Economic growth and development                       | Ec1544                                 | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 62   | International Economics (VI Sem)                      | International<br>Economics<br>(VI Sem) | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 63   | Indian Economy  | EC1641                                 | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 64   | Banking and Finance                                   | EC 1642                                | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 65   | Public economics                                      | EC 1643                                | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 66   | Environmental economics and disaster management       | EC1644                                 | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |

| Srno | Title of Course                            | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 67   | Kerala Economy                             | EC1661         | 2020-21          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 68   | Micro economics 1 ( I Sem- PG)             | EC 211         | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 69   | Economic growth and development            | EC212          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 70   | Indian economic policy-1                   | EC213          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 71   | Quantitative methods for economics         | EC214          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 72   | Micro economics II (II Sem PG)             | EC221          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 73   | Economics of social sector and environment | EC222          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 74   | Indian economic policy-1I                  | EC223          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 75   | Econometrics and Research methodology      | EC224          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 76   | Macro economics I (III Sem PG)             | EC231          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |
| 77   | International Economics I                  | EC232          | 2020-21          | Core<br>Course    | Master             | ECONOMICS   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 78   | Public Economics   | EC233          | 2020-21          | Core<br>Course     | Master             | ECONOMICS   |
| 79   | Labour-Welfare economics   | EC231.1        | 2020-21          | Elective<br>Course | Master             | ECONOMICS   |
| 80   | Macro Economics II(IV Sem PG)  | EC241          | 2020-21          | Core<br>Course     | Master             | ECONOMICS   |
| 81   | International EconomicsII  | EC242          | 2020-21          | Core<br>Course     | Master             | ECONOMICS   |
| 82   | Financial securities market analysis                                     | EC243          | 2020-21          | Core<br>Course     | Master             | ECONOMICS   |
| 83   | Agriculture-Industrial Economics   | EC243.1        | 2020-21          | Elective<br>Course | Master             | ECONOMICS   |
| 84   | Animal diversity I   | ZO1141         | 2020-21          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 85   | Animal diversity II  | ZO1241         | 2020-21          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 86   | Experimental zoology<br>Instrumentation Biostatics and<br>Bioinformatics | ZO1341         | 2020-21          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 87   | Ecology habitat destruction and disaster management                      | ZO 1441        | 2020-21          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 88   | Cell and Molecular biology   | ZO1541         |                  | Core<br>Course     | Bachelor           | ZOOLOGY   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 89   | Genetics and Biotechnology                              | ZO 1542        | 2020-21          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 90   | Immunology and Microbiology                             | ZO1543         | 2020-21          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 91   | physiology and biochemistry                             | ZO1641         | 2020-21          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 92   | Devolepmental biology and Experimental embryology       | ZO1642         |                  | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 93   | Ethology evolution and<br>Zoogeography                  | ZO1643         | 2020-21          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 94   | Ornamental fresh water fish production                  | ZO 1651.2      | 2020-21          | Elective<br>Course | Bachelor           | ZOOLOGY   |
| 95   | Systematics Evolutionary Biology                        | ZO 211         | 2020-21          | Core<br>Course     | Master             | ZOOLOGY   |
| 96   | Biochemistry  | ZO 212         | 2020-21          | Elective<br>Course | Master             | ZOOLOGY   |
| 97   | Biophysics Instrumentation and Computer Science         | Z0 213         | 2020-21          | Core<br>Course     | Master             | ZOOLOGY   |
| 98   | Advanced Physiology and Functional Anatomy              | ZO 221         | 2020-21          | Elective<br>Course | Master             | ZOOLOGY   |
| 99   | Genetics Quantitative Analysis and Research Methodology | ZO 222         | 2020-21          | Core<br>Course     | Master             | ZOOLOGY   |

| Srno | Title of Course                                   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 100  | Cell Biology Molecular Biology and Bioinformatics | Z0 223         | 2020-21          | Core<br>Course     | Master             | ZOOLOGY   |
| 101  | Microbiology and Biotechnology                    | ZO 231         | 2020-21          | Core<br>Course     | Master             | ZOOLOGY   |
| 102  | Ecology Ethology and Biodiversity<br>Conservation | ZO 232         | 2020-21          | Core<br>Course     | Master             | ZOOLOGY   |
| 103  | Immunology and Developmental<br>Biology           | Z0 233         | 2020-21          | Core<br>Course     | Master             | ZOOLOGY   |
| 104  | Pollution Biology and<br>Environmental Physiology | Zo241          | 2020-21          | Elective<br>Course | Master             | ZOOLOGY   |
| 105  | Environmental Management                          | ZO 242         | 2020-21          | Elective<br>Course | Master             | ZOOLOGY   |
| 106  | METHODOLOGY AND PERSPECTIVES OF SOCIAL SCIENCES   | HY 1141        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 107  | CULTURAL FORMATION OF THE PRE-MODERN WORLD        | HY 1241        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 108  | EVOLUTION OF THE EARLY INDIAN SOCIETY AND CULTURE | HY 1341        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 109  | MEDIEVAL INDIA SOCIO<br>CULTURAL PROCESSES        | HY 1441        | 2020-21          | Core<br>Course     | Bachelor           | HIATORY   |
| 110  | HISTORY OF MODERN WORLD<br>PART I                 | HY 1442        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 111  | MAJOR TRENDS IN HISTORICAL THOUGHTS AND WRITINGS              | HY 1541        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 112  | COLONIALISM AND RESISTANCE<br>MOVEMENTS IN INDIA              | HY 1542        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 113  | HISTORY OF MODERN WORLD -<br>PART II                          | HY 1543        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 114  | HISTORY OF PRE-MODERN<br>KERALA                               | HY 1544        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 115  | MAKING OF INDIAN NATION                                       | HY 1545        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 116  | MAKING OF MODERN KERALA                                       | HY 1641        |                  | Core<br>Course     | Bachelor           | HISTORY   |
| 117  | MAJOR TRENDS IN INDIAN<br>HISTORICAL THOUGHTS AND<br>WRITINGS | HY 1642        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 118  | CONTEMPORARY INDIA  | HY 1643        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 119  | TWENTIETH CENTURY<br>REVOLUTIONS                              | HY 1644        | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 120  | HISTORY OF HUMAN RIGHTS<br>MOVEMENT                           | HY 1551.3      | 2020-21          | Elective<br>Course | Bachelor           | HISTORY   |
| 121  | HISTORY OF HUMAN RIGHTS<br>MOVEMENT                           | HY 1651.6      | 2020-21          | Elective<br>Course | Bachelor           | HISTORY   |

| Srno | Title of Course                          | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 122  | HISTORICAL METHOD I                      | HY 211         | 2020-21          | Core<br>Course     | Master             | HISTORY   |
| 123  | INDIAN HISTORY I                         | HY 212         | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 124  | KERALA HISTORY I                         | HY 213         | 2020-21          | Core<br>Course     | Bachelor           | HISTORY   |
| 125  | ANCIENT GREECE AND ROME                  | HY 214B        | 2020-21          | Elective<br>Course | Bachelor           | HISTORY   |
| 126  | HISTORICAL METHOD II                     | HY 221         | 2020-21          | Core<br>Course     | Master             | HISTORY   |
| 127  | BASIC MECHANICS and PROPERTIES OF MATTER | PY1141         | 2020-21          | Core<br>Course     | Bachelor           | PHYSICS   |
| 128  | INDIAN HISTORY II                        | HY 222         | 2020-21          | Core<br>Course     | Master             | HISTORY   |
| 129  | KERALA HISTORY II                        | HY 223         | 2020-21          | Core<br>Course     | Master             | HISTORY   |
| 130  | HISTORY OF MEDIEVAL EUROPE               | HY 224 C       | 2020-21          | Elective<br>Course | Master             | HISTORY   |
| 131  | HEAT AND THERMODYNAMICS                  | PY1241         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 132  | ISSUES IN HISTORIOGRAPHY                 | HY 231         | 2020-21          | Core<br>Course     | Master             | HISTORY   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offering Department/Centre/Unit |
|------|--|----------------|------------------|--------------------|--------------------|--|
| 133  | INDIAN HISTORY III   | HY 232         | 2020-21          | Core<br>Course     | Master             | HISTORY                                |
| 134  | KERALA HISTORY   | HY 233         | 2020-21          | Core<br>Course     | Master             | HISTORY                                |
| 135  | MODERN REVOLUTIONS-ENGLISH<br>AMERICA AND FRENCH                   | HY 234 A       | 2020-21          | Elective<br>Course | Master             | HISTORY                                |
| 136  | INDIAN HISTORIOGRAPHY  | HY 241         | 2020-21          | Core<br>Course     | Master             | HISTORY                                |
| 137  | INDIAN HISTORY IV  | HY 242         | 2020-21          | Core<br>Course     | Master             | HISTORY                                |
| 138  | KERALA HISTORY IV  | HY 233         | 2020-21          | Core<br>Course     | Master             | HISTORY                                |
| 139  | TWENTIETH CENTURY REVOLUTIONS                                      | HY 244 C       | 2020-21          | Elective<br>Course | Master             | HISTORY                                |
| 140  | Animal diversity I   | ZO1141         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY                                |
| 141  | Animal diversity II  | ZO1241         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY                                |
| 142  | Experimental zoology Instrumentation Biostatics and Bioinformatics | ZO1341         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY                                |
| 143  | ecology habitat destruction and disaster management                | ZO 1441        | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY                                |

| Srno | Title of Course                                    | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 144  | Cell and Molecular biology                         | ZO1541         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 145  | Genetics and Biotechnology                         | ZO 1542        | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 146  | Immunology and Microbiology                        | ZO1543         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 147  | physiology and biochemistry                        | ZO1641         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 148  | Devolepmental biology and Experimental embryology  | ZO1642         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 149  | Ethology evolution and Zoogeography                | ZO1643         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY   |
| 150  | Ornamental fresh water fish production             | ZO 1651.2      | 2021-22          | Elective<br>Course | Bachelor           | ZOOLOGY   |
| 151  | Systematics and Evolutionary<br>Biology            | ZO 211         | 2021-22          | Core<br>Course     | ,Master            | ZOOLOGY   |
| 152  | Biochemistry                                       | ZO 212         | 2021-22          | Core<br>Course     | Master             | ZOOLOGY   |
| 153  | Biophysics Instrumentation and<br>Computer Science | ZO 213         | 2021-22          | Core<br>Course     | Master             | ZOOLOGY   |
| 154  | Advanced Physiology and Functional Anatomy         | ZO 221         | 2021-22          | Core<br>Course     | Bachelor           | ZOOLOGY   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 155  | Genetics Quantitative Analysis and Research Methodology | ZO 222         | 2021-22          | Core<br>Course     | Master             | ZOOLOGY   |
| 156  | Cell Biology Molecular Biology and Bioinformatics       | ZO 223         | 2021-22          | Core<br>Course     | Master             | ZOOLOGY   |
| 157  | Microbiology and Biotechnology                          | ZO 231         | 2021-22          | Core<br>Course     | Master             | ZOOLOGY   |
| 158  | Ecology Ethology Biodiversity Conservation              | ZO 232         | 2021-22          | Core<br>Course     | Master             | ZOOLOGY   |
| 159  | Immunology and Developmental<br>Biology                 | Z0 233         | 2021-22          | Core<br>Course     | Master             | ZOOLOGY   |
| 160  | Pollution Biology and<br>Environmental Physiology       | ZO241          | 2021-22          | Elective<br>Course | Master             | ZOOLOGY   |
| 161  | Environmental Management                                | ZO 242         | 2021-22          | Elective<br>Course | Master             | ZOOLOGY   |
| 162  | Introductory Micro Economics                            | EC1141         | 2021-22          | Core<br>Course     | Master             | ECONOMICS   |
| 163  | Intermediate Micro Economics                            | EC1241         | 2021-22          | Core<br>Course     | ,Master            | ECONOMICS   |
| 164  | Introductory Macro Economics                            | EC1341         | 2021-22          | Core<br>Course     | Master             | ECONOMICS   |
| 165  | Informatics for Applied<br>Econometrics                 | Ec1321         | 2021-22          | Core<br>Course     | Master             | ECONOMICS   |

| Srno | Title of Course                                 | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 166  | Mathematical Methods for Economics              | EC 1441        | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 167  | Intermediate Macro Economics                    | EC 1442        | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 168  | Methodology and Perspectives of Social Science  | Ec1541         | 2021-22          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 169  | Statistical Methods for Economics               | EC1541         | 2021-22          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 170  | Readings in Political Economy                   | EC 1543        | 2021-22          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 171  | Economic growth and development                 | Ec1544         | 2021-22          | Core<br>Course    | ,Bachelor          | ECONOMICS   |
| 172  | International Economics                         | EC 1545        | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 173  | Indian Economy                                  | EC1641         | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 174  | Banking and Finance                             | EC 1642        | 2021-22          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 175  | Public economics                                | EC 1643        | 2021-22          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 176  | Environmental economics and disaster management | EC1644         | 2021-22          | Core<br>Course    | Bachelor           | ECONOMICS   |

| Srno | Title of Course                            | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 177  | Kerala Economy                             | EC1661         | 2021-22          | Core<br>Course    | Bachelor           | ECONOMICS   |
| 178  | Micro economics 1                          | EC 211         | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 179  | Economic growth and development            | EC212          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 180  | Indian economic policy-1                   | EC213          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 181  | Quantitative methods for economics         | EC214          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 182  | Micro economics II                         | EC221          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 183  | Economics of social sector and environment | EC222          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 184  | Indian economic policy-1I                  | EC223          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 185  | Econometrics and Research methodology      | EC224          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 186  | Macro economics I                          | EC231          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |
| 187  | International Economics I                  | EC232          | 2021-22          | Core<br>Course    | Master             | ECONOMICS   |

| Srno | Title of Course                                 | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 188  | Public Economics                                | EC233          | 2021-22          | Core<br>Course     | Master             | ECONOMICS   |
| 189  | Labour-Welfare economics                        | EC231.1        | 2021-22          | Elective<br>Course | Master             | ECONOMICS   |
| 190  | Macro Economics II                              | EC241          | 2021-22          | Core<br>Course     | Master             | ECONOMICS   |
| 191  | International EconomicsII                       | EC242          | 2021-22          | Core<br>Course     | Master             | ECONOMICS   |
| 192  | Financial securities market analysis            | EC243          | 2021-22          | Core<br>Course     | Master             | ECONOMICS   |
| 193  | Agriculture -Industrial Economics               | EC243.1        | 2021-22          | Elective<br>Course | Master             | ECONOMICS   |
| 194  | Human diseases and their management             | ZO 1551.3      | 2020-21          | Elective<br>Course | Bachelor           | ZOOLOGY   |
| 195  | Human diseases and their management             | ZO 1551.3      | 2021-22          | Elective<br>Course | Bachelor           | ZOOLOGY   |
| 196  | METHODOLOGY AND PERSPECTIVES OF SOCIAL SCIENCES | HY 1141        | 2021-22          | Core<br>Course     | Bachelor           | HISTORY   |
| 197  | Electrodynamics                                 | PY1341         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 198  | Classical and Relativistic<br>Mechanics         | PY1441         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 199  | Quantum Mechanics  | PY1541         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 200  | Statistical Physics Research<br>Methodology and Disaster<br>Management | PY1542         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 201  | Electronics  | PY1543         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 202  | Atomic and Molecular Physics   | PY`1544        | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 203  | Solid State Physics  | Py1641         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 204  | Nuclear and Particle Physics   | PY1642         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 205  | Classical and Modern Optics  | Py1643         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 206  | Digital Electronics and Computer<br>Science                            | PY1644         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 207  | Mechanics Thermodynamics and Properties of Matter                      | PC1121         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 208  | Environmental Studies  | PC1241         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 209  | Electrodynamics  | PC1341         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |

| Srno | Title of Course                                   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 210  | Classsical Mechanics and Theory of Relativity     | PC1441         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 211  | Optics  | PC1442         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 212  | Electronics                                       | PC1541         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 213  | Atomic and Nuclear Physics                        | PC1542         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 214  | CULTURAL FORMATION OF THE PRE-MODERN WORLD        | HY 1241        | 2021-22          | Core<br>Course     | Bachelor           | HISTORY   |
| 215  | Solid State Physics                               | PC1641         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 216  | Statistical Physics and Quantum<br>Physics        | PC1642         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 217  | Nanoscience and Technology                        | Pc1661.5       | 2020-21          | Elective<br>Course | ,Bachelor          | Physics   |
| 218  | Introduction to IT                                | PC1171         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 219  | METHODOLOGY AND PERSPECTIVES OF SOCIAL SCIENCES   | HY 1141        | 2021-22          | Core<br>Course     | Bachelor           | HISTORY   |
| 220  | EVOLUTION OF THE EARLY INDIAN SOCIETY AND CULTURE | HY 1341        | 2021-22          | Core<br>Course     | Bachelor           | HISTORY   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 221  | CULTURAL FORMATION OF THE PRE-MODERN WORLD                    | HY 1241        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 222  | MEDIEVAL INDIA SOCIO-<br>CULTURAL PROCESSES                   | HY 1441        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 223  | HISTORY OF MODERN WORLD -<br>PART I                           | HY 1442        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 224  | MAJOR TRENDS IN HISTORICAL THOUGHTS AND WRITINGS              | HY 1541        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 225  | COLONIALISM AND RESISTANCE<br>MOVEMENTS IN INDIA              | HY 1542        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 226  | HISTORY OF MODERN WORLD -<br>PART II                          | HY 1543        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 227  | HISTORY OF PRE-MODERN<br>KERALA                               | HY 1544        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 228  | MAKING OF INDIAN NATION                                       | HY 1545        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 229  | MAKING OF MODERN KERALA                                       | HY 1641        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 230  | MAJOR TRENDS IN INDIAN<br>HISTORICAL THOUGHTS AND<br>WRITINGS | HY 1642        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |
| 231  | CONTEMPORARY INDIA  | HY 1643        | 2021-22          | Core<br>Course    | Bachelor           | HISTORY   |

| Srno | Title of Course                     | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|-------------------------------------|----------------|------------------|--------------------|--------------------|---|
| 232  | TWENTIETH CENTURY REVOLUTIONS       | HY 1644        | 2021-22          | Core<br>Course     | Bachelor           | HISTORY   |
| 233  | HISTORY OF HUMAN RIGHTS<br>MOVEMENT | HY 1551.3      | 2021-22          | Elective<br>Course | Bachelor           | HISTORY   |
| 234  | HISTORY OF HUMAN RIGHTS<br>MOVEMENT | HY 1651.6      | 2021-22          | Elective<br>Course | Bachelor           | HISTORY   |
| 235  | HISTORICAL METHOD I                 | HY 211         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 236  | INDIAN HISTORY I                    | HY 212         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 237  | KERALA HISTORY I                    | HY 213         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 238  | ANCIENT GREECE AND ROME             | HY 214B        | 2021-22          | Elective<br>Course | Master             | HISTORY   |
| 239  | HISTORICAL METHOD II                | HY 221         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 240  | INDIAN HISTORY II                   | HY 222         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 241  | KERALA HISTORY II                   | HY 223         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 242  | HISTORY OF MEDIEVAL EUROPE          | HY 224 C       | 2021-22          | Elective<br>Course | Master             | HISTORY   |

| Srno | Title of Course                                  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 243  | ISSUES IN HISTORIOGRAPHY                         | HY 231         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 244  | INDIAN HISTORY III                               | HY 232         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 245  | KERALA HISTORY                                   | HY 233         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 246  | MODERN REVOLUTIONS ENGLISH<br>AMERICA AND FRENCH | HY 234 A       | 2021-22          | Elective<br>Course | Master             | HISTORY   |
| 247  | INDIAN HISTORIOGRAPHY                            | HY 241         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 248  | INDIAN HISTORY IV                                | HY 242         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 249  | KERALA HISTORY IV                                | HY 233         | 2021-22          | Core<br>Course     | Master             | HISTORY   |
| 250  | TWENTIETH CENTURY REVOLUTIONS                    | HY 244 C       | 2021-22          | Elective<br>Course | Master             | HISTORY   |
| 251  | METHODS OF MATHEMATICS                           | MM1141         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 252  | FOUNDATIONS OF MATHEMATICS                       | MM1221         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 253  | Elementary Number Theory and<br>Calculus I       | MM1341         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 254  | ELEMENTARY NUMBER THEORY<br>AND CALCULUS II                        | MM1441         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 255  | Real Analysis  | MM1541         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 256  | Complex Analysis   | MM1542         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 257  | Abstract Algebra Group Theory                                      | MM1543         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 258  | DIFFERENTIAL EQUATIONS   | MM1544         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 259  | Mathematics Software LATEX AND SageMath Practical Examination Only | MM1545         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 260  | Operations Research OC   | MM1551.1       | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 261  | Real Analysis II   | MM1641         | 2020-21          | Elective<br>Course | Bachelor           | MATHEMATICS   |
| 262  | Complex Analysis II  | MM1642         | 2020-21          | Elective<br>Course | Bachelor           | MATHEMATICS   |
| 263  | Abstract Algebra Ring theory                                       | MM1643         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 264  | Linear Algebra   | MM1644         | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 265  | Integral Transform  | MM1645         | 2020-21          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 266  | Graph Theory  | MM1661.1       | 2020-21          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 267  | LINEAR ALGEBRA  | MM211          | 2020-21          | Core<br>Course    | Master             | MATHEMATICS   |
| 268  | REAL ANALYSIS-I   | MM212          | 2020-21          | Core<br>Course    | Master             | MATHEMATICS   |
| 269  | DIFFERENTIAL EQUATION                                       | MM213          | 2020-21          | Core<br>Course    | Master             | MATHEMATICS   |
| 270  | TOPOLOGY I  | MM214          | 2020-21          | Core<br>Course    | Master             | MATHEMATICS   |
| 271  | Abstract Algebra  | MM221          | 2020-21          | Core<br>Course    | Master             | MATHEMATICS   |
| 272  | Real Analysis-II  | MM222          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 273  | Topology II   | MM223          | 2020-21          | Core<br>Course    | Master             | MATHEMATICS   |
| 274  | Partial Differential Equations And<br>Calculus of Variation | MM224          | 2020-21          | Core<br>Course    | Master             | MATHEMATICS   |
| 275  | Complex Analysis  | MM231          | 2020-21          | Core<br>Course    | Master             | MATHEMATICS   |

| Srno | Title of Course             | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|-----------------------------|----------------|------------------|--------------------|--------------------|---|
| 276  | Functional Analysis I       | MM232          | 2020-21          | Core<br>Course     | Bachelor           | MATHEMATICS   |
| 277  | Operation research          | MM233          | 2020-21          | Elective<br>Course | Master             | MATHEMATICS   |
| 278  | Graph theory                | MM234          | 2020-21          | Elective<br>Course | Master             | MATHEMATICS   |
| 279  | Introduction to Programming | PC1221         | 2020-21          | Core<br>Course     | Bachelor           | Physics   |
| 280  | Number theory               | MM241          | 2020-21          | Core<br>Course     | Master             | MATHEMATICS   |
| 281  | Functional Analysis II      | MM242          | 2020-21          | Core<br>Course     | Master             | MATHEMATICS   |
| 282  | Coding theory               | MM243          | 2020-21          | Elective<br>Course | Master             | MATHEMATICS   |
| 283  | Programming Lab I           | PC1271         | 2020-21          | Core<br>Course     | ,Bachelor          | Physics   |
| 284  | Operating Systems           | PC1371         | 2020-21          | Core<br>Course     | ,Bachelor          | Physics   |
| 285  | Advanced complex Analysis   | MM244          | 2020-21          | Elective<br>Course | Master             | MATHEMATICS   |
| 286  | METHODS OF MATHEMATICS      | MM1141         | 2021-22          | Core<br>Course     | Bachelor           | MATHEMATICS   |

| Srno | Title of Course                             | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 287  | Data Structures                             | PC1372         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 288  | FOUNDATIONS OF MATHEMATICS                  | MM1221         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 289  | Elementary Number Theory and<br>Calculus I  | MM1341         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 290  | Software Engineeering                       | PC1471         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 291  | ELEMENTARY NUMBER THEORY<br>AND CALCULUS II | MM1441         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 292  | Real Analysis                               | MM1541         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 293  | Object Oriented Programming                 | PC1472         | 2020-21          | Core<br>Course    | ,Bachelor          | Physics   |
| 294  | Complex Analysis                            | MM1542         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 295  | Abstract Algebra Group Theory               | MM1543         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 296  | DIFFERENTIAL EQUATIONS                      | MM1544         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 297  | BASIC MECHANICS AND<br>PROPERTIES OF MATTER | PY1141         | 2021-22          | Core<br>Course    | Bachelor           | Physics   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 298  | Mathematics Software LATEX<br>AND SageMath Practical<br>Examination Only | MM1545         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 299  | Operations Research (OC)   | MM1551.1       | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 300  | Programming Lab II   | PC1472         | 2020-21          | Core<br>Course    | ,Bachelor          | Physics   |
| 301  | HEAT AND THERMODYNAMICS  | PY1241         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 302  | Real Analysis-II   | MM1641         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 303  | Complex Analysis II  | MM1642         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 304  | ELECTRODYNAMICS  | PY 1341        | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 305  | Abstract Algebra Ring theory   | MM1643         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 306  | Linear Algebra   | MM1644         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 307  | Integral Transform   | MM1645         | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 308  | First Sem Angiosperm anatomy<br>Reproductive Botany and<br>Palynology    | BO1141         | 2020-21          | Core<br>Course    | Bachelor           | BOTANY  |

| Srno | Title of Course                      | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--------------------------------------|----------------|------------------|-------------------|--------------------|---|
| 309  | Graph Theory                         | MM1661.1       | 2021-22          | Core<br>Course    | Bachelor           | MATHEMATICS   |
| 310  | Database Management Systems          | PC1571         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 311  | LINEAR ALGEBRA                       | MM211          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 312  | Programming Lab III                  | PC1572         | 2020-21          | Core<br>Course    | ,Bachelor          | Physics   |
| 313  | REAL ANALYSIS-I                      | MM212          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 314  | DIFFERENTIAL EQUATION                | MM213          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 315  | TOPOLOGY I                           | MM214          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 316  | Abstract Algebra                     | MM221          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 317  | CLASSICAL AND RELATIVISTIC MECHANICS | PY1441         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 318  | Real Analysis-II                     | MM222          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 319  | QUANTUM MECHANICS                    | PY1541         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 320  | Introduction to Information<br>Security                                | PC1671         | 2020-21          | Core<br>Course    | Bachelor           | Physics   |
| 321  | Topology II  | MM223          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 322  | Methodology and Perspectives of Social Science                         | PS 1141        | 2020-21          | Core<br>Course    | Bachelor           | Political Science                                     |
| 323  | STATISTICAL PHYSICS RESEARCH<br>METHODOLOGY AND DISASTER<br>MANAGEMENT | PY1542         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 324  | Partial Differential Equations And<br>Calculus of Variation            | MM224          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 325  | ComputerNetworks   | PC1672         | 2020-21          | Core<br>Course    | ,Bachelor          | Physics   |
| 326  | ELECTRONICS  | PY1543         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 327  | Classical Mechanics  | PH211          | 2020-21          | Core<br>Course    | ,Master            | Physics   |
| 328  | Complex Analysis   | MM231          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 329  | Mathematical Physics   | PH212          | 2020-21          | Core<br>Course    | ,Master            | Physics   |
| 330  | Functional Analysis I  | MM232          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 331  | Basic Electronics  | PH213          | 2020-21          | Core<br>Course     | ,Master            | Physics   |
| 332  | Modern Optics and<br>Electromagnetic Theory                    | PH221          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 333  | Operation research   | MM233          | 2021-22          | Elective<br>Course | Master             | MATHEMATICS   |
| 334  | ATOMIC AND MOLECULAR PHYSICS                                   | PY1544         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 335  | Thermodynamics Statistical Physics and Basic Quantum Mechanics | PH222          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 336  | Computer Science and Numerical Techniques                      | PH223          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 337  | Energy Physics   | PY1551.5       | 2021-22          | Elective<br>Course | Bachelor           | PHYSICS   |
| 338  | Advanced Quantum Mechanics                                     | PH231          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 339  | Atomic and Molecular<br>Spectroscopy                           | PH232          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 340  | SOLID STATE PHYSICS  | PY 1641        | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 341  | Advanced Electronics I   | PH233E         | 2020-21          | Core<br>Course     | Master             | Physics   |

| Srno | Title of Course                                | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 342  | Condensed Matter Physics                       | PH241          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 343  | Nuclear and Particle Physics                   | PH242          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 344  | NUCLEAR AND PARTICLE PHYSICS                   | PY 1642        | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 345  | Advanced Electronics II                        | PH243E         | 2020-21          | Elective<br>Course | Master             | Physics   |
| 346  | METHODOLOGY OF VEDANTA                         | SV1141         | 2020-21          | Core<br>Course     | Bachelor           | sanskrit  |
| 347  | CLASSICAL AND MODERN OPTICS                    | PY1643         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 348  | DIGITAL ELECTRONICS AND COMPUTER SCIENCE       | PY1644         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 349  | General Physics Prfacticals                    | PH251          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 350  | SANSKRITA PRAVESAKAH                           | SV1131         | 2020-21          | Core<br>Course     |                    | DEPARTMENT (<br>SANSKRIT                              |
| 351  | Electronics and Computer Science<br>Practicals | PH252          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 352  | Advanced Physics Practicals                    | PH261          | 2020-21          | Core<br>Course     | Master             | Physics   |

| Srno | Title of Course                                      | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 353  | MECHANICS THERMODYNAMICS<br>AND PROPERTIES OF MATTER | PC1121         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 354  | Advanced Electronics Practicals                      | PH262          | 2020-21          | Core<br>Course     | Master             | Physics   |
| 355  | ENVIRONMENTAL STUDIES                                | PC1241         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 356  | ELECTRODYNAMICS                                      | PC1341         | 2021-22          | Core<br>Course     | ,Bachelor          | PHYSICS   |
| 357  | SAHITYA PARICAYA                                     | SS1132         | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 358  | DRAMA AND PROSE                                      | SK1111.1       | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 359  | POETRY AND DRAMA                                     | SK 1111.3      | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 360  | KAVYA AND DRANA                                      | SK 1111.3      | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 361  | Graph theory   | MM234          | 2021-22          | Elective<br>Course | Master             | MATHEMATICS   |
| 362  | CLASSICAL MECHANICS AND<br>THEORY OF RELATIVITY      | PC 1441        | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 363  | POETRY AND GRAMMAR                                   | SK 1131.2      | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |

| Srno | Title of Course                           | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 364  | OPTICS                                    | PC1442         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 365  | POETRY GRAMMAR 1                          | SK1131.1       | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 366  | Number theory                             | MM241          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 367  | ELECTRONICS                               | PC 1541        | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 368  | ATOMIC AND NUCLEAR PHYSICS                | PC1542         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 369  | ADVAITHA PARICHAYAH                       | SV 1341        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 370  | SOLID STATE PHYSICS                       | PC1641         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 371  | INFORMATICS FOR SANSKRIT                  | SV 1321        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 372  | Functional Analysis II                    | MM242          | 2021-22          | Core<br>Course    | Master             | MATHEMATICS   |
| 373  | HINDI PROSE                               | HN1141         | 2020-21          | Core<br>Course    | Bachelor           | Hindi   |
| 374  | STATISTICAL PHYSICS AND QUANTUM MECHANICS | PC1642         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |

| Srno | Title of Course                              | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 375  | BHARATIYA DARSANA<br>PARICHAYA               | SV 1331        | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 376  | Coding theory                                | MM243          | 2021-22          | Elective<br>Course | Master             | MATHEMATICS   |
| 377  | Nano Science and Technology                  | PC1661.5       | 2021-22          | Elective<br>Course | Bachelor           | PHYSICS   |
| 378  | BASICS OF NYAYA VAISESHIKA<br>PHILOSOPHY     | SV 1332        | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 379  | Advanced complex Analysis                    | MM244          | 2021-22          | Elective<br>Course | Master             | MATHEMATICS   |
| 380  | HISTORY OF HINDI LITERATURE<br>UPTO RITIKAL  | HN1241         | 2020-21          | Core<br>Course     | Bachelor           | Hindi   |
| 381  | INTRODUCTION TO IT                           | PC 1171        | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 382  | HISTORY OF HINDI LITERATURE<br>MODERN PERIOD | HN1341         | 2020-21          | Core<br>Course     | Bachelor           | Hindi   |
| 383  | MAHAKAVYA AND DRAMA                          | SK 1311.1      | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 384  | INTRODUCTION TO PROGRAMMING                  | PC1221         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 385  | HINDI DRAMA AND ONE ACT<br>PLAYS             | HN1441         | 2020-21          | Core<br>Course     | Bachelor           | Hindi   |

| Srno | Title of Course                    | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|------------------------------------|----------------|------------------|-------------------|--------------------|---|
| 386  | PRAMANA NIRUPANAM                  | SV1543         | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 387  | PROGRAMMING LAB I                  | PC1271         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 388  | PREMCHANDS FICTION                 | HN1442         | 2020-21          | Core<br>Course    | Bachelor           | Hindi   |
| 389  | OPERATING SYSTEMS                  | PC 1371        | 2021-22          | Core<br>Course    | ,Bachelor          | PHYSICS   |
| 390  | DATA STRUCTURES                    | PC1372         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 391  | ANCIENT POETRY                     | HN1541         | 2020-21          | Core<br>Course    | Bachelor           | Hindi   |
| 392  | VEDANTHA VAKYA SAMANYAYA           | SV 1544        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 393  | SOFTWARE ENGINEERING               | PC1471         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 394  | MODERN POETRY                      | HN1542         | 2020-21          | Core<br>Course    | Bachelor           | Hindi   |
| 395  | OBJECT ORIENTED PROGRAMMING        | PC1472         | 2021-22          | Core<br>Course    | Bachelor           | PHYSICS   |
| 396  | HINDI FICTION FROM 1980 TO<br>2000 | HN1543         | 2020-21          | Core<br>Course    | ,Bachelor          | Hindi   |

| Srno | Title of Course                           | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 397  | PROGRAMMING LAB II                        | PC1473         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 398  | HINDI GRAMMAR THEORY AND PRACTICE         | HN1544         | 2020-21          | Core<br>Course     | Bachelor           | Hindi   |
| 399  | PROSE AND FABLES                          | SK 1331.1      | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 400  | HISTORY OF HINDI LANGUAGE<br>AND PRACTICE | HN1545         | 2020-21          | Core<br>Course     | Bachelor           | Hindi   |
| 401  | DATABASE MANAGEMENT<br>SYSTEMS            | PC1571         | 2021-22          | Core<br>Course     |                    | PHYSICS   |
| 402  | POST MODERN HINDI FICTION<br>SINCE 1980   | HN1641         | 2020-21          | Core<br>Course     | ,Bachelor          | Hindi   |
| 403  | POETICS AND POETRY                        | SK1331.2       |                  | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 404  | Internet Technology                       | PC1551.1       | 2021-22          | Elective<br>Course | Bachelor           | PHYSICS   |
| 405  | PROGRAMMING LAB III                       | PC1572         | 2021-22          | Core<br>Course     | ,Bachelor          | PHYSICS   |
| 406  | LITERARY CRITICISM                        | HN1642         | 2020-21          | Core<br>Course     | Bachelor           | Hindi   |
| 407  | TATTVAMASI VIARAH                         | SV 1541        | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |

| Srno | Title of Course                             | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 408  | INTRODUCTION TO INFORMATION SECURITY        | PC1671         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 409  | TRANSLATION THEORY AND PRACTICE             | HN1643         | 2020-21          | Core<br>Course     | ,Bachelor          | Hindi   |
| 410  | PRAYOJANA SAMEEKSHA                         | SV 1545        |                  | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 411  | FILM HISTORY AND PRODUCTION                 | HN1644         | 2020-21          | Core<br>Course     | Bachelor           | Hindi   |
| 412  | COMPUTER NETWORKS                           | PC1672         | 2021-22          | Core<br>Course     | Bachelor           | PHYSICS   |
| 413  | SANSKRIT AND MODERNAGE                      | SV 1551        | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 414  | JOURNALISM AND HINDI<br>JOURALISM IN KERALA | HN1651         | 2020-21          | Elective<br>Course | ,Bachelor          | Hindi   |
| 415  | CLASSICAL MECHANICS                         | PH 211         | 2021-22          | Core<br>Course     | Master             | PHYSICS   |
| 416  | PROJECT                                     | SV 1551        | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 417  | Mathematical Physics                        | PH 212         | 2021-22          | Core<br>Course     | Master             | PHYSICS   |
| 418  | ANCIENT PO EARLY AND RITI<br>PERIODS        | HL 211         | 2020-21          | Core<br>Course     | Master             | Hindi   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 419  | BASIC ELECTRONICS  | PH 213         | 2021-22          | Core<br>Course    | Master             | PHYSICS   |
| 420  | NOVEL AND SHORT STORY  | HL212          | 2020-21          | Core<br>Course    | Master             | Hindi   |
| 421  | Informatics and Political Science                              | PS 1321        | 2020-21          | Core<br>Course    | Bachelor           | Political Science                                     |
| 422  | MODERN OPTICS AND ELECTROMAGNETIC THEORY                       | PH 221         | 2021-22          | Core<br>Course    | Master             | PHYSICS   |
| 423  | VEDANTHA SIKSHANARITI  | SV 1241        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 424  | Indian Constitution  | PS 1341        | 2020-21          | Core<br>Course    |                    | Political Science                                     |
| 425  | THERMODYNAMICS STATISTICAL PHYSICS AND BASIC QUANTUM MECHANICS | PH 222         | 2021-22          | Core<br>Course    | Master             | PHYSICS   |
| 426  | LINGUISTICS  | SV 1231        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 427  | COMPUTER SCIENCE AND NUMERICAL TECHNIQUES                      | PH 223         | 2021-22          | Core<br>Course    | Master             | PHYSICS   |
| 428  | VYAKARANA SIKSHANAM  | SY 1232        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 429  | QUANTUM MECHANICS  | PH231          | 2021-22          | Core<br>Course    | Master             | PHYSICS   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 430  | ATOMIC AND MOLECULAR SPECTROSCOPY                         | PH 232         | 2021-22          | Core<br>Course     | Master             | PHYSICS   |
| 431  | Novel Sahithyam   | ML 1141        | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 432  | EPIC AND STOTRA KAVYA                                     | SK 1211.1      | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 433  | Advanced Electronics I                                    | PH233E         | 2021-22          | Elective<br>Course | Master             | PHYSICS   |
| 434  | Dynamics of Indian Political<br>System                    | PS 1441        | 2020-21          | Core<br>Course     | ,Bachelor          | political science                                     |
| 435  | CONDENSED MATTER PHYSICS                                  | PH241          | 2021-22          | Core<br>Course     | Master             | PHYSICS   |
| 436  | Introduction to Comparitive<br>Politics                   | PS 1442        | 2020-21          | Core<br>Course     | ,Bachelor          | political science                                     |
| 437  | NUCLEAR AND PARTICLE PHYSICS                              | PH242          | 2021-22          | Core<br>Course     | Master             | PHYSICS   |
| 438  | Novel Sahithyam   | ML 1141        | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 439  | Advanced Electronics II                                   | PH243E         | 2021-22          | Elective<br>Course | Master             | PHYSICS   |
| 440  | HISTORY OF HINDI LITERATURE<br>EARLY AND MEDIEVAL PERIODS | HL213          | 2020-21          | Core<br>Course     | Master             | Hindi   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 441  | PROSE AND KAVYA IN SANSKRIT                                 | SK 1211.3      | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 442  | Introduction to Comparitive<br>Politics                     | PS 1442        | 2020-21          | Core<br>Course    | ,Bachelor          | political science                                     |
| 443  | Public administration                                       | PS 1541        | 2020-21          | Core<br>Course    | ,Bachelor          | Political science                                     |
| 444  | Angiosperm anatomy<br>Reproductive Botany and<br>Palynology | BO1141         | 2020-21          | Core<br>Course    | Bachelor           | Botany  |
| 445  | PROSE AND DRAMA   | SK 1231.2      | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 446  | Nadaka Sahithaym  | ML 1241        | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 447  | Ancient and Medieval Political<br>Thought                   | PS 1542        | 2020-21          | Core<br>Course    | ,Bachelor          | Political science                                     |
| 448  | Methodology and Perspectives in Plant Science               | BO1221         | 2020-21          | Core<br>Course    | Bachelor           | Botany  |
| 449  | SMRITI PRASTHANAM   | SV 1441        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 450  | International Relations                                     | PS 1543        | 2020-21          | Core<br>Course    | ,Bachelor          | Political science                                     |
| 451  | SRUTHI PRASTHANAM   | SV 1442        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 452  | Nadaka Sahithaym   | ML 1241        | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 453  | Research Methods in Political<br>Science                           | PS 1544        | 2020-21          | Core<br>Course    | ,Bachelor          | Political Science                                     |
| 454  | Human Rights in India  | PS 1545        | 2020-21          | Core<br>Course    | ,Bachelor          | Political Science                                     |
| 455  | POETICS IN SANSKRIT AND SANSKRIT LITERATURE                        | SV 1431        | 2020-21          | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 456  | Sahithyameemamsa<br>Pourasthiyavum Paaschathiyavum                 | ML 1341        | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 457  | Microbiology Phycology Mycology<br>Lichenology and Plant Pathology | BO1341         | 2020-21          | Core<br>Course    | ,Bachelor          | Botany  |
| 458  | INDIAN AND WESTERN LITERARY THOUGHTS                               | HL214          | 2020-21          | Core<br>Course    | Master             | Hindi   |
| 459  | Modern Political Thought   | PS 1641        | 2020-21          | Core<br>Course    | ,Bachelor          | Political Science                                     |
| 460  | JYOTHIR VINJANAM   | SJ 1432        |                  | Core<br>Course    | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 461  | Bryology Pteridology<br>Gymnosperms and Paleobotany                | BO1441         | 2020-21          | Core<br>Course    | Bachelor           | Botany  |
| 462  | MEDIEVAL POETRY BHAKTI<br>PERIOD                                   | HL221          | 2020-21          | Core<br>Course    | ,Master            | Hindi   |

| Srno | Title of Course                                    | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 463  | State and Society in Kerala                        | PS 1642        | 2020-21          | Core<br>Course     | ,Bachelor          | Political Science                                     |
| 464  | Sahithyameemamsa<br>Pourasthiyavum Paaschathiyavum | ML 1341        | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 465  | JYOTHIR VINJANAM                                   | SJ 1432        | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 466  | LINGUISTICS AND HISTORY OF<br>HINDI LANGUAGE       | HL222          | 2020-21          | Core<br>Course     | ,Master            | Hindi   |
| 467  | Decentralization and Participatory Democracy       | PS 1643        | 2020-21          | Core<br>Course     | ,Bachelor          | political science                                     |
| 468  | CONTRIBUTION OFSANSKRIT ON INDIAN CULTURE          | SK 1411.1      | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |
| 469  | Aadhunika Malayala Kavitha                         | ML 1441        | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 470  | New Social Movements                               | PS 1644        | 2020-21          | Core<br>Course     | ,Bachelor          | political science                                     |
| 471  | Aadhunika Malayala Kavitha                         | ML 1441        | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 472  | Globalisation and Political<br>Systems (EL)        | PS 1651.1      | 2020-21          | Elective<br>Course | ,Bachelor          | political science                                     |
| 473  | ATMANAGH<br>AVASTHACHACATUSTAYAM                   | SV 1641        | 2020-21          | Core<br>Course     | ,Bachelor          | DEPARTMENT (<br>SANSKRIT                              |

|      |  | Course  | Academic | Type of            | Level of  | Course Offerir<br>Department/<br>Centre/ Unit |
|------|--|---------|----------|--------------------|-----------|---|
| Srno | Title of Course  | Code    | Year     | Course             | Course    | Name  |
| 474  | Project  | PS 1645 | 2020-21  | Core<br>Course     | ,Bachelor | political science                             |
| 475  | KERALA CONTRIBUTION TO<br>VENDA  | SV 1642 | 2020-21  | Core<br>Course     | ,Bachelor | DEPARTMENT (<br>SANSKRIT                      |
| 476  | Nirupana Sahithaym   | ML 1442 | 2020-21  | Core<br>Course     | Bachelor  | MALAYALAM                                     |
| 477  | SPASTA- BRAHMALINGA-<br>VEDANTHA VAKYANI   | SV 1643 | 2020-21  | Core<br>Course     | ,Bachelor | DEPARTMENT (<br>SANSKRIT                      |
| 478  | Nirupana Sahithaym   | ML 1442 | 2021-22  | Core<br>Course     | Bachelor  | MALAYALAM                                     |
| 479  | ASPASHTA- BRAHMALINGA-<br>VEDANTA VAKYANI  | SV 1644 | 2020-21  | Core<br>Course     | ,Bachelor | DEPARTMENT (<br>SANSKRIT                      |
| 480  | MIMASA PARICHAYAH  | SV 1661 | 2020-21  | Elective<br>Course | ,Bachelor | DEPARTMENT (<br>SANSKRIT                      |
| 481  | Methodology Perspectives of Social Science   | PS 1141 | 2021-22  | Core<br>Course     | ,Bachelor | political science                             |
| 482  | PROJECT  | SV 1646 | 2020-21  | Core<br>Course     | ,Bachelor | DEPARTMENT (<br>SANSKRIT                      |
| 483  | Angiosperm Morphology Systematic botany Economic botany Ethno botany and Pharmacognosy | BO1541  | 2020-21  | Core<br>Course     | Bachelor  | Botany  |
| 484  | Cyber politics   | PS 1321 | 2021-22  | Core<br>Course     | ,Bachelor | political science                             |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 485  | Environmental Studies and Phytogeography                 | BO1542         | 2020-21          | Core<br>Course     | Bachelor           | Botany  |
| 486  | Indian Constitution                                      | PS 1341        | 2021-22          | Core<br>Course     | Bachelor           | political science                                     |
| 487  | Dynamics of Indian Political<br>System                   | PS 1441        | 2021-22          | Core<br>Course     | ,Bachelor          | political science                                     |
| 488  | Introduction to Comparitive<br>Politics                  | PS 1442        | 2021-22          | Core<br>Course     | ,Bachelor          | political science                                     |
| 489  | Public administration                                    | PS 1541        | 2021-22          | Core<br>Course     | ,Bachelor          | political science                                     |
| 490  | Ancient and Medieval Political<br>Thought                | PS 1542        | 2021-22          | Core<br>Course     | ,Bachelor          | political science                                     |
| 491  | Cell biology genetics and evolutionary biology           | BO1543         | 2020-21          | Core<br>Course     | ,Bachelor          | Botany  |
| 492  | Horticulture open course                                 | BO1551.1       | 2020-21          | Elective<br>Course | ,Bachelor          | Botany  |
| 493  | Plant Physiology and<br>Biochemistry                     | BO1641         | 2020-21          | Core<br>Course     | ,Bachelor          | Botany  |
| 494  | Molecular biology general informatics and bioinformatics | BO1642         | 2020-21          | Core<br>Course     | ,Bachelor          | Botany  |
| 495  | Plant breeding Horticulture and Research methodology     | BO1643         | 2020-21          | Core<br>Course     | ,Bachelor          | Botany  |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 496  | Biotechnology and Nano<br>biotechnology elective                                  | BO1651         | 2020-21          | Elective<br>Course | ,Bachelor          | Botany  |
| 497  | Phycology Mycology Microbiology and Plant Pathology                               | BO 211         | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 498  | Bryophyta Pteridophyta and<br>Gymnosperms   | BO212          | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 499  | Histology Reproductive Biology<br>Microtechnique and<br>Histochemistry            | BO213          | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 500  | Taxonomy of Angiosperms<br>Economic Botany and<br>Ethnobotany                     | BO 221         | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 501  | Environmental Biology Forest<br>Botany Phytogeography and<br>Conservation Biology | BO 222         | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 502  | Cell Biology Genetics and Evolution   | BO 223         | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 503  | Plant Breeding Horticulture and<br>Biostatistics                                  | BO 231         | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 504  | Biochemistry Plant Physiology<br>and Research Methodology                         | BO 232         | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 505  | Molecular Biology Immunology and Plant Biotechnology                              | BO 233         | 2020-21          | Core<br>Course     | ,Master            | Botany  |
| 506  | Special Paper I Bioinformatics and Biophysics                                     | BO 241         | 2020-21          | Core<br>Course     | ,Master            | Botany  |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offering Department/Centre/Unit |
|------|---|----------------|------------------|-------------------|--------------------|--|
| 507  | Special Paper II Elective<br>Biotechnology  | BO 242a        | 2020-21          | Core<br>Course    | ,Master            | Botany                                 |
| 508  | Angiosperm anatomy<br>Reproductive Botany and<br>Palynology                                     | BO1141         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 509  | Methodology and Perspectives in Plant Science   | BO1221         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 510  | Microbiology Phycology Mycology<br>Lichenology and Plant Pathology                              | BO1341         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 511  | Bryology Pteridology<br>Gymnosperms and Paleobotany   | BO1441         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 512  | Angiosperm Morphology<br>Systematic botany Economic<br>botany Ethno botany and<br>Pharmacognosy | BO1541         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 513  | Environmental Studies and Phytogeography  | BO1542         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 514  | Cell Biology Genetics and Evolutionary Biology  | BO1543         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 515  | Horticulture  | BO1551.1       | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 516  | Plant Physiology and<br>Biochemistry  | BO1641         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |
| 517  | Molecular Biology General informatics and Bioinformatics  | BO1642         | 2021-22          | Core<br>Course    | ,Bachelor          | Botany                                 |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 518  | Plant breeding Horticulture and Research methodology                              | BO1643         | 2021-22          | Core<br>Course     | ,Bachelor          | Botany  |
| 519  | Biotechnology and Nano<br>biotechnology   | BO1651         | 2021-22          | Elective<br>Course | ,Bachelor          | Botany  |
| 520  | Phycology Mycology Microbiology and Plant Pathology                               | BO 211         | 2021-22          | Core<br>Course     | ,Master            | Botany  |
| 521  | Bryophyta Pteridophyta and<br>Gymnosperms   | BO212          | 2021-22          | Core<br>Course     | ,Master            | Botany  |
| 522  | Histology Reproductive Biology<br>Microtechnique and<br>Histochemistry            | BO213          | 2021-22          | Core<br>Course     | ,Master            | Botany  |
| 523  | Environmental Biology Forest<br>Botany Phytogeography and<br>Conservation Biology | BO 222         | 2021-22          | Core<br>Course     | ,Master            | Botany  |
| 524  | Cell Biology Genetics Evolution   | BO 223         | 2021-22          | Core<br>Course     | ,Master            | Botany  |
| 525  | Plant Breeding Horticulture<br>Biostatistics                                      | BO 231         | 2021-22          | Core<br>Course     | ,Master            | Botany  |
| 526  | Biochemistry Plant Physiology<br>Research Methodology                             | BO 232         | 2021-22          | Core<br>Course     | ,Master            | Botany  |
| 527  | Molecular Biology Immunology<br>Plant Biotechnology                               | BO 233         | 2021-22          | Core<br>Course     | ,Master            | Botany  |
| 528  | Special Paper I Bioinformatics and Biophysics                                     | BO 241         | 2021-22          | Core<br>Course     | Master             | Botany  |

| Srno | Title of Course                                  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 529  | Special Paper II Elective<br>Biotechnology       | BO 242a        | 2021-22          | Elective<br>Course |                    | Botany  |
| 530  | Basha Shasthram                                  | ML 1541        | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 531  | Basha Shasthram                                  | ML 1541        | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 532  | Cherukadha Padanam                               | ML 1542        | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 533  | Cherukadha Padanam                               | ML 1542        | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 534  | Vivarthanam Sidhanthavum<br>Prayogavum           | ML 1543        | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 535  | Vivarthanam Sidhanthavum<br>Prayogavum           | ML 1543        | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 536  | Jeevacharithram Aathmakadha<br>Sancharasahithyam | ML 1544        | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 537  | Jeevacharithram Aathmakadha<br>Sancharasahithyam | ML 1544        | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 538  | Malayalam Bhasha Sahithya<br>Charithram 1        | ML 1545        | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM   |
| 539  | Malayalam Bhasha Sahithya<br>Charithram 1        | ML 1545        | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM   |

| Srno | Title of Course                            | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 540  | Malayalam Bhasha Sahithya<br>Charithram II | ML 1641        | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 541  | Malayalam Bhasha Sahithya<br>Charithram II | ML 1641        | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 542  | Malayala Vyakaranam                        | ML 1642        | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 543  | Malayala Vyakaranam                        | ML 1642        | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 544  | Aadhunika Poorva Malayala<br>Kavitha       | ML 1643        | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 545  | Aadhunika Poorva Malayala<br>Kavitha       | ML 1643        | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 546  | Naattarivu Padanam                         | ML 1644        | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 547  | Naattarivu Padanam                         | ML 1644        | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM   |
| 548  | Praaacheena Sahithyam                      | ML 211         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 549  | Praaacheena Sahithyam                      | ML 211         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 550  | Madhyakala Sahithyam                       | ML 212         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |

| Srno | Title of Course                                | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 551  | Madhyakala Sahithyam                           | ML 212         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 552  | Kerala Sahithyam                               | ML 213         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 553  | Reporting                                      | JC 1142        | 2020-21          | Core<br>Course    | Bachelor           | Journalism  |
| 554  | Kerala Sahithyam                               | ML 213         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 555  | Introduction to Environmental<br>Studies       | JC 1241        | 2020-21          | Core<br>Course    | ,Bachelor          | English   |
| 556  | Introduction to Literary Studies I (<br>I sem) | EN1141         | 2020-21          | Core<br>Course    | ,Bachelor          | English   |
| 557  | Introduction to Literary Studies I             | EN 1241        | 2020-21          | Core<br>Course    | ,Bachelor          | English   |
| 558  | British literature I ( III sem)                | EN1341         | 2020-21          | Core<br>Course    | ,Bachelor          | English   |
| 559  | British literature II (IV sem)                 | EN1441         | 2020-21          | Core<br>Course    | ,Bachelor          | English   |
| 560  | British literature II (IV sem)                 | EN1441         | 2020-21          | Core<br>Course    | ,Bachelor          | English   |
| 561  | Literature of the 20th Century IV sem          | EN1442         | 2020-21          | Core<br>Course    | ,Bachelor          | English   |

| Srno | Title of Course                                     | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offering Department/Centre/Unit |
|------|---|----------------|------------------|--------------------|--------------------|--|
| 562  | Literary Criticism Vsem                             | EN1541         | 2020-21          | Core<br>Course     | ,Bachelor          | English                                |
| 563  | Methodology and Perspective of<br>Humanities VI sem | EN1642         | 2020-21          | Core<br>Course     | ,Bachelor          | English                                |
| 564  | Womens Writing VI sem                               | EN1644         | 2020-21          | Core<br>Course     | ,Bachelor          | English                                |
| 565  | Advertising Sem IV                                  | JC 1442        | 2020-21          | Core<br>Course     | ,Bachelor          | English                                |
| 566  | Media Laws and ethics Sem V                         | JC 1543        | 2020-21          | Core<br>Course     | ,Bachelor          | Journalism                             |
| 567  | PR and Corporate Communication<br>Sem IV            | JC 1441        | 2020-21          | Core<br>Course     | ,Bachelor          | Journalism                             |
| 568  | Introduction to Literary Studies I<br>Sem I         | EML 1131       | 2020-21          | Core<br>Course     | ,Bachelor          | English                                |
| 569  | Creative writing                                    | EN 1331.3      | 2020-21          | Elective<br>Course |                    | English                                |
| 570  | Art and Literary Aesthetics( II sem)                | EN 1231        | 2020-21          | Elective<br>Course | ,Bachelor          | English                                |
| 571  | Malayala Vyakaranam                                 | ML 214         | 2020-21          | Core<br>Course     | Master             | MALAYALAM                              |
| 572  | Malayala Vyakaranam                                 | ML 214         | 2021-22          | Core<br>Course     | Master             | MALAYALAM                              |

| Srno | Title of Course                              | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 573  | Inorganic Chemistry I                        | CH1141         | 2020-21          | Core<br>Course    | Bachelor           | CHEMISTRY   |
| 574  | Aadhunika Sahithyam-Gadhyam                  | ML 221         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 575  | Chemistry Its origin methodology and impacts | CH 1221        | 2020-21          | Core<br>Course    | Bachelor           | CHEMISTRY   |
| 576  | Aadhunika Sahithyam-Gadhyam                  | ML 221         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 577  | Aadhunika Sahithyam-Padhyam                  | ML 222         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 578  | Inorganic Chemistry II                       | CH1341         | 2020-21          | Core<br>Course    | Bachelor           | CHEMISTRY   |
| 579  | HISTORY OF HINDI LITERATURE<br>MODERN PERIOD | HL223          | 2020-21          | Core<br>Course    | Master             | Hindi   |
| 580  | Aadhunika Sahithyam Padhyam                  | ML 222         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 581  | Bharathiyakavyameemamsa                      | ML 223         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 582  | FUNCTIONAL HINDI                             | HL224          | 2020-21          | Core<br>Course    | Master             | Hindi   |
| 583  | Bharathiyakavyameemamsa                      | ML 223         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |

| Srno | Title of Course                      | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--------------------------------------|----------------|------------------|-------------------|--------------------|---|
| 584  | MODERN POETRY UPTO PRAGATIVAD        | HL231          | 2020-21          | Core<br>Course    | ,Master            | Hindi   |
| 585  | Bharathiyakavyameemamsa              | ML 223         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 586  | Organic Chemistry I                  | CH1441         | 2020-21          | Core<br>Course    | Bachelor           | CHEMISTRY   |
| 587  | PROSE -ESSAY AND OTHER PROSE FORMS   | HL232          | 2020-21          | Core<br>Course    | ,Master            | Hindi   |
| 588  | Sahithyameemamsa Paschathyam         | ML 224         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 589  | INDIAN LITERATURE                    | HL233          | 2020-21          | Core<br>Course    | ,Master            | Hindi   |
| 590  | Sahithyameemamsa Paschathyam         | ML 224         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 591  | Lab I Inorganic Qualitative analysis | CH1442         | 2020-21          | Core<br>Course    | Bachelor           | CHEMISTRY   |
| 592  | Samakaalikasahithyam Gadhyam         | ML 231         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 593  | Samakaalikasahithyam Gadhyam         | ML 231         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 594  | SPECIAL AUTHOR PREMCHAND             | HL234          | 2020-21          | Core<br>Course    | ,Master            | Hindi   |

| Srno | Title of Course                    | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|------------------------------------|----------------|------------------|-------------------|--------------------|---|
| 595  | Sahithyacharithraviknjaneeyam      | ML 232         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 596  | MODERN POETRY SINCE<br>PRAYOGVAD   | HL241          | 2020-21          | Core<br>Course    | ,Master            | Hindi   |
| 597  | Sahithyacharithraviknjaneeyam      | ML 232         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 598  | Physical Chemistry I               | CH1541         | 2021-22          | Core<br>Course    | Bachelor           | CHEMISTRY   |
| 599  | DRAMA AND ONE ACT PLAYS            | HL242          | 2020-21          | Core<br>Course    | ,Master            | Hindi   |
| 600  | Physical Chemistry I               | CH1541         | 2020-21          | Core<br>Course    | Bachelor           | CHEMISTRY   |
| 601  | TRANSLATION AND STRUCTURAL GRAMMAR | HL243          | 2020-21          | Core<br>Course    | ,Master            | Hindi   |
| 602  | Malayalavimarshanam                | ML 234         | 2020-21          | Core<br>Course    | Master             | MALAYALAM   |
| 603  | Malayalavimarshanam                | ML 234         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 604  | Samakaalikasahithyam- Padhyam      | ML 241         | 2021-22          | Core<br>Course    | Master             | MALAYALAM   |
| 605  | Inorganic Chemistry III            | CH1542         | 2020-21          | Core<br>Course    | Bachelor           | CHEMISTRY   |

| Srno | Title of Course                      | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerin<br>Department/<br>Centre/ Unit<br>Name |
|------|--------------------------------------|----------------|------------------|--------------------|--------------------|---|
| 606  | Inorganic Chemistry III              | CH1542         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 607  | COMPARATIVE LITERATURE               | HL244(A)       | 2020-21          | Elective<br>Course | ,Master            | Hindi   |
| 608  | Samakaalikasahithyam- Padhyam        | ML 241         | 2020-21          | Core<br>Course     | Master             | MALAYALAM   |
| 609  | SOUTH INDIAN LITERATURE              | HL244(B)       | 2020-21          | Elective<br>Course | ,Master            | Hindi   |
| 610  | Aadhinikabhaashashasthram            | ML244          | 2021-22          | Core<br>Course     | Master             | MALAYALAM   |
| 611  | Organic Chemistry II                 | CH1543         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 612  | Aadhinikabhaashashasthram            | ML 243         | 2020-21          | Core<br>Course     | Master             | MALAYALAM   |
| 613  | Organic Chemistry II                 | CH1543         | 2020-21          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 614  | HINDI KATHETHAR GADYA<br>SAHITYA     | HN1141         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 615  | Lab II Inorganic Volumetric analysis | CH1544         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 616  | Lab II Inorganic Volumetric analysis | CH1544         | 2020-21          | Core<br>Course     | Bachelor           | CHEMISTRY   |

| Srno | Title of Course                              | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 617  | Lab III Physical Chemistry<br>Experiments    | CH1545         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 618  | Lab III Physical Chemistry<br>Experiments    | CH1545         | 2020-21          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 619  | Tarathamyasahithyam                          | ML244          | 2020-21          | Core<br>Course     | Master             | MALAYALAM   |
| 620  | Tarathamyasahithyam                          | ML244          | 2021-22          | Core<br>Course     | Master             | MALAYALAM   |
| 621  | Inorganic Chemistry I                        | CH1141         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 622  | Chemistry Its origin methodology and impacts | CH 1221        | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 623  | Inorganic Chemistry II                       | CH1341         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 624  | Lab I Inorganic Qualitative analysis         | CH1442         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 625  | Organic Chemistry I                          | CH1441         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 626  | Environmental Chemistry                      | CH1551.3       | 2021-22          | Elective<br>Course | Bachelor           | CHEMISTRY   |
| 627  | Environmental Chemistry                      | CH1551.3       | 2020-21          | Elective<br>Course | Bachelor           | CHEMISTRY   |

| Srno | Title of Course                                  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 628  | Physical Chemistry II                            | CH1641         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 629  | Physical Chemistry II                            | CH1641         | 2020-21          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 630  | Organic Chemistry III                            | CH1642         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 631  | Organic Chemistry III                            | CH1642         | 2020-21          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 632  | Physical Chemistry III                           | CH1643         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 633  | Physical Chemistry III                           | CH1643         | 2020-21          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 634  | Lab IV Organic Chemistry<br>Experiments          | CH1644         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 635  | Lab IV Organic Chemistry<br>Experiments          | CH1644         | 2020-21          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 636  | Lab V Gravimetric experiments                    | CH1645         | 2021-22          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 637  | Lab V Gravimetric experiments                    | CH1645         | 2020-21          | Core<br>Course     | Bachelor           | CHEMISTRY   |
| 638  | Supramolecular Nano particles<br>Green Chemistry | CH1661.1       | 2021-22          | Elective<br>Course | Bachelor           | CHEMISTRY   |

| Srno | Title of Course                                  | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 639  | Supramolecular Nano particles<br>Green Chemistry | CH1661.1       | 2020-21          | Elective<br>Course | Bachelor           | CHEMISTRY   |
| 640  | Inorganic Chemistry I                            | CL 211         | 2021-22          | Core<br>Course     | Master             | CHEMISTRY   |
| 641  | Inorganic Chemistry I                            | CL 211         | 2020-21          | Core<br>Course     | Master             | CHEMISTRY   |
| 642  | Organic Chemistry I                              | CL 212         | 2021-22          | Core<br>Course     | Master             | CHEMISTRY   |
| 643  | Organic Chemistry I                              | CL 212         | 2020-21          | Core<br>Course     | Master             | CHEMISTRY   |
| 644  | Physical Chemistry I                             | CL 213         | 2021-22          | Core<br>Course     | Master             | CHEMISTRY   |
| 645  | Physical Chemistry I                             | CL 213         | 2020-21          | Core<br>Course     | Master             | CHEMISTRY   |
| 646  | Inorganic Chemistry Practicals I                 | CL214          | 2020-21          | Core<br>Course     | Master             | CHEMISTRY   |
| 647  | Inorganic Chemistry Practicals I                 | CL214          | 2021-22          | Core<br>Course     | Master             | CHEMISTRY   |
| 648  | Organic Chemistry Practicals I                   | CL 215         | 2020-21          | Core<br>Course     | Master             | CHEMISTRY   |
| 649  | Organic Chemistry Practicals I                   | CL 215         | 2021-22          | Core<br>Course     | Master             | CHEMISTRY   |

| Srno | Title of Course                 | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---------------------------------|----------------|------------------|-------------------|--------------------|---|
| 650  | Physical Chemistry Practicals I | CL 216         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 651  | Physical Chemistry Practicals I | CL 216         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 652  | Inorganic Chemistry II          | CL 221         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 653  | Inorganic Chemistry II          | CL 221         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 654  | Organic Chemistry II            | CL 222         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 655  | Organic Chemistry II            | CL 222         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 656  | Physical Chemistry II           | CL 223         | 2020-21          | Core<br>Course    |                    | CHEMISTRY   |
| 657  | Physical Chemistry II           | CL 223         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 658  | Inorganic Chemistry III         | CL 231         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 659  | Inorganic Chemistry III         | CL 231         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 660  | Organic Chemistry III           | CL 232         | 2020-21          | Core<br>Course    | Master             | Chemistry   |

| Srno | Title of Course                   | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|-----------------------------------|----------------|------------------|-------------------|--------------------|---|
| 661  | Organic Chemistry III             | CL 232         | 2021-22          | Core<br>Course    | Master             | Chemistry   |
| 662  | Physical Chemistry III            | CL 233         | 2020-21          | Core<br>Course    | Master             | Chemistry   |
| 663  | Physical Chemistry III            | CL 233         | 2021-22          | Core<br>Course    | Master             | Chemistry   |
| 664  | Inorganic Chemistry Practicals II | CL 234         | 2021-22          | Core<br>Course    | Master             | Chemistry   |
| 665  | Inorganic Chemistry Practicals II | CL 234         | 2020-21          | Core<br>Course    | Master             | Chemistry   |
| 666  | Organic Chemistry Practicals II   | CL 235         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 667  | Organic Chemistry Practicals II   | CL 235         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 668  | Physical Chemistry Practicals II  | CL 236         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 669  | Physical Chemistry Practicals II  | CL 236         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 670  | Chemistry of Advanced Materials   | CL 241         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 671  | Chemistry of Advanced Materials   | CL 241         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |

| Srno | Title of Course                              | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 672  | Applied Analytical Chemistry                 | CL 242         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 673  | Applied Analytical Chemistry                 | CL 242         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 674  | Inorganic Chemistry I                        | CH 211         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 675  | Inorganic Chemistry I                        | CH 211         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 676  | Organic Chemistry I                          | CH 212         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 677  | Organic Chemistry I                          | CH 212         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 678  | Physical Chemistry I                         | CH 213         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 679  | Physical Chemistry I                         | CH 213         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 680  | HINDI SAHITYA KA ITIHAS RITIKAL<br>TAK       | HN 1241        | 2021-22          | Core<br>Course    | Bachelor           | Hindi   |
| 681  | HISTORY OF HINDI LITERATURE<br>MODERN PERIOD | HN1341         | 2021-22          | Core<br>Course    | ,Bachelor          | Hindi   |
| 682  | HINDI DRAMA AND ONE ACT<br>PLAYS             | HN1441         | 2021-22          | Core<br>Course    | ,Bachelor          | Hindi   |

| Srno | Title of Course                             | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 683  | PREMCHANDS FICTION                          | HN1442         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 684  | ANCIENT POETRY                              | HN1541         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 685  | MODERN POETRY                               | HN1542         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 686  | HINDI FICTION FROM 1980 TO<br>2000          | HN1543         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 687  | HINDI GRAMMAR THEORY AND PRACTICE           | HN1544         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 688  | HISTORY OF HINDI LANGUAGE<br>AND PRACTICE   | HN1545         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 689  | POST MODERN HINDI FICTION<br>SINCE 1980     | HN1641         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 690  | LITERARY CRITICISM                          | HN1642         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 691  | TRANSLATION THEORY AND PRACTICE             | HN1643         |                  | Core<br>Course     | ,Bachelor          | Hindi   |
| 692  | FILM HISTORY AND PRODUCTION                 | HN1644         | 2021-22          | Core<br>Course     | ,Bachelor          | Hindi   |
| 693  | JOURNALISM AND HINDI<br>JOURALISM IN KERALA | HN1651         | 2021-22          | Elective<br>Course | ,Bachelor          | Hindi   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 694  | HINDI POETRY ANCIENT AND<br>MEDIEVAL PERIOD                    | HLCC211        | 2021-22          | Core<br>Course    | ,Master            | Hindi   |
| 695  | HINDI FICTION AND OTHER PROS<br>FORMS                          | HLCC212        | 2021-22          | Core<br>Course    | ,Master            | Hindi   |
| 696  | HISTORY OF HINDI LITERATURE<br>ANCIENT AND MEDIEVAL PERIOD     | HLCC213        | 2021-22          | Core<br>Course    | ,Bachelor          | Hindi   |
| 697  | GRAMMAR AND STRUCTURE OF<br>HINDI LANGUAGE                     | HLCC214        |                  | Core<br>Course    | ,Bachelor          | Hindi   |
| 698  | INDIAN AND WESTERN LITERARY<br>THOUGHTS PROSODY AND<br>POETICS | HLCC221        | 2021-22          | Core<br>Course    | ,Master            | Hindi   |
| 699  | HISTORY OF HINDI LANGUAGE<br>AND LINGUISTICS                   | HLCC222        | 2021-22          | Core<br>Course    | ,Master            | Hindi   |
| 700  | HISTORY OF HINDI LITERATURE<br>MODERN PERIOD                   | HLCC223        | 2020-21          | Core<br>Course    | ,Master            | Hindi   |
| 701  | DRAMA AND ONE ACT PLAYS  | HLCC224        | 2020-21          | Core<br>Course    | ,Master            | Hindi   |
| 702  | MODERN POETRY UPTO PRAGATIVAD                                  | HL231          | 2021-22          | Core<br>Course    | ,Master            | Hindi   |
| 703  | PROSE -ESSAY AND OTHER PROSE FORMS                             | HL232          | 2021-22          | Core<br>Course    | ,Master            | Hindi   |
| 704  | INDIAN LITERATURE  | HL233          | 2021-22          | Core<br>Course    | ,Master            | Hindi   |

| Srno | Title of Course                      | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--------------------------------------|----------------|------------------|--------------------|--------------------|---|
| 705  | SPECIAL AUTHOR PREMCHAND             | HL234          | 2021-22          | Core<br>Course     | ,Master            | Hindi   |
| 706  | MODERN POETRY SINCE<br>PRAYOGVAD     | HL241          | 2021-22          | Core<br>Course     | ,Master            | Hindi   |
| 707  | DRAMA AND ONE ACT PLAYS              | HL242          | 2021-22          | Core<br>Course     | ,Master            | Hindi   |
| 708  | TRANSLATION AND STRUCTURAL GRAMMAR   | HL243          | 2021-22          | Core<br>Course     | ,Master            | Hindi   |
| 709  | COMPARATIVE LITERATURE               | HL244(A)       | 2021-22          | Elective<br>Course | ,Master            | Hindi   |
| 710  | SOUTH INDIAN LITERATURE              | HL 244(B)      | 2021-22          | Elective<br>Course | ,Master            | Hindi   |
| 711  | Indian Literature in English         | EN1542         | 2020-21          | Core<br>Course     | Bachelor           | English   |
| 712  | Film Studies                         | EN1543         | 2020-21          | Core<br>Course     | ,Bachelor          | English   |
| 713  | Linguistics and Phonetics V sem      | EN1544         | 2020-21          | Core<br>Course     | ,Bachelor          | English   |
| 714  | Post Colonial Literatures in English | EN 1545        | 2020-21          | Core<br>Course     | ,Bachelor          | English   |
| 715  | World Classics VI                    | EN1641         | 2020-21          | Core<br>Course     | ,Bachelor          | English   |

| Srno | Title of Course                                  | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 716  | World Classics                                   | EN1641         | 2020-21          | Core<br>Course    | ,Bachelor          | English   |
| 717  | Introduction to Environmental<br>Studies         | JC 1241        | 2020-21          | Core<br>Course    |                    | Journalism  |
| 718  | Magazine Journalism Sem III                      | JC 1341        | 2020-21          | Core<br>Course    | ,Bachelor          | Journalism  |
| 719  | American Literature                              | EL 223         | 2020-21          | Core<br>Course    | ,Master            | English   |
| 720  | American Literature                              | EL 223         | 2020-21          | Core<br>Course    | ,Bachelor          | English   |
| 721  | Lingustics and Structure of the English Language | EL 231         | 2020-21          | Core<br>Course    | ,Master            | English   |
| 722  | METHODOLOGY AND PERSPECTIVES OF HUMANITIES       | PL1141         | 2020-21          | Core<br>Course    | ,Bachelor          | Philosophy  |
| 723  | PHILOSOPHIC THEMES AND METHODS                   | PL1241         | 2020-21          | Core<br>Course    | ,Bachelor          | Philosophy  |
| 724  | INFORMATICS AND PHILOSOPHY                       | PL1321         | 2020-21          | Core<br>Course    | ,Bachelor          | Pholosophy  |
| 725  | DEDUCTIVE LOGIC                                  | PL1341         | 2020-21          | Core<br>Course    | ,Bachelor          | Philosophy  |
| 726  | INDUCTION AND SCIENTIFIC METHOD                  | PL1441         | 2020-21          | Core<br>Course    | ,Bachelor          | Philosophy  |

| Srno | Title of Course                            | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 727  | EARLY INDIAN PHILOSOPHY                    | PL1442         | 2020-21          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 728  | ANCIENT AND MEDIEVAL<br>WESTERN PHILOSOPHY | PL1541         | 2020-21          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 729  | ORTHODOX SYSTEMS OF INDIAN PHILOSOPHY      | PL1542         | 2020-21          | Elective<br>Course | ,Bachelor          | Philosophy  |
| 730  | INTRODUCTION TO ETHICS                     | PL1543         | 2020-21          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 731  | MODERN WESTERN PHILOSOPHY                  | PL1544         | 2020-21          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 732  | Inorganic Chemistry Practicals I           | CH 214         | 2020-21          | Core<br>Course     | Master             | Chemistry   |
| 733  | Inorganic Chemistry Practicals I           | CH 214         | 2021-22          | Core<br>Course     | Master             | Chemistry   |
| 734  | Organic Chemistry Practicals I             | CH 215         | 2020-21          | Core<br>Course     | Master             | Chemistry   |
| 735  | Organic Chemistry Practicals I             | CH 215         | 2021-22          | Core<br>Course     | Master             | Chemistry   |
| 736  | Physical Chemistry Practicals I            | CH 216         | 2020-21          | Core<br>Course     | Master             | Chemistry   |
| 737  | Physical Chemistry Practicals I            | CH 216         | 2021-22          | Core<br>Course     | Master             | Chemistry   |

| Srno | Title of Course         | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|-------------------------|----------------|------------------|-------------------|--------------------|---|
| 738  | Inorganic Chemistry II  | CH 221         | 2020-21          | Core<br>Course    | Master             | Chemistry   |
| 739  | Inorganic Chemistry II  | CH 221         | 2021-22          | Core<br>Course    | Master             | Chemistry   |
| 740  | Organic Chemistry II    | CH 222         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 741  | Organic Chemistry II    | CH 222         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 742  | Physical Chemistry II   | CH 223         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 743  | Physical Chemistry II   | CH 223         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 744  | Inorganic Chemistry III | CH 231         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 745  | Inorganic Chemistry III | CH 231         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 746  | Organic Chemistry III   | CH 232         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 747  | Organic Chemistry III   | CH 232         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 748  | Physical Chemistry III  | CH 233         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |

| Srno | Title of Course                   | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|-----------------------------------|----------------|------------------|-------------------|--------------------|---|
| 749  | Physical Chemistry III            | CH 233         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 750  | Inorganic Chemistry Practicals II | CH 234         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 751  | Inorganic Chemistry Practicals II | CH 234         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 752  | Organic Chemistry Practicals II   | CH 235         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 753  | Organic Chemistry Practicals II   | CH 235         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 754  | Physical Chemistry Practicals II  | CH 236         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 755  | Physical Chemistry Practicals II  | CH 236         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 756  | Chemistry of Advanced Materials   | CH 241         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |
| 757  | Chemistry of Advanced Materials   | CH 241         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 758  | Applied Analytical Chemistry      | CH 242         | 2020-21          | Core<br>Course    | Master             | CHEMISTRY   |
| 759  | Applied Analytical Chemistry      | CH 242         | 2021-22          | Core<br>Course    | Master             | CHEMISTRY   |

| Srno | Title of Course                                     | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 760  | Vivarasankethikavidyayum<br>Malayalabhashapadanavum | EML 1121       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 761  | Vivarasankethikavidyayum<br>Malayalabhashapadanavum | EML 1121       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 762  | Aadhunikakavitha                                    | EML 1141       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 763  | Aadhunikakavitha                                    | EML 1141       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 764  | Kerala padanam 1                                    | EML 1142       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 765  | Kerala padanam 1                                    | EML 1142       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 766  | Novel Sahithyam                                     | EML 1241       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 767  | Novel Sahithyam                                     | EML 1241       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 768  | Kerala padanam 2                                    | EML 1242       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 769  | Kerala padanam 2                                    | EML 1242       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 770  | Malayalanadakasahithyam                             | EML 1341       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |

| Srno | Title of Course                        | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 771  | Malayalanadakasahithyam                | EML 1341       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 772  | Malayalabhasha<br>sahithyacharithram 1 | EML 1342       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 773  | Malayalabhasha<br>sahithyacharithram 1 | EML 1342       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 774  | Bharatheeyabhshashasthram              | EML 1441       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 775  | Bharatheeyabhshashasthram              | EML 1441       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 776  | Malayalabhasha<br>sahithyacharithram 2 | EML 1442       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 777  | Malayalabhasha<br>sahithyacharithram 2 | EML 1442       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 778  | Aadhunikapoorvakavitha                 | EML 1541       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 779  | Aadhunikapoorvakavitha                 | EML 1541       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 780  | Cherukadha padanam                     | EML 1542       | 2020-21          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 781  | Cherukadha padanam                     | EML 1542       | 2021-22          | Core<br>Course    | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 782  | Malayala Vyakaranam   | EML 1641       | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 783  | Malayala Vyakaranam   | EML 1641       | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 784  | Malayala Vyakaranam   | EML 1641       | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 785  | Pourathyasahithyameemamsayum<br>Malayalaniroopanavum            | EML 1642       | 2020-21          | Core<br>Course     | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 786  | Pourathyasahithyameemamsayum<br>Malayalaniroopanavum            | EML 1642       | 2021-22          | Core<br>Course     | Bachelor           | MALAYALAM<br>ENGLISH<br>DOUBLE MAIN                   |
| 787  | BIOINSTRUMENTATION MEDICAL<br>BIOCHEMISTRY AND<br>BIOSTATISTICS | GEN I          | 2020-21          | Core<br>Course     | Diploma            | ZOOLOGY   |
| 788  | HUMAN PHYSIOLOGY<br>PARASITOLOGY MEDICAL<br>MICROBIOLOGY        | GEN II         | 2020-21          | Core<br>Course     | Diploma            | ZOOLOGY   |
| 789  | BIOMEDICAL INSTRUMENTATION TECHNOLOGY                           | SPI            | 2020-21          | Elective<br>Course | Diploma            | ZOOLOGY   |
| 790  | TRAINING -CUM-PROJECT   | TPI            | 2020-21          | Elective<br>Course | Diploma            | ZOOLOGY   |
| 791  | BIOINSTRUMENTATION MEDICAL<br>BIOCHEMISTRY AND<br>BIOSTATISTICS | GEN I          | 2021-22          | Core<br>Course     | Diploma            | ZOOLOGY   |
| 792  | HUMAN PHYSIOLOGY<br>PARASITOLOGY MEDICAL<br>MICROBIOLOGY        | GEN II         | 2021-22          | Core<br>Course     | Diploma            | ZOOLOGY   |

| Srno | Title of Course                            | Course<br>Code                              | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerin<br>Department/<br>Centre/ Unit<br>Name |
|------|--|---|------------------|--------------------|--------------------|---|
| 793  | BIOMEDICAL INSTRUMENTATION TECHNOLOGY      | SP I  | 2021-22          | Elective<br>Course | Diploma            | ZOOLOGY   |
| 794  | TRAINING-CUM-PROJECT                       | TPI   | 2021-22          | Elective<br>Course | Diploma            | ZOOLOGY   |
| 795  | ANCIENT AND MEDIEVAL POLITICAL PHILOSOPHY  | PL1545                                      | 2020-21          | Core<br>Course     | Bachelor           | Philosophy  |
| 796  | FUNDAMENTALS OF LOGICAL<br>REASONING       | PL1551.1                                    | 2020-21          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 797  | SYMBOLIC LOGIC                             | PL1641                                      | 2020-21          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 798  | APLIED ETHICS                              | PL1642                                      | 2020-21          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 799  | RECENT TRENDS IN WESTERN PHILOSOPHY        | PL1643                                      | 2020-21          | Core<br>Course     |                    | Philosophy  |
| 800  | METHODOLOGY AND PERSPECTIVES OF HUMANITIES | PL1141                                      | 2021-22          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 801  | PHILOSOPHIC THEMES AND METHODS             | PL1241                                      | 2021-22          | Core<br>Course     | ,Bachelor          | Philosophy  |
| 802  | Modern Western Political<br>Thought        | 16-11-2020<br>to 24-3-<br>2021(102<br>days) | 2020-21          | Core<br>Course     | Master             | Political science                                     |
| 803  | VEDANTHA SIKSHANARITI (2nd<br>Sem)         | SV 1241                                     | 2021-22          | Core<br>Course     | Bachelor           | SANSKRIT  |

| Srno | Title of Course                                 | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offering Department/Centre/Unit                      |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 804  | Contemporary Political Theory                   | ps 512         | 2020-21          | Core<br>Course    | ,Master            | Political Science   |
| 805  | Indian Government and Politics                  | ps 513         | 2020-21          | Core<br>Course    | ,Master            | Political Science<br>16-11-2020 to<br>3-2021(102 day        |
| 806  | Comparative Politics                            | PS521          | 2020-21          | Core<br>Course    | ,Master            | Political Science<br>16-11-2020 to<br>3-2021(102 day        |
| 807  | Theories and Concepts of Public administration  | PS 522         | 2020-21          | Core<br>Course    | ,Master            | Political Scienc<br>2-6-2020 to 13-<br>12-2020(101<br>days) |
| 808  | PHILOSOPHIC THEMES AND METHODS                  | PL1241         | 2021-22          | Core<br>Course    | Bachelor           | Philosophy  |
| 809  | INFORMATICS AND PHILOSOPHY                      | PL1321         | 2021-22          | Core<br>Course    | ,Bachelor          | Philosophy  |
| 810  | DEDUCTIVE LOGIC                                 | PL1341         | 2021-22          | Core<br>Course    | ,Bachelor          | Philosophy  |
| 811  | Introduction to Literary Studies I              | EN1141         | 2021-22          | Core<br>Course    | Bachelor           | English   |
| 812  | Introduction to Literary Studies I (<br>II sem) | EN 1241        |                  | Core<br>Course    | ,Bachelor          | English   |
| 813  | British literature I ( III sem                  | EN1341         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 814  | British literature II (IV sem)                  | EN1441         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |

| Srno | Title of Course                                     | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 815  | Literature of the 20th Century IV                   | EN1442         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 816  | Literary Criticism Vsem                             | EN1541         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 817  | Indian Literature in English V sem                  | EN1542         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 818  | Film Studies V sem                                  | EN1543         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 819  | Linguistics and Phonetics V sem                     | EN1544         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 820  | Post Colonial Literatures in English V              | EN 1545        | 2021-22          | Core<br>Course    |                    | English   |
| 821  | World Classics VI sem                               | EN1641         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 822  | Methodology and Perspective of<br>Humanities VI sem | EN1642         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 823  | English for the Media VI sem                        | EN 1643        | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 824  | Womens Writing VI                                   | EN1644         | 2021-22          | Core<br>Course    | Bachelor           | English   |
| 825  | Introduction to mass communication Sem I            | JC 1141        | 2021-22          | Core<br>Course    | ,Bachelor          | English   |

| Srno | Title of Course                                 | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|-------------------|--------------------|---|
| 826  | Reporting Sem I                                 | JC 1142        | 2021-22          | Core<br>Course    | ,Bachelor          | Jounalism   |
| 827  | Introduction to Environmental<br>Studies Sem II | JC 1241        | 2021-22          | Core<br>Course    | ,Bachelor          | Journalism  |
| 828  | Magazine Journalism Sem III                     | JC 1341        | 2021-22          | Core<br>Course    | ,Bachelor          | Jounalism   |
| 829  | PR and Corporate Communication<br>Sem IV        | JC 1441        | 2021-22          | Core<br>Course    | ,Bachelor          | Journalism  |
| 830  | Advertising Sem IV                              | JC 1442        | 2021-22          | Core<br>Course    | ,Bachelor          | Journalism  |
| 831  | Malayalam Journalism Sem V                      | JC 1541        | 2021-22          | Core<br>Course    | ,Bachelor          | Journalism  |
| 832  | Media Laws and ethics Sem V                     | JC 1543        | 2021-22          | Core<br>Course    | ,Bachelor          | Journalism  |
| 833  | Mass Media Management Sem V                     | JC 1542        | 2021-22          | Core<br>Course    | ,Bachelor          | Journalism  |
| 834  | Chaucer to the Elizabethan Age                  | EL 211         | 2021-22          | Core<br>Course    | ,Bachelor          | English   |
| 835  | Shakespeare Studies                             | EL 212         | 2021-22          | Core<br>Course    | ,Master            | English   |
| 836  | Indian Writing in English                       | EL 222         | 2021-22          | Core<br>Course    | ,Master            | English   |

| Srno | Title of Course                                    | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 837  | Critical Studies I                                 | EL 224         | 2021-22          | Core<br>Course    | ,Master            | English   |
| 838  | Methodology and perspective of Biotechnology       | BB 1121        | 2020-21          | Core<br>Course    | Bachelor           | Bio Technology  |
| 839  | Methodology and perspective of Biotechnology       | BB 1121        | 2021-22          | Core<br>Course    | Bachelor           | Biotechnology   |
| 840  | Microbiology                                       | BB 1171        | 2020-21          | Core<br>Course    | Bachelor           | Bio technology  |
| 841  | Phycology Mycology Lichenology and Plant Pathology | BB 1141        | 2021-22          | Core<br>Course    | Bachelor           | Botany  |
| 842  | Microbiology                                       | BB 1171        | 2021-22          | Core<br>Course    | Bachelor           | Biotechnology   |
| 843  | Biophysics and Instrumentation                     | BB1221         | 2020-21          | Core<br>Course    | Bachelor           | Bio Technology  |
| 844  | Biophysics and Instrumentation                     | BB1221         | 2021-22          | Core<br>Course    | ,Bachelor          | Biotechnology   |
| 845  | Microbial Metabolism Genetics and Diseases         | BB1271         | 2020-21          | Core<br>Course    | Bachelor           | Bio Technology  |
| 846  | Protista and Animal Diversity                      | BB1371         | 2020-21          | Core<br>Course    | Bachelor           | Bio Technology  |
| 847  | Molecular Biology                                  | BB1471         | 2020-21          | Core<br>Course    | Bachelor           | Biotechnology   |

| Srno | Title of Course                            | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|--------------------|--------------------|---|
| 848  | Immunology                                 | BB1472         | 2020-21          | Core<br>Course     | Bachelor           | Biotechnology   |
| 849  | Recombinant DNA Technology                 | BB1571         | 2020-21          | Core<br>Course     | Bachelor           | Biotechnology   |
| 850  | Animal Biotechnology                       | BB1573         | 2020-21          | Core<br>Course     | Bachelor           | Biotechnology   |
| 851  | Food and Dairy Biotechnology               | BB1582         | 2020-21          | Elective<br>Course | Bachelor           | Biotechnology   |
| 852  | Food and Industrial<br>Biotechnology       | BB1671         | 2020-21          | Core<br>Course     | Bachelor           | Biotechnology   |
| 853  | Environmental Biotechnology                | BB1672         | 2020-21          | Elective<br>Course | Bachelor           | Biotechnology   |
| 854  | Introduction to Biochemistry               | BB1131         | 2021-22          | Core<br>Course     | Bachelor           | BIOCHEMISTRY  |
| 855  | General Biochemistry                       | BB1231         | 2021-22          | Core<br>Course     | Bachelor           | BIOCHEMISTRY  |
| 856  | Environmental Studies                      | BB1241         | 2021-22          | Core<br>Course     | Bachelor           | BOTANY  |
| 857  | Microbial Metabolism Genetics and Diseases | BB1271         | 2021-22          | Core<br>Course     | Bachelor           | BIOTECHNOLO   |
| 858  | Physiological aspects of Biochemistry      | BB1331         | 2021-22          | Core<br>Course     | Bachelor           | BIOCHEMISTRY  |

| Srno | Title of Course                                      | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 859  | Angiosperm Anatomy and<br>Reproductive Botany        | BB1341         | 2021-22          | Core<br>Course    | Bachelor           | BOTANY  |
| 860  | Bryology Pteridology<br>Gymnosperms and Paleobotany  | BB1342         | 2021-22          | Core<br>Course    | Bachelor           | BOTANY  |
| 861  | Protista and Animal Diversity                        | BB1371         | 2021-22          | Core<br>Course    | Bachelor           | BIOTECHNOLO   |
| 862  | Animal Physiology and anatomy                        | BB1372         | 2021-22          | Core<br>Course    | Bachelor           | BIOTECHNOLO   |
| 863  | Metabolism   | BB1431         | 2021-22          | Core<br>Course    | Bachelor           | BIOCHEMISTRY  |
| 864  | Horticulture Mushroom<br>Cultivation and Marketing   | BB1441         | 2021-22          | Core<br>Course    | ,Bachelor          | BOTANY  |
| 865  | Cell biology Plant breeding and evolutionary biology | BB1442         | 2021-22          | Core<br>Course    | Bachelor           | BOTANY  |
| 866  | Molecular Biology                                    | BB1471         | 2021-22          | Core<br>Course    | Bachelor           | BIOTECHNOLO   |
| 867  | Immunology   | BB1472         | 2021-22          | Core<br>Course    | Bachelor           | BIOTECHNOLO   |
| 868  | Plant Physiology                                     | BB1541         | 2021-22          | Core<br>Course    | Bachelor           | BOTANY  |
| 869  | Angiosperm Morphology systematic Botany              | BB1542         | 2021-22          | Core<br>Course    | Bachelor           | BOTANY  |

| Srno | Title of Course                                   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 870  | Recombinant DNA Technology                        | BB1571         | 2021-22          | Core<br>Course     | Bachelor           | BIOTECHNOLO   |
| 871  | Plant Biotechnology                               | BB1572         | 2021-22          | Core<br>Course     | Bachelor           | BIOTECHNOLO   |
| 872  | Animal Biotechnology                              | BB1573         | 2021-22          | Core<br>Course     | Bachelor           | BIOTECHNOLO   |
| 873  | Food and Dairy Biotechnology                      | BB1582         | 2021-22          | Elective<br>Course | ,Bachelor          | BIOTECHNOLO   |
| 874  | Genetics  | BB1641         | 2021-22          | Core<br>Course     | Bachelor           | BOTANY  |
| 875  | Economic Botany Ethanobotany and Medicinal Botany | BB1642         | 2021-22          | Core<br>Course     | Bachelor           | BOTANY  |
| 876  | Food and Dairy Biotechnology                      | BB 1683        | 2020-21          | Elective<br>Course | Bachelor           | Biotechnology   |
| 877  | Cell Biology and Genetics                         | BT 101         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |
| 878  | Biophysics and Biostatistics                      | BT 103         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |
| 879  | Basic Microbiology                                | BT 201         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |
| 880  | Molecular Biology                                 | BT 202         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |

| Srno | Title of Course   | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|---|----------------|------------------|--------------------|--------------------|---|
| 881  | Mathematics Computer Science<br>Bioinformatics andResearch<br>Methodology | BT 203         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |
| 882  | Food and Industrial<br>Biotechnology                                      | BB1671         | 2021-22          | Core<br>Course     | Bachelor           | BIOTECHNOLO   |
| 883  | Plant Biotechnology   | BT 301         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |
| 884  | Environmental Biotechnology   | BB1672         | 2021-22          | Core<br>Course     | Bachelor           | BIOTECHNOLO   |
| 885  | Animal Biotechnology  | BT 302         |                  | Core<br>Course     | Master             | Biotechnology   |
| 886  | Food and Dairy Biotechnology  | BB 1683        | 2021-22          | Elective<br>Course | Bachelor           | BIOTECHNOLO   |
| 887  | Genetic engineering   | BT 303         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |
| 888  | Immunology  | BT 401         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |
| 889  | Environmental Biotechnology   | BT 402         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |
| 890  | Cell Biology and Genetics   | BT 101         | 2021-22          | Core<br>Course     | Master             | BIOTECHNOLO   |
| 891  | Food and dairy Biotechnology and<br>Basics of Bioreactor                  | BT 403         | 2020-21          | Core<br>Course     | Master             | Biotechnology   |

| Srno | Title of Course  | Course<br>Code | Academic<br>Year | Type of<br>Course | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|--|----------------|------------------|-------------------|--------------------|---|
| 892  | Biochemistry   | BT 102         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 893  | Biophysics and Biostatistics   | BT 103         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 894  | Basic Microbiology   | BT 201         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 895  | Molecular Biology  | BT 202         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 896  | Mathematics Computer Science<br>Bioinformatics and Research<br>Methodology | BT 203         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 897  | Plant Biotechnology  | BT 301         | 2021-22          | Core<br>Course    | Master             | Biotechnology   |
| 898  | Animal Biotechnology   | BT 302         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 899  | Genetic engineering  | BT 303         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 900  | Immunology   | BT 401         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 901  | Environmental Biotechnology  | BT 402         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |
| 902  | Food and dairy Biotechnology<br>Basics of Bioreactor                       | BT 403         | 2021-22          | Core<br>Course    | Master             | BIOTECHNOLO   |

| Srno | Title of Course            | Course<br>Code | Academic<br>Year | Type of<br>Course  | Level of<br>Course | Course Offerir<br>Department/<br>Centre/ Unit<br>Name |
|------|----------------------------|----------------|------------------|--------------------|--------------------|---|
| 903  | Genetic Engineering Lab    | BT 305         | 2021-22          | Core<br>Course     | Master             | BIOTECHNOLO   |
| 904  | Plant BT and Animal BT Lab | BT 304         | 2021-22          | Core<br>Course     | Master             | Biotechnology   |
| 905  | Microbiology Lab           | BT 204         | 2021-22          | Elective<br>Course | Master             | BIOTECHNOLO   |
| 906  | Molecular Biology Lab      | BT 205         | 2021-22          | Core<br>Course     | Master             | BIOTECHNOLO   |

### 2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR

| Srno | Title of<br>Course                        | Academic<br>Year | Type of<br>Certificate<br>Program    | Certificate Program/MDP/FDP/EDP Sponsored/Supported by | Certificate Program Offering Department/ Centre/ Unit Name | Progra<br>Start<br>Date   |
|------|---|------------------|--------------------------------------|--|--|---------------------------|
| 1    | Tourism and<br>Heritage<br>Studies        | 2020-21          | Short-term<br>Certificate<br>Program | Central Govt. Agency                                   | HISTORY  | 22-02-<br>2021<br>00:00:0 |
| 2    | Ancient Indian<br>Heritage and<br>Culture | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | HISTORY  | 08-02-<br>2020<br>00:00:0 |
| 3    | Tourism and<br>Heritage<br>Studies        | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | HISTORY  | 22-02-<br>2021<br>00:00:0 |
| 4    | Ancient Indian<br>Heritage and<br>Culture | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | HISTORY  | 25-12-<br>2020<br>00:00:0 |

| Srno | Title of<br>Course                            | Academic<br>Year | Type of<br>Certificate<br>Program    | Certificate Program/MDP/FDP/EDP Sponsored/Supported by | Certificate Program Offering Department/ Centre/ Unit Name | Progra<br>Start<br>Date   |
|------|---|------------------|--------------------------------------|--|--|---------------------------|
| 5    | Apiculture                                    | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | ZOOLOGY  | 16-11-<br>2020<br>00:00:0 |
| 6    | Apiculture                                    | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | ZOOLOGY  | 30-12-<br>2020<br>00:00:0 |
| 7    | Data Analysis<br>using Microsoft<br>Excel     | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | MATHEMATICS  | 25-06-<br>2020<br>00:00:0 |
| 8    | Data Analysis<br>using Microsoft<br>Excel     | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | MATHEMATICS  | 30-12-<br>2020<br>00:00:0 |
| 9    | CERTIFICATE PROGRAMME IN SANSKRIT PROFICIENCY | 2020-21          | Short-term<br>Certificate<br>Program | Central Govt. Agency                                   | SANSKRIT   | 18-06-<br>2020<br>00:00:0 |
| 10   | SANSKRIT<br>SPOKEN<br>CERTIFICATE<br>COURSES  | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | SANSKRIT   | 16-09-<br>2020<br>00:00:0 |
| 11   | CERTIFICATE PROGRAMME IN SANSKRIT PROFICIENCY | 2021-22          | Short-term<br>Certificate<br>Program | Central Govt. Agency                                   | SANSKRIT   | 30-11-<br>2020<br>00:00:0 |
| 12   | SANSKRIT<br>SPOKEN<br>CERTIFICATE<br>COURSES  | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | SANSKRIT   | 17-11-<br>2021<br>00:00:0 |
| 13   | Indian<br>Government<br>and Politics          | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | POLITICAL<br>SCIENCE                                       | 11-06-<br>2020<br>00:00:0 |
| 14   | Human Rights<br>in India                      | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | POLITICAL<br>SCIENCE                                       | 10-12-<br>2021<br>00:00:0 |

| Srno | Title of<br>Course   | Academic<br>Year | Type of<br>Certificate<br>Program    | Certificate Program/MDP/FDP/EDP Sponsored/Supported by | Certificate Program Offering Department/ Centre/ Unit Name | Progra<br>Start<br>Date   |
|------|--|------------------|--------------------------------------|--|--|---------------------------|
| 15   | English For Life   | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | ENGLISH  | 19-06-<br>2020<br>00:00:0 |
| 16   | Translation<br>Studies   | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | ENGLISH-<br>MALAYALAM<br>(DOUBLE MAIN)                     | 15-12-<br>2021<br>00:00:0 |
| 17   | Translation<br>Studies   | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | ENGLISH-<br>MALAYALAM<br>(DOUBLE MAIN)                     | 10-06-<br>2020<br>00:00:0 |
| 18   | Training programme on Mushroom cultivation                                 | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | BOTANY   | 12-08-<br>2020<br>00:00:0 |
| 19   | Floriculture<br>and flower<br>arrangements-<br>Principles and<br>practices | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | BOTANY   | 08-07-<br>2020<br>00:00:0 |
| 20   | Training programme on Mushroom cultivation                                 | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | BOTANY   | 19-08-<br>2021<br>00:00:0 |
| 21   | Floriculture<br>and flower<br>arrangements-<br>Principles and<br>practices | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | BOTANY   | 11-12-<br>2020<br>00:00:0 |
| 22   | CERTIFICATE PROGRAMME IN SANSKRIT PROFICIENCY                              | 2020-21          | Short-term<br>Certificate<br>Program | Central Govt. Agency                                   | SANSKRIT   | 10-06-<br>2020<br>00:00:0 |
| 23   | SANSKRIT<br>SPOKEN<br>CERTIFICATE<br>COURSES                               | 2020-21          | Faculty Development Program (FDP)    | Self<br>Sponsored/Supported                            | SANSKRIT   | 31-12-<br>2020<br>00:00:0 |

| Srno | Title of<br>Course                                    | Academic<br>Year | Type of<br>Certificate<br>Program    | Certificate Program/MDP/FDP/EDP Sponsored/Supported by | Certificate Program Offering Department/ Centre/ Unit Name | Progra<br>Start<br>Date   |
|------|---|------------------|--------------------------------------|--|--|---------------------------|
| 24   | CERTIFICATE PROGRAMME IN SANSKRIT PROFICIENCY         | 2021-22          | Short-term<br>Certificate<br>Program | Central Govt. Agency                                   | SANSKRIT   | 14-06-<br>2021<br>00:00:0 |
| 25   | SANSKRIT<br>SPOKEN<br>CERTIFICATE<br>COURSES          | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | SANSKRIT   | 17-06-<br>2020<br>00:00:0 |
| 26   | DTP in<br>Malayalam<br>Copy writing                   | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | MALAYALAM  | 21-07-<br>2021<br>00:00:0 |
| 27   | securities<br>market analysis                         | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | ECONOMICS  | 09-06-<br>2020<br>00:00:0 |
| 28   | Financial<br>planning and<br>investment<br>Management | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | ECONOMICS  | 03-01-<br>2022<br>00:00:0 |
| 29   | MICROBIAL<br>TECHNIQUES                               | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | BIOTECHNOLOGY  | 10-06-<br>2020<br>00:00:0 |
| 30   | MICROBIAL<br>TECHNIQUES                               | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | BIOTECHNOLOGY  | 15-09-<br>2021<br>00:00:0 |
| 31   | DTP IN<br>MALAYALAM<br>COPY WRITING                   | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | MALAYALAM  | 03-06-<br>2020<br>00:00:0 |
| 32   | DTP IN<br>MALAYALAM<br>COPY WRITING                   | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | MALAYALAM  | 01-09-<br>2021<br>00:00:0 |
| 33   | Certification in<br>Financial<br>services             | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Commerce   | 18-11-<br>2020<br>00:00:0 |

| Srno | Title of<br>Course   | Academic<br>Year | Type of<br>Certificate<br>Program    | Certificate Program/MDP/FDP/EDP Sponsored/Supported by | Certificate Program Offering Department/ Centre/ Unit Name | Progra<br>Start<br>Date   |
|------|--|------------------|--------------------------------------|--|--|---------------------------|
| 34   | Certificate course in GST including GST Accounting software Theory and practical | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Commerce   | 15-12-<br>2021<br>00:00:0 |
| 35   | Launching<br>Online<br>Business  | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Commerce   | 15-06-<br>2020<br>00:00:0 |
| 36   | Start ups-<br>marketing<br>strategies  | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Commerce   | 02-07-<br>2020<br>00:00:0 |
| 37   | UGC-NSQF<br>Short-term<br>Certificate<br>Program in<br>Water Analysis            | 2020-21          | Short-term<br>Certificate<br>Program | Central Govt. Agency                                   | CHEMISTRY  | 15-06-<br>2020<br>00:00:0 |
| 38   | Short-term Certificate Program in Comouter aided drug design (CADD)              | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | CHEMISTRY  | 01-09-<br>2021<br>00:00:0 |
| 39   | UGC-NSQF<br>Short-term<br>Certificate<br>Program in<br>Water Analysis            | 2020-21          | Short-term<br>Certificate<br>Program | Central Govt. Agency                                   | CHEMISTRY  | 15-07-<br>2020<br>00:00:0 |
| 40   | Short-term Certificate Program in Comouter aided drug design (CADD)              | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | CHEMISTRY  | 14-08-<br>2020<br>00:00:0 |
| 41   | Certificate<br>course in<br>Translation  | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Hindi  | 01-06-<br>2020<br>00:00:0 |

| Srno | Title of<br>Course                                       | Academic<br>Year | Type of<br>Certificate<br>Program    | Certificate Program/MDP/FDP/EDP Sponsored/Supported by | Certificate Program Offering Department/ Centre/ Unit Name | Progra<br>Start<br>Date   |
|------|--|------------------|--------------------------------------|--|--|---------------------------|
| 42   | Certificate<br>course in<br>Translation                  | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Hindi  | 13-10-<br>2021<br>00:00:0 |
| 43   | Certificate Course in Microprocessor and Microcontroller | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Physics  | 05-09-<br>2020<br>00:00:0 |
| 44   | Certificate<br>Course in<br>Python<br>Programming        | 2020-21          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Physics  | 15-01-<br>2021<br>00:00:0 |
| 45   | Certificate Course in Microprocessor and Microcontroller | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Physics  | 10-01-<br>2022<br>00:00:0 |
| 46   | Certificate<br>Course in<br>Python<br>Programming        | 2021-22          | Short-term<br>Certificate<br>Program | Self<br>Sponsored/Supported                            | Physics  | 06-09-<br>2021<br>00:00:0 |

Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

# 3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (>= 600 Sq. Ft. Floor Area)

| Sr.<br>No. | Type of the Unit   | Name of<br>Unit   | In-<br>charge<br>Name | Contact no | Email                  | Govt. Schemes   |
|------------|--------------------|-------------------|-----------------------|------------|------------------------|---|
| 1          | Innovation<br>Cell | ZOOLOGY           | Dr<br>SULEKHA<br>B T  | 9495079217 | sulekhabt@gmail.com    | Mentoring Support   |
| 2          | Innovation<br>Cell | ZOOLOGY<br>LAB II | SULEKHA<br>B T        | 9495079217 | sulekhabt@gmail.com    | Mentoring Support,P<br>Incubation Facility<br>Support (Idea to<br>Prototype and Innova<br>Business Plan<br>Development)   |
| 3          | Innovation<br>Cell | ZOOLOGY<br>LAB I  | SULEKHA<br>B T        | 9495079217 | sulekhabt@gmail.com    | Mentoring Support,P<br>Incubation Facility<br>Support (Idea to<br>Prototype and Innova<br>Business Plan<br>Development)   |
| 4          | Innovation<br>Cell | PHYSICS<br>LAB I  | Dr<br>Sankar S        | 9496260308 | sukusankar@yahoo.co.in | Mentoring Support,Son Grant Support, Pre- Incubation Facility Support (Idea to Prototype and Innovations Plan Development), Incubations Facility Support (Innovative Business Model to Startup and Market Linkage & Crowth Stage)                         |
| 5          | Innovation<br>Cell | PHYSICS<br>LAB II | Dr<br>Sankar S        | 9496260308 | sukusankar@yahoo.co.in | Mentoring Support, Son<br>Grant Support, Pre-<br>Incubation Facility<br>Support (Idea to<br>Prototype and Innovations Plan<br>Development), Incubations<br>Facility Support<br>(Innovative Business<br>Model to Startup and<br>Market Linkage & Constants |

| Sr.<br>No. | Type of the Unit   | Name of<br>Unit | In-<br>charge<br>Name | Contact no | Email                    | Govt. Schemes   |
|------------|--------------------|-----------------|-----------------------|------------|--------------------------|---|
| 6          | Innovation<br>Cell | Language<br>Lab | Radhika<br>B          | 9633000715 | radhika.beena@gmail.com  | Mentoring Support,Pr<br>Incubation Facility<br>Support (Idea to<br>Prototype and Innova<br>Business Plan<br>Development)  |
| 7          | Innovation<br>Cell | Studio          | Radhika<br>B          | 9633000715 | radhika.beena@gmail.com  | Mentoring Support,Pr<br>Incubation Facility<br>Support (Idea to<br>Prototype and Innova<br>Business Plan<br>Development)  |
| 8          | Innovation<br>Cell | Library I       | Dr.Saiju S            | 9495153708 | saiju.davidson@gmail.com | Mentoring Support,Se<br>Grant Support,Pre-<br>Incubation Facility<br>Support (Idea to<br>Prototype and Innova<br>Business Plan<br>Development),Incubal<br>Facility Support<br>(Innovative Business<br>Model to Startup and<br>Market Linkage & Emp<br>Growth Stage) |

### 3.2) Existence of Incubation Facility (>= 1500 Sq. Ft. Floor Area)

| Sr.<br>No. | Name of Unit      | In-charge<br>Name | Contact no | Email                  | Govt. Schemes                                  |
|------------|-------------------|-------------------|------------|------------------------|--|
| 1          | ZOOLOGY LAB       | Dr SULEKHA B<br>T | 9495079217 | sulekhabt@gmail.com    | DBT/BIRAC,Owr<br>Central/State Go              |
| 2          | ZOOLOGY LAB V     | SULEKHA B T       | 9495079217 | sulekhabt@gmail.com    | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 3          | ZOOLOGY LAB<br>VI | SULEKHA B T       | 9495079217 | sulekhabt@gmail.com    | DBT/BIRAC,DST,                                 |
| 4          | PHYSICS LAB III   | Dr SANKAR S       | 9496260308 | sukusankar@yahoo.co.in | DBT/BIRAC,DST,                                 |

| Sr.<br>No. | Name of Unit                             | In-charge<br>Name            | Contact no | Email                          | Govt. Schemes                                  |
|------------|--|------------------------------|------------|--------------------------------|--|
| 5          | Chemistry Lab I                          | Dr.S.V.Manoj                 | 9446900213 | manojsvsnc@gmail.com           | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 6          | Chemistry Lab II                         | Dr.S.V.Manoj                 | 9446900213 | manojsvsnc@gmail.com           | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 7          | Chemistry Lab III                        | Dr.S.V.Manoj                 | 9446900213 | manojsvsnc@gmail.com           | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 8          | Chemistry Lab<br>IV                      | Dr.S.V.Manoj                 | 9446900213 | manojsvsnc@gmail.com           | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 9          | Botany Lab I                             | Dr.S.V.Manoj                 | 9446900213 | manojsvsnc@gmail.com           | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 10         | Botany Lab II                            | Dr.Nisha A.P.                | 9446527486 | nishaharivs@gmail.com          | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 11         | Botany Lab III                           | Dr. Nisha A.P.               | 9446527486 | nishaharivs@gmail.com          | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 12         | Botany Lab IV                            | Dr. Nisha A.P.               | 9446527486 | nishaharivs@gmail.com          | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 13         | Biotech Lab I                            | Ms. Greeshma<br>P            | 9048038175 | grereshmapallath@gmail.com     | DBT/BIRAC,DST,<br>Resource,Other<br>Government |
| 14         | Browsing Center                          | Dr. Saiju S                  | 9495153708 | saiju.davidson@gmail.com       | Own Resource,C<br>Government                   |
| 15         | GST<br>Consultation<br>service           | Preseeja P J                 | 9446108970 | preseeja2020@gmail.com         | Own Resource                                   |
| 16         | Choco<br>wheel(Chocolate<br>making unit) | Preseeja P J                 | 9446108970 | preseeja2020@gmail.com         | Own Resource,C<br>Government                   |
| 17         | Fitness Center                           | Dr. Girish<br>Gopalakrishnan | 9497780008 | girishgopalakrishna8@gmail.com | Own Resource,C<br>Government                   |

| Sr.<br>No. | Name of Unit        | In-charge<br>Name            | Contact no | Email                          | Govt. Schemes                     |
|------------|---------------------|------------------------------|------------|--------------------------------|-----------------------------------|
| 18         | Yoga Center         | Dr. Girish<br>Gopalakrishnan | 9497780008 | girishgopalakrishna8@gmail.com | Own Resource,C<br>Government      |
| 19         | Botanical<br>Garden | Dr. Kiranraj M.S             | 9847070800 | mskiranraj@gmail.com           | Own Resource                      |
| 20         | Library             | Dr. Saiju S                  | 9495153708 | saiju.davidson@gmail.com       | DBT/BIRAC,Owr<br>Central/State Go |

## 3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

| Sr.<br>No. | Type<br>of<br>the<br>Unit | Name of<br>Unit                        | In-<br>charge<br>Name | Contact no | Email                     | Govt. Schemes  |
|------------|---------------------------|--|-----------------------|------------|---------------------------|--|
| 1          | IPR<br>Cell               | Sree<br>Narayana<br>College,<br>Kollam | Dr<br>Preetha<br>P S  | 9446662864 | preethapremjith@gmail.com | Mentoring Support,Seed Grant Support,Pre- Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Englisher (Inowth Stage) |

# Section 4: Generation and Support of Prototypes / Innovations at HEI and Recognition received (AY 2020-21 & 2021-22)

# 4) Total no. of Innovations (Verified and Recommended) in Different TRLs (4-9) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

| Sr.<br>No. | Innovation Name   | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|---|---|---|--|--------------------------------|
| 1          | IMPACT OF ORGANOPHOSPHATE PESTICIDES ON THE LIVER OF Etroplus maculatus, A FRESHWATER FISH OF KERALA, INDIA                                 | Independent<br>Assignment/Non-<br>academic Study<br>Project   | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr SULEKHA B T                 |
| 2          | A NOVEL BIOLOGICAL<br>FUEL FOR COMBUSTION<br>SYNTHESIS OF COPPER<br>OXIDE NANOPARTICLES   | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Rehna R                        |
| 3          | HISTOPATHOLOGY IS A BIOMONITORING TOOL TO ASSESS PESTICIDE POLLUTION IN THE ENVIRONMENT   | Independent Assignment/Non- academic Study Project            | 2021-22   | TRL 9 : Full commercial application, technology available for consumers            | Dr SULEKHA B T                 |
| 4          | Optical characterization of nanocrystalline Pr2MoO6 synthesized via modified combustion technique   | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)  | Dr Vidya S                     |
| 5          | Sublethal Effects of<br>Monocrotophos on<br>Histological Architecture<br>of Liver and Kidney of a<br>Freshwater Fish, Anabas<br>testudineus | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr SULEKHA B T                 |

| Sr.<br>No. | Innovation Name  | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|---|---|--|--------------------------------|
| 6          | Fish Gills as a Tool for the<br>Assessment of Sublethal<br>Effects of Monocrotophos<br>on a Freshwater Fish,<br>Etroplus maculatus | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr SULEKHA Β T                 |
| 7          | Synthesis of CuO<br>Nanoparticles and<br>Characterization Studies.   | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)  | Sankar S                       |
| 8          | SYNTHESISD OF ZnO NANOPARTICLES AND ITS CHARACTERIZATION STUDIES.  | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)  | Sankar S                       |
| 9          | SYNTHESIS OF NIO<br>NANOPARTICLE AND ITS<br>CHARACTERIZATION<br>STUDIES.   | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)  | Sankar S                       |
| 10         | GREEN SYNTHESIS OF<br>CuO NANOPARTICLE AND<br>ITS CHARACTERIZATION<br>STUDIES  | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Sankar S                       |

| Sr.<br>No. | Innovation Name  | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|---|---|--|--------------------------------|
| 11         | Toxicity of phosphamidon<br>on the gills of a<br>freshwater fish, Anabas<br>testudineus  | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr SULEKHA Β T                 |
| 12         | A Study on the concept of<br>GST and GST Accounting<br>Software, Accounting<br>procedure and Return<br>filing Procedure                                    | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 5 : Large scale prototype tested in intended environment                       | Dr.A.Rajasekaran               |
| 13         | Temporal evaluation of<br>Bacteria in the Lentic<br>environment of<br>Sasthamkotta Lake in<br>Southern Kerala, India                                       | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 5 : Large scale prototype tested in intended environment                       | Dr. Munisha<br>Murali S        |
| 14         | DNA barcoding and<br>molecular phylogeny of<br>certain benthic fauna in<br>Sasthamkotta Lake in<br>Kerala, India   | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr. Munisha<br>Murali S        |
| 15         | HEAVY METAL CONCENTRATION IN PARAVUR LAKE WITH SPECIAL REFRENCE TO THE HISTOPATHOLOGICAL ALTERNATIONS IN ETROPLUS SURANTENESIS AND OREOCHROMIS MOSSAMBICUS | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2021-22   | TRL 5 : Large scale prototype tested in intended environment                       | Anupama V. S                   |

| Sr.<br>No. | Innovation Name  | Developed as part of                     | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|--|---|--|--------------------------------|
| 16         | GREEN SYNTHESIS, CHARACTERISATION AND ANTIBACTERIAL PROPERTIES OF ZINC OXIDE NANOPARTICLES OBTAINED BY USING LEAF EXTRACTS OF CASSIA FISTULA AND MELIA AZADARACH | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr ROXY M S                    |
| 17         | GREEN SYNTHESIS, CHARACRERISATION AND ANTIBACTERIAL EVALUATIONS OF SYNTHESIZED SILVER NANOPARTICLES FROM CARICA PAPAYA AND MANIHOT ESCULENTA LEAVES EXTRACT      | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr ROXY M S                    |
| 18         | Ecology of Lakebed in<br>Relation to Benthic<br>Organisms in<br>Sasthamkotta Lake in<br>Southern Kerala, India   | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 5 : Large scale prototype tested in intended environment                       | Dr. Munisha<br>Murali S        |
| 19         | INFLUENCE OF BENTHIC FAUNA ON HYDROCHEMISTRY AND SEDIMENT IN SASTHAMKOTTA LAKE IN SOUTHERN KERALA, INDIA   | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 5 : Large scale prototype tested in intended environment                       | Dr. Munisha<br>Murali S        |
| 20         | COMPARATIVE STUDY OF<br>GREEN SYNTHESISED<br>SILVER AND COPPER<br>NANOPARTICLES USING<br>CARICA PAPAYA FRUIT<br>EXTRACT AND THEIR<br>ANTIBACTERIAL<br>EFFICACY   | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr ROXY M S                    |

| Sr.<br>No. | Innovation Name  | Developed as part of                     | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|--|---|--|--------------------------------|
| 21         | Estimation of surface<br>albedo from<br>meteorological<br>observations in South<br>Kerala  | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr ROXY M S                    |
| 22         | A STUDY ON EARTH SURFACE TEMPERATURE   | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr ROXY M S                    |
| 23         | Preliminary study on the<br>wing scales of moth<br>Creatonotus transiens<br>Walker, 1855<br>(Lepidoptera: Erebidae)                              | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr. Munisha<br>Murali S        |
| 24         | CHARACTERIZATION AND<br>ANTIBACTERIAL STUDY<br>OF ZnO NANOPARTICLES<br>SYNTHESIZED USING<br>AQUEOUS LEAF EXTRACT<br>OF ANACARDIUM<br>OCCIDENTALE | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr ROXY M S                    |
| 25         | Wing scale patterns of<br>Hypolimnas bolina<br>(Linnaeus, 1758)<br>(Lepidoptera:<br>Nymphalidae)   | Academic<br>Requirement/Study<br>Project | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr. Munisha<br>Murali S        |

| Sr.<br>No. | Innovation Name  | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage   | Team<br>Lead/Innovator<br>Name |
|------------|--|---|---|---|--------------------------------|
| 26         | A STUDY ON DAIRY FARMING: WITH SPECIAL REFERENCE TO KURIOTTUMALA HI - TECH FARM  | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 7: Demonstration system operating in operational environment at pre- commercial scale | Vincent vijayan                |
| 27         | A THEORETICAL PERSPECTIVE ON THE LINK BETWEEN ENTREPRENEURSHIP AND ECONOMIC DEVELOPMENT WITH SPECIAL REFERENCE TO AGRI- ENTREPRENEURSHIP | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2021-22   | TRL 8 : First of<br>a kind<br>commercial<br>system.<br>Manufacturing<br>issues solved     | Dr.Sreeja Mole S               |
| 28         | Photoluminescence<br>Characterisation Of<br>Cerium Substituted<br>Pyrochlore: Gd2-<br>xCexZr2O7  | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 6: Prototype system tested in intended environment close to expected performance      | SRIJITH S                      |
| 29         | ANATOMICAL AND PHYTOCHEMICAL INVESTIGATION ON MYXOPYRUM SMILACIFOLIUM (WALL.) BLUME.   | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)        | Ratheesh N                     |
| 30         | WATER QUALITY INDEX ANALYSIS OF THIRUVANANTHAPURAM- SHORNUR (TS) CANAL AT KARUNAGAPALLY TALUK, KOLLAM DISTRICT, KERALA                   | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)        | Ratheesh N                     |

| Sr.<br>No. | Innovation Name  | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|---|---|--|--------------------------------|
| 31         | Awareness on Sustainable<br>Development Goals<br>(SDGs)  | Independent<br>Assignment/Non-<br>academic Study<br>Project   | 2021-22   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)    | Dr. Latha<br>Sadanandan        |
| 32         | Construction of symmetric multiwavelets using standard pairs   | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2021-22   | TRL 6: Prototype system tested in intended environment close to expected performance | Mithun                         |
| 33         | Functionalization of tannic acid and campesterol with polyelectrolyte multilayer membranes for lithium ions separation and recycling | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)    | Dr.Nikhil<br>Chandra P         |
| 34         | Functionalization of tannic acid and campesterol with polyelectrolyte multilayer membranes for lithium ions separation and recycling | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)    | Dr.Nikhil<br>Chandra P         |
| 35         | OPEN EDUCATIONAL RESOURCES IN HIGHER EDUCATION- OPPORTUNITIES, CHALLENGES AND FUTURE PERSPECTIVES                                    | Academic<br>Requirement/Study<br>Project                      | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)   | Dr MISHA V                     |

| Sr.<br>No. | Innovation Name  | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|---|---|--|--------------------------------|
| 36         | An ecofriendly method of dye degradation.  | Academic<br>Requirement/Study<br>Project                    | 2021-22   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)   | Dr Rema Devi B                 |
| 37         | Isolation of milk protein from various milk samples available in the market.   | Academic<br>Requirement/Study<br>Project                    | 2021-22   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)    | Dr Rema Devi B                 |
| 38         | Backwater touism   | Academic<br>Requirement/Study<br>Project                    | 2021-22   | TRL 6: Prototype system tested in intended environment close to expected performance | Агуа Р                         |
| 39         | HISTOPATHOLOGICAL CHANGES IN THE LIVER AND KIDNEY OF Anabas testudineus EXPOSED TO SUB-LETHAL CONCENTRATIONS OF PHOSPHAMIDON | Independent<br>Assignment/Non-<br>academic Study<br>Project | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)   | Dr SULEKHA B T                 |
| 40         | Water purification<br>method. Heavy metal<br>removal.  | Academic<br>Requirement/Study<br>Project                    | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)   | Dr Rema Devi B                 |

| Sr.<br>No. | Innovation Name   | Developed as part of                     | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|---|--|---|--|--------------------------------|
| 41         | Removal of atrazine herbicide from water by polyelectrolyte multilayer membranes  | Academic<br>Requirement/Study<br>Project | 2020-21   | TRL 6: Prototype system tested in intended environment close to expected performance | Dr.Nikhil<br>Chandra P         |
| 42         | Potential and Role of<br>Carica Papaya in the<br>Synthesis of CuO<br>nanoparticle for<br>Biomedical Application               | Academic<br>Requirement/Study<br>Project | 2020-21   | TRL 6: Prototype system tested in intended environment close to expected performance | Rehna R                        |
| 43         | Financial literacy in India   | Academic<br>Requirement/Study<br>Project | 2020-21   | TRL 6: Prototype system tested in intended environment close to expected performance | Агуа Р                         |
| 44         | "STRUCTURAL AND ELECTRICAL CHARACTERIZATION OF COBALT OXIDE NANOPARTICLES   | Academic<br>Requirement/Study<br>Project | 2020-21   | TRL 6: Prototype system tested in intended environment close to expected performance | SRIJITH S                      |
| 45         | MORPHOLOGICAL AND<br>ELEMENTAL ANALYSIS OF<br>CYATHULA PROSTRAT (L.)<br>BLUME USING ATOMIC<br>ABSORPTION<br>SPECTROSCOPY(AAS) | Academic<br>Requirement/Study<br>Project | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)   | Dr.Preetha.P.S                 |

| Sr.<br>No. | Innovation Name  | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage   | Team<br>Lead/Innovator<br>Name |
|------------|--|---|---|---|--------------------------------|
| 46         | DIVERSITY AND DISTRIBUTION OF VEGETATION AT AYIRAVALLI SACRED GROVE PARAVOOR, KOLLAM                               | Academic<br>Requirement/Study<br>Project                    | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)        | Ratheesh N                     |
| 47         | STUDY ON SOIL PARAMETERS OF SACRED GROVE AT VENDAR DEVI TEMPLE, KOTTARAKKARA, KOLLAM                               | Academic<br>Requirement/Study<br>Project                    | 2020-21   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)         | Ratheesh N                     |
| 48         | Design and market of<br>floral decorations using<br>indigenous flowering<br>plants                                 | Independent<br>Assignment/Non-<br>academic Study<br>Project | 2020-21   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)         | Dr. Latha<br>Sadanandan        |
| 49         | STUDY OF PHYSICOCHEMICAL PROPERTIES OF SOIL AT AYIRAVALLI SACRED GROVE, PARAVOOR, KOLLAM, KERALA                   | Academic<br>Requirement/Study<br>Project                    | 2020-21   | TRL 7: Demonstration system operating in operational environment at pre- commercial scale | Ratheesh N                     |
| 50         | STUDY ON PHYLLOPLANE<br>MICROFUNGI IN SOME<br>PLANTS AT AYIRAVALLI<br>SACRED GROVE<br>PARAVOOR, KOLLAM,<br>KERALA. | Academic<br>Requirement/Study<br>Project                    | 2020-21   | TRL 7: Demonstration system operating in operational environment at pre- commercial scale | Ratheesh N                     |

| Sr.<br>No. | Innovation Name  | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|---|---|--|--------------------------------|
| 51         | Role of start-ups in the skill development of school children, with special reference to Indian homemade toys  | Academic<br>Requirement/Study<br>Project                      | 2020-21   | TRL 6: Prototype system tested in intended environment close to expected performance | Dr.Preetha.P.S                 |
| 52         | Heavy metal screening of<br>Coccinia grandis (L).voigt<br>leaves using atomic<br>absorption spectroscopy   | Academic<br>Requirement/Study<br>Project                      | 2020-21   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)    | Dr.Preetha.P.S                 |
| 53         | Spectroscopic investigations, concentration dependent SERS, and molecular docking studies of a hydroxybenzylidene derivative                             | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)    | Dr ROXY M S                    |
| 54         | BIOSYNTHESIS,<br>CHARACTERIZATION AND<br>ANTIBACTERIAL STUDY<br>OF ZINC OXIDE<br>NANOPARTICLES USING<br>ONION BULB EXTRACT                               | Academic<br>Requirement/Study<br>Project                      | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)   | Dr ROXY M S                    |
| 55         | Theoretical Insights into<br>the Anti-SARS-CoV?2<br>Activity of Chloroquine<br>and Its Analogs and In<br>Silico Screening of Main<br>Protease Inhibitors | Independent<br>Assignment/Non-<br>academic Study<br>Project   | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)   | Dr.V.L.Pushpa                  |

| Sr.<br>No. | Innovation Name   | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage   | Team<br>Lead/Innovator<br>Name |
|------------|---|---|---|---|--------------------------------|
| 56         | ALCOHOL<br>CONSUMPTION- A SOCIAL<br>EVIL A STUDY IN<br>RELATION TO KERALA   | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)    | Manju Rajan                    |
| 57         | Dependence of Kerala<br>Government Exchequer<br>on Liquor Market  | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)    | Manju Rajan                    |
| 58         | AGRO-FOOD PROCESSING AND VALUE ADDITION-THE PATHWAY TO INCLUSIVE GROWTH Theoretical Background  | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 8 : First of<br>a kind<br>commercial<br>system.<br>Manufacturing<br>issues solved | Dr.Sreeja Mole S               |
| 59         | AN EVALUATION OF THE<br>ECONOMIC ASPECTS OF<br>AGRO-FOOD<br>PROCESSING SECTOR   | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 8 : First of<br>a kind<br>commercial<br>system.<br>Manufacturing<br>issues solved | Dr.Sreeja Mole S               |
| 60         | Conformational analysis and quantum descriptors of two new imidazole derivatives by experimental, DFT, AIM, molecular docking studies and adsorption activity on graphene | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)    | Dr ROXY M S                    |

| Sr.<br>No. | Innovation Name  | Developed as part of  | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|---|---|--|--------------------------------|
| 61         | ASSESSMENT OFECOLOGICAL PARAMETRES OF ANCHUTHENGHU AKATHUMURI BACK WATER SYSTEM WITH SPECIAL REFRENCE TO PATHOGENIC AND NON PATHOGENIC FROM VARIOUS SOURCES  | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 5 : Large<br>scale<br>prototype<br>tested in<br>intended<br>environment        | Rakhi R                        |
| 62         | Conformational analysis and DFT investigations of two triazole derivatives and its halogenated substitution by using spectroscopy, AIM and Molecular docking | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)  | Dr ROXY M S                    |
| 63         | Designing Of Micro Perforated Panels for Low Frequency Passive Acoustic Absorption   | Academic Research<br>Assignment/Industry<br>Sponsored Project | 2020-21   | TRL 4: Small scale prototype built in a laboratory environment ("ugly" prototype)  | Dr ROXY M S                    |
| 64         | Synthesis and Characterization of Undoped and Magnesium Doped Zinc Oxide Nanoparticles   | Academic<br>Requirement/Study<br>Project                      | 2020-21   | TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype) | Dr ROXY M S                    |
| 65         | Diversity, population and spatio-temporal variations in the benthic invertebrates of Sasthamkotta lake In Southern Kerala, India                             | Academic<br>Requirement/Study<br>Project                      | 2020-21   | TRL 5 : Large scale prototype tested in intended environment                       | Dr. Munisha<br>Murali S        |

| Sr.<br>No. | Innovation Name  | Developed as part of                     | FY of<br>Development<br>(FY. 2020-<br>21,2021-22) | TRL Stage  | Team<br>Lead/Innovator<br>Name |
|------------|--|--|---|--|--------------------------------|
| 66         | HYDROGRAPHY AND<br>SEDIMENTOLOGY OF<br>SASTHAMKOTTA LAKE IN<br>SOUTHERN KERALA,<br>INDIA | Academic<br>Requirement/Study<br>Project | 2020-21   | TRL 5 : Large scale prototype tested in intended environment | Dr. Munisha<br>Murali S        |

# Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022) Startup/Venture Recognized by CIN Startup/Venture Startup/Venture No/LLP/OPC/RC GST FY of DPIIT/Startup Sr. No. Name Registered as No **Establishment** India No Data Found

Section 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

# 6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

| Sr.<br>No. | Collaborated<br>Agency<br>Name                  | Collaborated<br>Agency Type       | Period of<br>Collaboration<br>(No. of Years) | Current<br>Status of<br>Collaboration | Date of MOU / Agreement Signed on | View           |
|------------|---|-----------------------------------|--|---------------------------------------|-----------------------------------|----------------|
| 1          | Art media<br>advertising<br>agency,<br>Kottayam | Non Govt. Agency                  | 2  | Active                                | 14-07-2020                        | View (/Uploads |
| 2          | SANKER'S<br>HOSPITAL,<br>KOLLAM                 | Corporate/Industry<br>Association | 10   | Active                                | 20-08-2021                        | View (/Uploads |
| 3          | Sanker's<br>Hospital,<br>Kollam                 | Corporate/Industry<br>Association | 8  | Active                                | 20-08-2020                        | View (/Uploads |
| 4          | SANKER'S<br>HOSPITAL,<br>KOLLAM                 | Corporate/Industry<br>Association | 10   | Active                                | 20-08-2022                        | View (/Uploads |
| 5          | ULCCS LTD                                       | Govt. Agency<br>(State)           | 2  | Active                                | 15-07-2020                        | View (/Uploads |
| 6          | ACESSD,<br>Kottayam                             | Non Govt. Agency                  | 2  | Active                                | 14-07-2020                        | View (/Uploads |

# Section 7: Intellectually Property (IP) Generated and Commercialization

## 7.1) IPR Filed and Published (Copyrights & Design only)

| Sr.<br>No. | Title/Name of IP<br>(Copyright/Design<br>Only) | Type<br>of IP | IP Registration<br>Number of<br>Copyright/Design | Date of<br>Filed/Published | Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society? |  |  |  |  |
|------------|--|---------------|--|----------------------------|--|--|--|--|--|
| No D       | No Data Found                                  |               |  |                            |  |  |  |  |  |

#### 7.2) Patents Filed by HEI

| Sr. No.       | Title/Name of Patent | IP Registration Number | Date of Filed/Published |  |  |  |  |
|---------------|----------------------|------------------------|-------------------------|--|--|--|--|
| No Data Found |                      |                        |                         |  |  |  |  |

### 7.3) Patent Published / Granted Data

| Sr.<br>No. | Patent<br>Registration<br>Application No | Patent<br>Title | Patent<br>Application<br>Date | Status of<br>Patent<br>Applications | Patent Published / Granted Calendar Year | Institute<br>applied the<br>Patent as | View |
|------------|--|-----------------|-------------------------------|-------------------------------------|--|---------------------------------------|------|
| No D       | ata Found                                |                 |                               |                                     |  |                                       |      |

## 7.4) IP Commercialized and Transferred to Industry/Startup

| Sr.<br>No. | Name of Technology<br>Licenced/Transferred/Commercialized | Technology<br>Type | Patent/Licence<br>Holder name<br>(Institute Co-<br>ownership is<br>Must) | Technology<br>Transferred<br>to | Name of<br>Licensee | D<br>T<br>T |  |  |  |  |  |
|------------|---|--------------------|--|---------------------------------|---------------------|-------------|--|--|--|--|--|
| No D       | No Data Found   |                    |  |                                 |                     |             |  |  |  |  |  |

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#### **Declaration**

To, The ARIIA Committee MHRD's Innovation Cell New Delhi

#### Joint Declaration by the Head of the Institute and Nodal Officer

#### Dear Sir,

Herewith, myself **Dr. Nisha J.Tharayil** (Head of Institute) and **Dr. Sulekha B.T.** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

Thank you

The Head of Institute

Funhallharayil 31/10/22

> Dr. Nisha J.Tharayil, Head of the Institution, Sree Narayana College, Kollam, Kollam, Kerala

Nodal officer

Dr. Sulekha B.T., Nodal Officer, Sree Narayana College, Kollam, Kollam, Kerala