



DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Equivalence Report

Equivalent Subjects of Second Year Computer Engineering. from NMU Jalgaon to DBATU

SEMESTER-III

| Sr. No. | NMU Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|-----------------------------|---------------------------------------|--------|---|--|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | 173101 | Engineering Mathematics-III | 4 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2 | 173102 | Analog & Digital Electronics | 3 | BTCOC305 | Digital Electronics & Microprocessors | 3 |
| 3 | 173103 | Discrete Structure & Graph Theory | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 4 | 173104 | Microprocessor & Microcontroller | 3 | BTCOE406B | Numerical Methods | 3 |
| 5 | 173105 | Object Oriented Technology | 3 | BTCOE404B | Object Oriented Programming in C++ | 3 |
| 6 | 173306 | Soft Skills – III | 2 | BTID405 | Product Design Engineering | 2 |
| 7 | 173307 | Analog & Digital Electronics Lab | 1 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 8 | 173308 | Discrete Structure & Graph Theory Lab | 1 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 9 | 173309 | Microprocessor & Microcontroller Lab | 1 | BTCOL306 | Python Programming | 1 |
| 10 | 173310 | Object Oriented Technology Lab | 1 | BTCOL409 | Object Oriented Programming Lab | 1 |

Total Credits of Third Semester at NMU, Jalgaon- 23

SEMESTER-IV

| Sr. No. | NMU Subject(Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|----------------------------|--|--------|---|--------------------------------------|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | 174111 | Data Communication | 3 | BTCOC403 | Operating Systems | 4 |
| 2 | 174112 | Microprocessor & Microcontroller Interfacing | 4 | BTCOC402 | Probability & Statistics | 4 |
| 3 | 174113 | Data Structures | 4 | BTCOC303 | Data Structures | 3 |
| 4 | 174114 | Computer Organization | 3 | BTCOC304 | Computer Architecture & Organization | 3 |
| 5 | 174115 | Computer Graphics | 3 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 6 | 174316 | Application Development Lab | 2 | BTCOL307 | HTML and JavaScript | 2 |
| 7 | 174317 | Data Communication Lab | 1 | BTCOL408 | Introduction to Data Science with R | 1 |
| 8 | 174318 | Microprocessor & Microcontroller Interfacing Lab | 1 | BTCOL410 | Operating System Lab | 1 |
| 9 | 174319 | Data Structures Lab | 1 | BTCOL308 | Data Structures Lab | 1 |
| 10 | 174320 | Computer Graphics Lab | 1 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |

Total Credits of Fourth Semester at NMU, Jalgaon- 23

- For students getting transferred to DBATU after passing all the subjects of Second Year at NMU Jalgaon: The CGPA will be carried forward and the credits earned will be considered at actual.

- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at NMU Jalgaon: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.
- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per NMU for the subjects in which the student is passed from NMU. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from NMU to DBATU ***

Total Marks (100) = (INT of NMU * 2) + End Semester Marks of DBATU

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Equivalent Subjects of Second Year Computer Engineering from Dr.BAMU to Dr.BATU

Semester-III

| Sr. No. | Dr.BAMU Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|---------------------------------|--|--------|---|--|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1. | BSH201 | Engineering Mathematics - III | 4 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2. | CSE202 | Data Structures | 4 | BTCOC303 | Data Structures | 3 |
| 3. | CSE203 | Computer Networks | 4 | BTCOE406B | Numerical Methods | 3 |
| 4. | CSE204 | Digital Electronics | 4 | BTCOC305 | Digital Electronics & Microprocessors | 3 |
| 5. | CSE205 | Linux Operating System | 4 | BTCOC403 | Operating Systems | 4 |
| 6. | CSE221 | Lab 1: Data Structures | 1 | BTCOL308 | Data Structures Lab | 1 |
| 7. | CSE222 | Lab 2: Computer Networks | 1 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |
| 8. | CSE223 | Lab 3: Digital Electronics | 1 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 9. | CSE224 | Lab 4: Linux Operating System | 1 | BTCOL410 | Operating System Lab | 1 |
| 10. | CSE225 | Lab 5: Introduction to Web Programming | 2 | BTCOL307 | HTML and JavaScript | 2 |

Total Credits of Third Semester at BAMU, Aurangabad - 26

Semester-IV

| Sr. No. | Dr.BAMU Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|---------------------------------|---|--------|---|--------------------------------------|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1. | BSH251 | Engineering Mathematics-IV | 4 | BTCOC402 | Probability & Statistics | 4 |
| 2. | CSE252 | Discrete Mathematics | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 3. | CSE253 | Object Oriented Programming | 4 | BTCOE404B | Object Oriented Programming in C++ | 3 |
| 4. | CSE254 | Microprocessor & Computer Organization | 4 | BTCOC304 | Computer Architecture & Organization | 3 |
| 5. | CSE255 | Computer Graphics | 4 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 6. | CSE271 | Lab 6: Object Oriented Programming | 1 | BTCOL409 | Object Oriented Programming Lab | 1 |
| 7. | CSE272 | Lab 7: Microprocessor & Computer Organization | 1 | BTCOL306 | Python Programming | 1 |
| 8. | CSE273 | Lab 8: Computer Graphics | 1 | BTHM3401 | Basic Human Rights | 1 |
| 9. | CSE274 | Lab 9: Open Source Lab | 1 | BTCOL408 | Introduction to Data Science with R | 1 |
| 10. | BSH275 | Lab 10: Communication Skills - I | 2 | BTID405 | Product Design Engineering | 2 |

* **Note:** - If in either one semester Computer Fundamentals I or II of Dr. BAMU is not cleared, the student will have to appear for Basic Computer Programming of Dr. BATU.

Total Credits of Fourth Semester at BAMU, Aurangabad - 26

- For students getting transferred to DBATU after passing all the subjects of Second Year at BAMU, Aurangabad: The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at BAMU, Aurangabad: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.
- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per BAMU, Aurangabad for the subjects in which the student is passed from DBATU. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from DBAMU to DBATU ***

$$\text{Total Marks (100)} = (\text{INT of DBAMU} * 2) + \text{End Semester Marks of DBATU}$$

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Equivalent Subjects of Second Year Computer Engineering from RTMU Nagpur to Dr.BATU****SEMESTER-III**

| Sr.No | RTMNU Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|-------|-------------------------------|--|--------|---|---|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | BECSE201T | Applied Mathematics | 5 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2 | BECSE202T | Advance "C" & Programming Logic Design | 5 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 3 | BECSE203T | Digital Circuits & Fund. Of Microprocessor | 5 | BTCOC305 | Digital Electronics & Microprocessor | 3 |
| 4 | BECSE204T | Ethics in IT | 4 | BTHM3401 | Basic Human Rights | 1 |
| 5 | BECSE205T | Computer Architecture and Organization | 5 | BTCOC304 | Computer Architecture & Organization | 3 |
| 6 | BECSE202P | Advance "C" & Programming Logic Design lab | 2 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |
| 7 | BECSE203P | Digital Circuits & Fund. of Microprocessor lab | 2 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 8 | BECSE206P | Computer Workshop - 1 Lab | 1 | BTCOL306 | Python Programming | 1 |
| 9 | BECSE207T | Environmental Engineering (Audit Course) | 2 | BTCOF310 | Field Training/ Internship / Industrial Training Evaluation | 1 |

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| Total Credits of Third Semester at RTMU, Nagpur - 27 |
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SEMESTER-IV

| Sr.No | RTMNU Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|-------|-------------------------------|---|--------|---|-------------------------------------|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | BECSE208T | Discrete Mathematics & Graph Theory | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 2 | BECSE209T | Data Structures & Program Design | 5 | BTCOC303 | Data Structures | 3 |
| 3 | BECSE210T | Operating System | 5 | BTCOC403 | Operating Systems | 3 |
| 4 | BECSE211T | Theoretical Foundations of Computer Science | 5 | BTCOC402 | Probability & Statistics | 4 |
| 5 | BECSE212T | System Programming | 5 | BTID405 | Product Design Engineering | 2 |
| 6 | BECSE209P | Data Structures & Program Design Lab | 1 | BTCOL308 | Data Structures Lab | 1 |
| 7 | BECSE210P | Operating System lab | 1 | BTCOL410 | Operating System Lab | 1 |
| 8 | BECSE213P | Computer Workshop -2 Lab | 2 | BTCOL408 | Introduction to Data Science with R | 1 |

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| Total Credits of Fourth Semester at RTMU, Nagpur - 28 |
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- For students getting transferred to DBATU after passing all the subjects of Second Year at RTMU NAGPUR: The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at RTMU NAGPUR: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.

- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per RTMU NAGPUR for the subjects in which the student is passed from DBATU. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from RTMU NAGPUR to
DBATU ***

Total Marks (100) = (INT of RTMU NAGPUR* 2) + End Semester Marks of DBATU

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Equivalent Subjects of Second Year Computer Engineering from SGBAU Amravati to DBATU

SEMESTER-III

| Sr. No. | SGBAU SUBJECT (Syll. 2018-19) | | | Sr. No. | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|-------------------------------|--|--------------|---------|---|--------------------------------------|--------------|
| | Code | Subject | Credit Point | | Code | Subject | Credit Point |
| 1 | 3KS01/ 3KE01 | Mathematics | | 1 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2 | 3KS 02/ 3KE02 | Programming Methodology | | 2 | BTCOE404B | Object Oriented Programming in C++ | 3 |
| 3 | 3KS 03/ 3KE03 | Electronic Devices And Circuits | | 3 | BTCOC403 | Operating Systems | 4 |
| 4 | 3KS 04/ 3KE04 | Discrete Structure | | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 5 | 3KS 05/ 3KE05 | Computer Organization | | 7 | BTCOC304 | Computer Architecture & Organization | 3 |
| 6 | 3KS 06/ 3KE06 | Programming Methodology Lab | | 8 | BTCOL409 | Object Oriented Programming Lab | 1 |
| 7 | 3KS 07/ 3KE07 | Electronic Devices & Circuits Lab | | 9 | BTCOL409 | Object Oriented Programming Lab | 1 |
| 8 | 3 KS 08 / 3 KE 08 | Computer Laboratory I [Web Technology] | | 10 | BTCOL307 | HTML and JavaScript | 2 |

SEMESTER-IV

| Sr. No. | SGBAU SUBJECT (Syll. 2018-19) | | | Sr. No. | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|-------------------------------|-----------------------------------|--------|---------|---|--|--------|
| | Code | Subject | Credit | | Code | Subject | Credit |
| 1 | 4KS01/ 4KE01 | Data Structures | | 1 | BTCOC303 | Data Structures | 3 |
| 2 | 4KS02/ 4KE02 | Analog & Digital Ics | | 2 | BTCOC305 | Digital Electronics & Microprocessors | 3 |
| 3 | 4KS03/ 4KE03 | Object Oriented Programming | | 3 | BTCOE404B | Object Oriented Programming in C++ | 3 |
| 4 | 4KS04/ 4KE04 | Assembly Language Programming | | 4 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 5 | 4KS05/ 4KE05 | Theory Of Computation | | 5 | BTCOC402 | Probability & Statistics | 4 |
| 6 | 4KS06/ 4KE06 | Data Structures Lab | | 6 | BTCOL308 | Data Structures Lab | 1 |
| 7 | 4KS07/ 4KE07 | Analog & Digital Ic's Lab | | 7 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 8 | 4KS08/ 4KE08 | Object Oriented Programming Lab. | | 8 | BTCOL409 | Object Oriented Programming Lab | 1 |
| 9 | 4KS09/ 4KE09 | Assembly Language Programming Lab | | 9 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |

NOTE :- 1) Basic Electronics Engineering 2) Basic Electronics Engineering Lab are not in SGBAU syllabus.

- For students getting transferred to DBATU after passing all the subjects of Second Year at SGBAU AMRAVATI: The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at SGBAU AMRAVATI: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.
- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per SGBAU AMRAVATI for the subjects in which the student is passed from DBATU. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from SGBAU AMRAVATI to DBATU ***

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|---|
| Total Marks (100) = (INT of SGBAU AMRAVATI* 2) + End Semester Marks of DBATU |
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DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Equivalent Subjects of Second Year Computer Engineering from SU, Solapur to DBATU****SEMESTER-III**

| Sr. No. | Solapur University Subjects (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|---|----------------------------------|--------|---|---|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | CS 211 | Applied Mathematics - I | 4 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2 | CS 212 | Discrete Mathematical Structures | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 3 | CS 213 | Data Communication | 3 | BTHM3402 | Soft Skills and Personality Development | 3 |
| 4 | CS 214 | Digital Techniques | 3 | BTCOC305 | Digital Electronics & Microprocessors | 3 |
| 5 | CS 215 | Computer Graphics | 3 | BTHM3401 | Basic Human Rights | 1 |
| 6 | CS 216 | Advanced C Concepts | 3 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 7 | ENV 21 | Environmental Studies | -- | BTCOF310 | Field Training/ Internship / Industrial Training Evaluation | 1 |
| 8 | CS 213 | Data Communication Laboratory | 1 | BTCOL307 | HTML and JavaScript | 2 |
| 9 | CS 214 | Digital Techniques Laboratory | 1 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 10 | CS 215 | Computer Graphics Laboratory | 1 | BTCOL306 | Python Programming | 1 |
| 11 | CS 216 | Advanced C Concepts Laboratory | 2 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |

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| Total Credits of Third Semester at SU, Solapur – 25 |
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Semester-IV

| Sr. No. | Solapur University Subjects(Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|--|---|--------|---|---|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1. | CS 221 | Applied Mathematics – II | 4 | BTCOE406B | Numerical Methods | 3 |
| 2. | CS 222 | Theory of Computation | 4 | BTCOC402 | Probability & Statistics | 4 |
| 3. | CS 223 | Microprocessors | 3 | BTID405 | Product Design Engineering | 2 |
| 4. | CS 224 | Data Structures | 3 | BTCOC303 | Data Structures | 3 |
| 5. | CS 225 | Computer Networks | 3 | BTCOC403 | Operating Systems | 4 |
| 6. | CS 226 | Object Oriented Programming through C++ | 3 | BTCOE404B | Object Oriented Programming in C++ | 3 |
| 7. | ENV22 | Environmental Studies | | BTCOF411 | Field Training /Internship / Industrial Training Evaluation (Credit to be evaluated at in V Sem.) | 1 |
| 8. | CS 223 | Microprocessors | 1 | BTCOL408 | Introduction to Data Science with R | 1 |
| 9. | CS 224 | Data Structures | 2 | BTCOL308 | Data Structures Lab | 1 |
| 10. | CS 225 | Computer Networks | 1 | BTCOL410 | Operating System Lab | 1 |
| 11. | CS 226 | Object Oriented Programming | 1 | BTCOL309 | Object Oriented Programming | 1 |

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| Total Credits of Fourth Semester at SU, Solapur – 25 |
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- For students getting transferred to DBATU after passing all the subjects of Second Year at SU, Solapur: The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at SU, Solapur: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.

- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per Solapur University for the subjects in which the student is passed from SU, Solapur. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from Solapur University to DBATU**

Total Marks (100) = (INT of Solapur University * 1.33) + End Semester Marks of DBATU

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Equivalent Subjects of Second Year Computer Engineering from Shivaji University Kolhapur to DBATU

SEMESTER-III

| Sr. No. | Shivaji University Subjects (Syll. 2018-19) | | | Equivalent Subject to DBATU | | |
|---------|---|---------------------------------------|--------|-----------------------------|--|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | MA211 | Engineering Mathematics-III | 4 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2 | CS211 | Discrete Mathematical | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 3 | CS212 | Digital System and Microprocessor | 4 | BTCOC305 | Digital Electronics & Microprocessors | 3 |
| 4 | CS213 | Data Structures with C | 4 | BTCOC303 | Data Structures | 3 |
| 5 | CS214 | Data Communication | 4 | BTCOC403 | Operating Systems | 4 |
| 6 | CS212L | Digital System and Microprocessor Lab | 1 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 7 | CS213L | Data Structures Lab | 2 | BTCOL308 | Data Structures Lab | 1 |
| 8 | CS215L | Unix And Shell Programming | 2 | BTCOL410 | Operating System Lab | 1 |

Total Credits of Third Semester at Shivaji University Kolhapur – 25

SEMESTER-IV

| Sr. No. | Shivaji University Subjects (Syll. 2018-19) | | | Equivalent Subject to DBATU | | |
|---------|---|-----------------------------|--------|-----------------------------|---|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | CS221 | Theory of Computation | 4 | BTCOC402 | Probability & Statistics | 4 |
| 2 | CS222 | Advanced Microprocessor | 4 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 3 | CS2223 | Computer Organization | 4 | BTCOC304 | Computer Architecture & Organization | 3 |
| | CS224 | Computer Networks | 4 | BTHM3402 | Soft Skills and Personality Development | 3 |
| 5 | CS225 | Computational Mathematics | 4 | BTCOE406 B | Numerical Methods | 3 |
| 6 | CS222L | Advanced Microprocessor Lab | 1 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |
| 7 | CS225L | Computer Networks Lab | 1 | BTCOL307 | HTML and JavaScript | 2 |
| 8 | CS226L | Object Oriented Lab | 3 | BTCOL409 | Object Oriented Programming Lab | 1 |

Total Credits of Fourth Semester at Shivaji University Kolhapur – 25

- For students getting transferred to DBATU after passing all the subjects of Second Year at Shivaji University, Kolhapur : The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at Shivaji University, Kolhapur: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.
- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per Shivaji university for the subjects in which the student is passed from Shivaji University, Kolhapur. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from Shivaji University Kolhapur to
DBATU ***

**Total Marks (100) = (INT of Shivaji University * 0.8) + End Semester Marks of
DBATU**

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Equivalent Subjects of Second Year Computer Engineering from MU Mumbai to DBATU****SEMESTER-III**

| Sr. No. | MU Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|----------------------------|--|------------|---|--|------------|
| | Code | Subject | Credit Pt. | Code | Subject | Credit Pt. |
| 1 | CSC301 | Applied Mathematics -III | 5 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2 | CSC302 | Digital Logic Design and Analysis | 4 | BTCOC305 | Digital Electronics & Microprocessors | 3 |
| 3 | CSC303 | Discrete Mathematics | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 4 | CSC304 | Electronic Circuits and Communication Fundamentals | 4 | BTBS405A | Physics of Engineering Materials | 3 |
| 5 | CSC305 | Data Structures | 4 | BTCOC303 | Data Structures | 3 |
| 6 | CSL301 | Digital System Lab | 1 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 7 | CSL302 | Basic Electronics Lab | 1 | BTCOL306 | Python Programming | 1 |
| 8 | CSL303 | Data structure Lab | 1 | BTCOL308 | Data Structures Lab | 1 |
| 9 | CSL304 | OOPM(Java) Lab | 2 | BTCOL409 | Object Oriented Programming Lab | 1 |

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| Total Credits of Third Semester at MU, Mumbai- 26 |
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SEMESTER-IV

| Sr.No | MU Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|-------|----------------------------|--|------------|---|--------------------------------------|------------|
| | Code | Subject | Credit Pt. | Code | Subject | Credit Pt. |
| 1 | CSC401 | Applied Mathematics- IV | 5 | BTCOE406B | Numerical Methods | 3 |
| 2 | CSC402 | Analysis of Algorithms | 4 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 3 | CSC403 | Computer Organization and Architecture | 4 | BTCOC304 | Computer Architecture & Organization | 3 |
| 4 | CSC404 | Computer Graphics | 4 | BTCOC402 | Probability & Statistics | 4 |
| 5 | CSC405 | Operating System | 4 | BTCOC403 | Operating Systems | 3 |
| 6 | CSL401 | Analysis of Algorithms Lab | 1 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |
| 7 | CSL402 | Computer Graphics Lab | 1 | BTHM3401 | Basic Human Rights | 1 |
| 8 | CSL403 | Processor Architecture Lab | 1 | BTCOL408 | Introduction to Data Science with R | 1 |
| 9 | CSL404 | Operating System Lab | 1 | BTCOL410 | Operating System Lab | 1 |
| 10 | CSL405 | Open Source Tech Lab | 2 | BTCOL307 | HTML and JavaScript | 2 |

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| Total Credits of Fourth Semester at MU, Mumbai- 27 |
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- For students getting transferred to DBATU after passing all the subjects of Second year at MU Mumbai: The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at MU Mumbai: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.
- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per MU Mumbai for the subjects in which the student is passed from MU. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from MU Mumbai to DBATU ***

Total Marks (100) = (INT of MU Mumbai * 2) + End Semester Marks of DBATU

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE**Equivalent Subjects of Second Year Computer Engineering from SPPU Pune to DBATU****SEMESTER-III**

| Sr. No. | SPPU Pune Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|-----------------------------------|--|--------|---|---|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | 210241 | Discrete Mathematics | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 2 | 210242 | Electronics and Logic Design | 4 | BTCOC305 | Digital Electronics & Microprocessors | 3 |
| 3 | 210243 | Data Structures and Algorithms | 4 | BTCOC402 | Data Structures | 3 |
| 4 | 210244 | Computer Organization and Architecture | 4 | BTCOC304 | Computer Architecture & Organization | 3 |
| 5 | 210245 | Object Oriented Programming | 4 | BTCOE404B | Object Oriented Programming in C++ | 3 |
| 6 | 210246 | Digital Electronics Lab | 1 | BTCOL309 | Digital Electronics & Microprocessor Lab | 1 |
| 7 | 210247 | Data Structures Lab | 2 | BTCOL308 | Data Structures Lab | 1 |
| 8 | 210248 | Object Oriented Programming Lab | 1 | BTCOL409 | Object Oriented Programming Lab | 1 |
| 9 | 210249 | Soft Skills | 1 | BTHM3401 | Basic Human Rights | 1 |
| 10 | 210250 | Audit Course 1 | | BTCOF310 | Field Training/ Internship / Industrial Training Evaluation | 1 |

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| Total Credits of Third Semester at SPPU, Pune - 25 |
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SEMESTER-IV

| Sr. No. | SPPU Pune Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|-----------------------------------|-------------------------------------|--------|---|-------------------------------------|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | 207003 | Engineering Mathematics III | 5 | BTBSC301 | Engineering Mathematics III | 4 |
| 2 | 210251 | Computer Graphics | 4 | BTCOC403 | Operating Systems | 4 |
| 3 | 210252 | Advanced Data Structures | 4 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 4 | 210253 | Microprocessor | 4 | BTCOC402 | Probability & Statistics | 4 |
| 5 | 210254 | Principles of Programming Languages | 3 | BTCOE404A | Object Oriented Programming in Java | 3 |
| 6 | 210255 | Computer Graphics Lab | 1 | BTCOL410 | Operating System Lab | 1 |
| 7 | 210256 | Advanced Data Structures Lab | 1 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |
| 8 | 210257 | Microprocessor Lab | 2 | BTCOL306 | Python Programming | 1 |
| 9 | 210258 | Audit Course 2 | 2 | BTID405 | Product Design Engineering | 2 |

| |
|--|
| Total Credits of Fourth Semester at SPPU, Pune - 25 |
|--|

- For students getting transferred to DBATU after passing all the subjects of Second Year at SPPU Pune: The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at SPPU Pune: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.
- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the

corresponding grade points will be same as per SPPU Pune for the subjects in which the student is passed from DBATU. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from SPPU Pune to DBATU ***

| |
|---|
| Total Marks (100) = End Semester Marks of DBATU * 1.66 |
|---|

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Equivalent Subjects of Second Year Computer Engineering from SRTMUN to DBATU

SEMESTER-III

| Sr. No. | SRTMUN Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|--------------------------------|-----------------------------------|--------|---|---------------------------------------|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | CI201 | Engineering Mathematics – III | 3 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2 | CI202 | Discrete Mathematics | 3 | BTCOC302 | Discrete Mathematics | 3 |
| 3 | CI203 | Data Structures | 5 | BTCOC402 | Data Structures | 3 |
| 4 | CI204 | Digital Systems | 4 | BTCOC305 | Digital Electronics & Microprocessors | 3 |
| 5 | CI205 | Engineering Economics | 3 | BTID405 | Product Design Engineering | 2 |
| 6 | CI206 | Programming Lab-I | 2 | BTCOL307 | HTML and JavaScript | 2 |
| 7 | CI207 | Professional Communication Skills | - | BTHM3401 | Basic Human Rights | 1 |

Total Credits of Third Semester at SRTMUN, Nanded - 20

SEMESTER-IV

| Sr. No. | SRTMUN Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|--------------------------------|--|--------|---|-------------------------------------|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | CI208 | Microprocessors & Microcontrollers | 4 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 2 | CI209 | Computer Algorithms | 3 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 3 | CI210 | System Programming | 3 | BTCOC403 | Operating Systems | 4 |
| 4 | CI211 | Object Oriented Programming with C++ | 4 | BTCOE404B | Object Oriented Programming in C++ | 3 |
| 5 | CI212 | Numerical Methods & Scientific Computing | 4 | BTCOE406B | Numerical Methods | 3 |
| 6 | CI213 | Programming Lab – II | 1 | BTCOL408 | Introduction to Data Science with R | 1 |
| 7 | CI214 | Mini Project – I | 2 | BTID405 | Product Design Engineering | 2 |

Total Credits of Fourth Semester at SRTMUN, Nanded - 21

- For students getting transferred to DBATU after passing all the subjects of Second Year at SRTMU, Nanded: The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at SRTMU, Nanded: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.
- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per SRTMU, Nanded for the subjects in which the student is passed from DBATU. The grade calculation for the subjects passed in DBATU will be as follows:

* **Grade Point Calculation for Students transferred from SRTMUN to DBATU**

*

Total Marks (100) = (INT of SRTMUN * 2) + End Semester Marks of DBATU

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE
Equivalent Subjects of Second Year Computer Engineering from Gondwana University to DBATU

SEMESTER-III

| Sr. No. | Gondwana U Subject (Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|------------------------------------|---|--------|---|--------------------------------------|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | CS301 | Applied Mathematics – III | 4 | BTBSC301 | Engineering Mathematics - III | 4 |
| 2 | CS302 | Electronics Devices & Circuits | 3 | BTCOC403 | Operating Systems | 4 |
| 3 | CS303 | Data Structures | 3 | BTCOC402 | Data Structures | 3 |
| 4 | CS304 | Object Oriented Programming | 3 | BTCOE404B | Object Oriented Programming in C++ | 3 |
| 5 | CS305 | Computer Architecture & Organization | 4 | BTCOC304 | Computer Architecture & Organization | 3 |
| 6 | CS306 | Electronics Devices & Circuits Laboratories | 2 | BTCOL410 | Operating System Lab | 1 |
| 7 | CS307 | Object Oriented Programming Laboratories | 2 | BTCOL309 | Object Oriented Programming Lab | 1 |
| 8 | CS308 | Data Structures Laboratories | 2 | BTCOL308 | Data Structures Lab | 1 |

Total Credits of Third Semester at Gondwana U – 23

SEMESTER-IV

| Sr. No. | Gondwana U Subject(Syll. 2018-19) | | | Equivalent Subject at DBATU (Syll. 2018-19) | | |
|---------|-----------------------------------|--|--------|---|---|--------|
| | Code | Subject | Credit | Code | Subject | Credit |
| 1 | CS401 | Applied Mathematics – IV | 4 | BTCOC402 | Probability & Statistics | 4 |
| 2 | CS402 | Digital Circuits & Fundamentals of Microprocessor | 3 | BTCOC305 | Digital Electronics & Microprocessor | 3 |
| 3 | CS403 | Database Management System | 3 | BTCOC401 | Design & Analysis of Algorithms | 3 |
| 4 | CS404 | System Programming | 4 | BTHM3402 | Soft Skills and Personality Development | 3 |
| 5 | CS405 | Theory of Computation | 4 | BTCOC302 | Discrete Mathematics | 3 |
| 6 | CS406 | Digital Circuits & Fundamentals of Microprocessor Laboratories | 2 | BTCOL307 | HTML and JavaScript | 2 |
| 7 | CS407 | Database Management System Laboratories | 2 | BTCOL407 | Design & Analysis of Algorithms Lab | 1 |
| 8 | CS408 | Computer Workshop | 2 | BTID405 | Product Design Engineering | 2 |

Total Credits of Fourth Semester at Gondwana U – 24

- For students getting transferred to DBATU after passing all the subjects of Second Year at Gondwana University: The CGPA will be carried forward and the credits earned will be considered at actual.
- For students getting transferred to DBATU after passing all the subjects of either Third or Fourth Semester at Gondwana University: The SGPA of such semester will be carried forward and the credits earned will be considered at actual. However, for the semester in which the student is failing in at least one of the subjects, this clause will not be applicable.
- For students getting transferred to DBATU failed in at least one of the subjects will have to appear for the equivalent subject of DBATU Lonere as mentioned in the table above. The Grades obtained and the corresponding grade points will be same as per Gondwana University for the subjects in which the student is passed from DBATU. The grade calculation for the subjects passed in DBATU will be as follows:

*** Grade Point Calculation for Students transferred from Gondwana University to
DBATU ***

Total Marks (100) = (INT of Gondwana University * 2) + End Semester Marks of DBATU