



**LAGOS STATE POLYTECHNIC**  
**SCHOOL OF PURE AND APPLIED SCIENCES**  
**DEPARTMENT OF BIOLOGICAL SCIENCE**  
**NEW CURRICULUM FOR HND I (MICROBIOLOGY OPTION) (FIRST SEMESTER)**

| <b>COURSE CODE</b> | <b>COURSE TITLE</b>                   | <b>THEORY HOUR</b> | <b>PRACTICAL HOUR</b> | <b>CONTACT HOUR</b> | <b>COURSE UNITS</b> | <b>PREREQUISITE</b> |
|--------------------|---------------------------------------|--------------------|-----------------------|---------------------|---------------------|---------------------|
| <b>COM 123</b>     | COMPUTER APPLICATION PACKAGE          |                    | 2                     | 3                   | 2                   |                     |
| <b>GLT 301</b>     | LABORATORY MANAGEMENT                 |                    | 0                     | 2                   | 2                   |                     |
| <b>GLT 302</b>     | GENERAL INSTRUMENTATION               |                    | 2                     | 3                   | 2                   |                     |
| <b>GLT 303</b>     | BIOLOGICAL & CHEMICAL INSTRUMENTATION |                    | 3                     | 5                   | 3                   |                     |
| <b>STH 301</b>     | MICROBIAL BIOCHEMISTRY                |                    | 0                     | 2                   | 2                   | STC 222             |
| <b>STM 311</b>     | BACTERIOLOGY                          |                    | 3                     | 5                   | 3                   | STB 211             |
| <b>STM 312</b>     | MICROBIOLOGICAL TECHNIQUES I          |                    | 3                     | 4                   | 2                   |                     |
| <b>GNS 301</b>     | USE OF ENGLISH III                    |                    | 0                     | 2                   | 2                   |                     |
| <b>GNS 325</b>     | INDUSTRIAL PSYCHOLOGY                 |                    | 2                     | 4                   | 3                   | STB 211             |
| <b>STB 315</b>     | RESEARCH METHODOLOGY & BIOSTATISTICS  |                    | -                     | 2                   | 2                   |                     |
|                    | <b>TOTAL</b>                          |                    | <b>15</b>             | <b>32</b>           | <b>23</b>           |                     |



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**NEW CURRICULUM FOR HND I (MICROBIOLOGY OPTION) (SECOND SEMESTER)**

| COURSE CODE | COURSE TITLE                        | THEORY HOUR | PRACTICAL HOUR | CONTACT HOUR | COURSE UNIT | PREREQUISITE |
|-------------|-------------------------------------|-------------|----------------|--------------|-------------|--------------|
| STM 321     | MYCOLOGY                            |             | 3              | 4            | 2           | STB 211      |
| STM 322     | MICROBIAL TECHNIQUES II             |             | 3              | 4            | 2           |              |
| STM 323     | ENVIRONMENTAL MICROBIOLOGY          |             | 3              | 5            | 3           | STB 211      |
| STM 324     | FOOD MICROBIOLOGY                   |             | 2              | 3            | 2           | STB 211      |
| STM 326     | VIROLOGY                            |             | 2              | 4            | 3           | STB 211      |
| STB 316     | PARASITOLOGY                        |             | 3              | 5            | 3           |              |
| GNS 302     | COMMUNICATION IN ENGLISH III        |             | -              | 2            | 2           |              |
| CCE 300     | COMPULSORY COMPUTER EDUCATION III   |             | 2              | 2            | 0           |              |
| STM 325     | MICROBIAL PHYSIOLOGY AND METABOLISM |             | 2              | 4            | 3           |              |
|             |                                     |             |                |              |             |              |
|             |                                     |             |                |              |             |              |
|             |                                     |             |                |              |             |              |
|             |                                     |             |                |              |             |              |
|             |                                     |             |                |              |             |              |
|             |                                     |             |                |              |             |              |
|             | <b>TOTAL</b>                        |             | <b>20</b>      | <b>33</b>    | <b>20</b>   |              |



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**NEW CURRICULUM FOR HND II (MICROBIOLOGY OPTION) (FIRST SEMESTER)**

| <b>COURSE CODE</b> | <b>COURSE TITLE</b>                                | <b>THEORY HOUR</b> | <b>PRACTICAL HOUR</b> | <b>CONTACT HOUR</b> | <b>CREDIT UNIT</b> | <b>PREREQUISITE</b> |
|--------------------|--|--------------------|-----------------------|---------------------|--------------------|---------------------|
| STM 411            | MICROBIAL GENETICS                                 |                    | 0                     | 2                   | 2                  | STM 311             |
| STM 412            | MICROBIOLOGICAL TECHNIQUES III                     |                    | 3                     | 4                   | 2                  | STM 326             |
| STM 413            | PHARMACEUTICAL MICROBIOLOGY                        |                    | 2                     | 4                   | 3                  | STM 322             |
| STM 414            | MICROBIOLOGY<br>PATHOGENIC/MEDICAL<br>MICROBIOLOGY |                    | 3                     | 5                   | 3                  |                     |
| STB 421            | APPLIED GENETICS (PLANT<br>BREEDING)               |                    | 2                     | 4                   | 3                  | STM 301             |
| MTH 354            | OPERATIONAL RESEARCH                               |                    | 0                     | 2                   | 2                  | STM 325             |
| STM 315            | IMMUNOLOGY AND PUBLIC HEALTH                       |                    | 3                     | 4                   | 2                  | STM 311             |
| EED 413            | ENTREPRENEURSHIP DEVELOPMENT                       |                    | 3                     | 5                   | 3                  | STM 326             |
| GNS 413            | INDUSTRIAL MANAGEMENT                              |                    | 0                     | 2                   | 3                  |                     |
| GNS 401            | COMMUNICATION IN ENGLISH III                       |                    | 0                     | 2                   | 2                  |                     |
|                    |  |                    |                       |                     |                    |                     |
|                    | <b>TOTAL</b>                                       |                    | <b>16</b>             | <b>34</b>           | <b>25</b>          |                     |



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**NEW CURRICULUM FOR HND I1 (MICROBIOLOGY OPTION) (SECOND SEMESTER)**

| <b>COURSE CODE</b> | <b>COURSE TITLE</b>                       | <b>THEORY HOUR</b> | <b>PRACTICAL HOUR</b> | <b>CONTACT HOUR</b> | <b>CREDIT UNIT</b> | <b>PREREQUISITE</b> |
|--------------------|---|--------------------|-----------------------|---------------------|--------------------|---------------------|
| <b>FST 417</b>     | INDUSTRIAL MICROBIOLOGY                   |                    | 4                     | 6                   | 4                  |                     |
| <b>FST 421</b>     | WASTE TREATMENT, UTILISATION & DISPOSAL   |                    | 2                     | 4                   | 3                  |                     |
| <b>STM 424</b>     | MICROBIOLOGY SEMINAR                      |                    | 2                     | 2                   | 1                  |                     |
| <b>STB 422</b>     | APPLIED GENETICS (ANIMAL BREEDING)        |                    | 2                     | 3                   | 2                  |                     |
| <b>STM 425</b>     | MICROBIOLOGY PROJECT                      |                    | 12                    | 12                  | 4                  |                     |
| <b>GNS 402</b>     | LITERARY APPRECIATION & ORAL PRESENTATION |                    | 0                     | 2                   | 2                  |                     |
| <b>CCE 400</b>     | COMPULSORY COMPUTER EDUCATION IV          |                    | 2                     | 2                   | 0                  |                     |
| <b>STM 421</b>     | MICROBIOLOGICA; QUALITY CONTROL           |                    | 4                     | 6                   | 4                  |                     |
|                    | <b>TOTAL</b>                              |                    | <b>28</b>             | <b>37</b>           | <b>20</b>          |                     |