

Teaching and Evaluation Scheme for First Year B. Tech. (All Branches)

Group A

| Semester I | | | | | | | | | | |
|-------------|--|--|---|----|-------------------|-----|-----|-------|--------------------------------------|--|
| Course Code | Course Title | Teaching Scheme | | | Evaluation Scheme | | | | Credit | |
| | | L | T | P | CA | MSE | ESE | Total | | |
| Mandatory | Induction Program | 3-weeks duration in the beginning of semester. | | | | | | | | |
| BTBS101 | Engineering Mathematics- I | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 | |
| BTBS102 | Engineering Physics | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 | |
| BTES103 | Engineering Graphics | 2 | - | - | 20 | 20 | 60 | 100 | 2 | |
| BTHM104 | Communication Skills | 2 | - | - | 20 | 20 | 60 | 100 | 2 | |
| BTES105 | Energy and Environment Engineering | 2 | - | - | 20 | 20 | 60 | 100 | 2 | |
| BTES106 | Basic Civil and Mechanical Engineering | 2 | - | - | 50 | - | - | 50 | Audit | |
| BTBS107L | Engineering Physics Lab | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| BTES108L | Engineering Graphics Lab | - | - | 4 | 60 | - | 40 | 100 | 2 | |
| BTHM109L | Communication Skills Lab. | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| | | 14 | 2 | 8 | 330 | 100 | 420 | 850 | 18 | |
| Semester II | | | | | | | | | | |
| BTBS201 | Engineering Mathematics-II | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 | |
| BTBS202 | Engineering Chemistry | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 | |
| BTES203 | Engineering Mechanics | 2 | 1 | - | 20 | 20 | 60 | 100 | 3 | |
| BTES204 | Computer Programming in C | 3 | - | - | 20 | 20 | 60 | 100 | 3 | |
| BTES205 | Workshop Practices | - | - | 4 | 60 | - | 40 | 100 | 2 | |
| BTES206 | Basic Electrical and Electronics Engineering | 2 | - | - | 50 | - | - | 50 | Audit | |
| BTBS207L | Engineering Chemistry Lab | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| BTES208L | Engineering Mechanics Lab | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| BTES210S | Seminar | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| BTES211P | Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time). | - | - | - | - | - | - | - | Credits To be evaluate d in III Sem. | |
| | | 13 | 3 | 10 | 430 | 80 | 440 | 950 | 19 | |
| | | | | | | | | | 27 | |

Teaching and Evaluation Scheme for First Year B. Tech. (All Branches)

Group B

| | | Semester I | | | | | | | | |
|-------------|---|--|----|----|-------------------|-----|-----|-------|--------------------------------------|--|
| Course Code | Course Title | Teaching Scheme | | | Evaluation Scheme | | | | Credit | |
| | | L | T | P | CA | MSE | ESE | Total | | |
| Mandatory | Induction Program | 3-weeks duration in the beginning of semester. | | | | | | | | |
| BTBS101 | Engineering Mathematics- I | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 | |
| BTBS102 | Engineering Chemistry | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 | |
| BTES103 | Engineering Mechanics | 2 | 1 | - | 20 | 20 | 60 | 100 | 3 | |
| BTES104 | Computer Programming in C | 3 | - | - | 20 | 20 | 60 | 100 | 2 | |
| BTES105L | Workshop Practices | - | - | 4 | 60 | - | 40 | 100 | 2 | |
| BTES106 | Basic Electrical and Electronics Engineering | 2 | - | - | 50 | - | - | 50 | Audit | |
| BTBS107L | Engineering Chemistry Lab | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| BTES108L | Engineering Mechanics Lab | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| | | 13 | 03 | 10 | 370 | 80 | 400 | 850 | 18 | |
| | | 25 | | | | | | | | |
| | | Semester II | | | | | | | | |
| BTBS201 | Engineering Mathematics-II | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 | |
| BTBS202 | Engineering Physics | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 | |
| BTES203 | Engineering Graphics | 2 | - | - | 20 | 20 | 60 | 100 | 2 | |
| BTHM204 | Communication Skills | 2 | - | - | 20 | 20 | 60 | 100 | 2 | |
| BTES205 | Energy and Environment Engineering | 2 | - | - | 20 | 20 | 60 | 100 | 2 | |
| BTES206 | Basic Civil and Mechanical Engineering | 2 | - | - | 50 | - | - | 50 | Audit | |
| BTBS207L | Engineering Physics Lab | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| BTES208L | Engineering Graphics Lab | - | - | 3 | 60 | - | 40 | 100 | 2 | |
| BTHM209L | Communication Skills Lab. | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| BTES210S | Seminar | - | - | 2 | 60 | - | 40 | 100 | 1 | |
| BTES211P | Field Training / Internship/Industrial Training (minimum of 4 weeks which can be completed partially in first semester and second Semester or in at one time) | - | - | - | - | - | - | - | Credits To be evaluate d in III Sem. | |
| | | 14 | 02 | 09 | 390 | 100 | 460 | 950 | 19 | |
| | | 26 | | | | | | | | |

Sanjeevan Engineering & Technology Institute
Department of Civil Engineering
B. Tech 2021-2022

| Batch | PRN | Roll Call | Name | Mobile Number |
|-------|--------------------------|-----------|--------------------------------|---------------|
| B1 | PRN:1963151191002 | 1 | GURAV SOURABH HINDURAO | 8551807065 |
| | PRN:1963151191003 | 2 | SHINDE AKSHAY MAHADEV | 7066685143 |
| | PRN:1963151191004 | 3 | JAGADALE SWAROOP SACHIN | 9823737417 |
| | PRN:1963151191005 | 4 | RAJVARDHAN DHANANJAY JADHAV | 8080957969 |
| | PRN:1963151191009 | 5 | PATIL SURAJ SANJAY | 7030451269 |
| | PRN:1963151191010 | 6 | PATIL DIGVIJAY MANOHAR | 9112322734 |
| | PRN:1963151191021 | 7 | GOTAL MANOJ ANANDA | 7263918167 |
| | PRN:1963151191023 | 8 | KALANTRE SWAPNIL MAHADEV | 8850921191 |
| | PRN:1963151191026 | 9 | KOPARDE ANIKET ARJUN | 9561565250 |
| | PRN:1963151191027 | 10 | AKSHAY ANIL SHINGADE | 8007994959 |
| | PRN:1963151191028 | 11 | BHOSALE PANKAJ VISHWJEET | 9112182126 |
| | PRN:1963151191029 | 12 | SHAIKH HUJAIFA DINMOHAMMAD | 8625869599 |
| | PRN:1963151191030 | 13 | SHIVANI UTTAM LATWADE | 9561297613 |
| | PRN:1963151191032 | 14 | MAJGAONKAR MASIRA NAZIM | 7743949357 |
| | PRN:1963151191037 | 15 | PATIL HARSHAVARDHAN VISHWASRAO | 9689854403 |
| | PRN:1963151191039 | 16 | BHALKAR AKASH ANANT | 9823108989 |
| | PRN:1963151191041 | 17 | GADAGADE ROHAN ASHOK | 8515931840 |
| | PRN:1963151191042 | 18 | KHADE PRATHAMESH SHRIKANT | 7875527776 |
| B2 | PRN:1963151191043 | 19 | KURNE SHUBHAM AVDHOT | 7410797004 |
| | PRN:1963151191044 | 20 | PATIL PRATHMESH TANAJI | 9975450749 |
| | PRN:1963151191045 | 21 | GHATAGE TEJASHREE VIJAYSINH | 9765086512 |
| | PRN:1963151191047 | 22 | MORE SUDHIR SANJAY | 9689813082 |
| | PRN:1963151191054 | 23 | POWAR ONKAR ARUN | 9130239939 |
| | PRN:1963151191058 | 24 | CHOUGALE PRAJKATA PRAKASH | 7378867798 |
| | PRN:1963151191059 | 25 | SARNOBAT SNEHA UTTAM | 7028194941 |
| | PRN:1963151191060 | 26 | BHALEKAR MOHAN MARUTI | 8975862566 |
| | PRN:1963151191063 | 27 | HAROLE AKASH VIDYADHAR | 7798847037 |
| | PRN:1963151191064 | 28 | AVADHUT SHANKAR JADHAV | 7066499779 |
| | PRN:1963151191067 | 29 | RAHUL MADHUKAR BHOSALE | 8459840602 |
| | PRN:2063151191002 | 30 | KUMBHAR ONKAR SARJERAO | 8698331253 |
| | PRN:2063151191003 | 31 | JADHAV AJINKYA ASHOK | 7745013501 |
| | PRN:2063151191011 | 32 | ADHAV SHIVRAJ ARJUNRAO | 8390940076 |
| | PRN:2063151191016 | 33 | KAMBLE GURUDAS MARUTI | 9822646165 |
| | PRN:2063151191017 | 34 | KAMBLE ANIKET DEEPAK | 9960319270 |
| | PRN:51631520171119110014 | 35 | YADAV YASH SATISH | 7057141199 |
| | PRN:51631520171119110032 | 36 | PATIL PRAJWAL UDAY | 7038357272 |

Sanjeevan Engineering & Technology Institute
Department of Civil Engineering
B. Tech 2021-2022

| Batch | PRN | Roll Call | Name | Mobile Number | |
|--------------------------|--------------------------|--------------------------|-----------------------------|----------------------|------------|
| B3 | PRN:51631520181119110001 | 37 | CHOPADE ANUSHKA AJIT | 9527631148 | |
| | PRN:51631520181119110002 | 38 | DAREKAR KETAK SUBHASH | 9850911699 | |
| | PRN:51631520181119110003 | 39 | CHAVAN PRANAV PRAKASH | 9763809111 | |
| | PRN:51631520181119110004 | 40 | AYAREKAR RUTURAJ SHASHIKANT | 9881674064 | |
| | PRN:51631520181119110005 | 41 | PATIL OMKAR ASHOK | 9146463191 | |
| | PRN:51631520181119110006 | 42 | SUTAR DIPAK RAVINDRA | 7972780497 | |
| | PRN:51631520181119110007 | 43 | SANGAR ONKAR NANDKUMAR | 9168674166 | |
| | PRN:51631520181119110008 | 44 | GHAGARE TEJAS KRUSHNAT | 8788987171 | |
| | PRN:51631520181119110009 | 45 | JOUNDAL SAURABH DILIP | 9359872900 | |
| | PRN:51631520181119110010 | 46 | GAVALI SANKET KONDIRAM | 9923545895 | |
| | PRN:51631520181119110011 | 47 | KAMBLE RUTURAJ RAMCHANDRA | 9405203580 | |
| | PRN:51631520181119110012 | 48 | LAMBE ASHWINI ANIL | 9604971611 | |
| | PRN:51631520181119110013 | 49 | PATIL SANTOSH SHIRISH | 7767056022 | |
| | PRN:51631520181119110014 | 50 | TEJAS SANJAY MOLE | 8669741446 | |
| | PRN:51631520181119110015 | 51 | PATIL GANESH SARJERAO | 9579649967 | |
| | PRN:51631520181119110016 | 52 | DAKAVE ABHIJIT SARJERAO | 8379061269 | |
| | B4 | PRN:51631520181119110017 | 53 | JADHAV VIKRAM MOHAN | |
| | | PRN:51631520181119110018 | 54 | PATIL RAVIRAJ DINKAR | 8999625958 |
| PRN:51631520181119110019 | | 55 | AKSHAY MARUTI KAMBLE | 9130620865 | |
| PRN:51631520181119110020 | | 56 | KEDAR SARJERAO MORE | 9850591308 | |
| PRN:51631520181119110023 | | 57 | YADAV SAURABH JAYSING | 8766917394 | |
| PRN:51631520181119110024 | | 58 | PATIL AKASH SAMBHAJI | 8605088208 | |
| PRN:51631520181119110026 | | 59 | DESAI MUSKAN SHAKIL | 9689838362 | |
| PRN:51631520181119110027 | | 60 | PATIL PRATAPSINGH RAJENDRA | 7038079999 | |
| PRN:51631520181119110028 | | 61 | GAVANDI NEHA RAHUL | 9527711994 | |
| PRN:51631520181119110030 | | 62 | HULLE SHREYA SUNIL | 7757891575 | |
| PRN:51631520181119110031 | | 63 | KUMBHAR DHIRAJ DHONDIRAM | 9359473205 | |
| PRN:51631520181119110032 | | 64 | KONDE ROHAN TANAJI | 9764390501 | |
| PRN:51631520181119110041 | | 65 | PAWAR SHUBHAM RAJENDRA | 9921490424 | |
| PRN:51631520181119110042 | | 66 | DESAI RUSHIKESH PRAKASH | 9145763138 | |
| PRN:51631520181119110057 | | 67 | KSHITIJ KRISHNAT POWAR | 8308776005 | |
| PRN:51631520181119110058 | | 68 | ROHAN BAJIRAO VARPE | 9604936339 | |
| PRN:51631520181119110072 | | 69 | RAORANE RUTUJA ASHOK | 8805835461 | |
| PRN:51631520181119110073 | 70 | MAHIND DHIRAJ VIKAS | 9987995184 | | |
| PRN:51631520181119111001 | 71 | KADAM SHUBHAM KESHAV | 9763351418 | | |
| PRN:51631520181119111002 | 72 | KADAM NILESH BHIMRAO | 7038219797 | | |
| PRN:51631520181160210034 | 73 | DHAKANE RAHUL BANDU | 7040074036 | | |

Sanjeevan Engineering & Technology Institute

Department of Civil Engineering

Project Presentation 28/10/2021

B. Tech 2021-2022

| | | Sanjeevan Engineering & Technology Institute | | Department of Civil Engineering | | Project Presentation 28/10/2021 | | B. Tech 2021-2022 | | Guide | Present ation 1 marks |
|--------------------------|--|--|----------------------------|---------------------------------|--|---------------------------------|--|-------------------|--|-------|-----------------------|
| Group 1 | Porous Concrete | | | | | | | | | | |
| | PRN:51631520181119110028 | 61 | GAVANDI NEHA RAHUL | 9527711994 | | | | | | | 8 |
| | PRN:51631520181119110030 | 62 | HULLE SHREYA SUNIL | 7757891575 | | | | | | | 8 |
| | PRN:51631520181119110002 | 38 | DAREKAR KETAK SUBHASH | 9850911699 | | | | | | | 8 |
| | PRN:51631520181119110073 | 70 | MAHIND DHIRAJ VIKAS | 9987995184 | | | | | | | 8 |
| | | 53 | Jadhav Mohan | | | | | | | | |
| Group 2 | Retrofitting of Structural Components | | | | | | | | | | |
| | PRN:1963151191028 | 11 | BHOSALE PANKAJ VISHWJEET | 9112182126 | | | | | | | 8 |
| | PRN:1963151191030 | 13 | SHIVAM UTTAM LATWADE | 9561297613 | | | | | | | 8 |
| | PRN:1963151191045 | 21 | GHATAGE TEJASHREE VIJAYSHI | 9765086512 | | | | | | | 8 |
| | PRN:51631520181119110023 | 57 | YADAV SAURABH JAYSING | 8766917394 | | | | | | | 8 |
| PRN:51631520181119110072 | 69 | RAORANE RUTUJA ASHOK | 8805835461 | | | | | | | 8 | |
| | | | mishra/ shubham. | | | | | | | | |
| Group 3 | Zero Energy Building | | | | | | | | | | |
| | PRN:51631520181119110057 | 67 | KSHITIJ KRISHNAT POWAR | 8308776005 | | | | | | | 6 |
| | PRN:51631520181119110009 | 45 | JOUNDAL SAURABH DILIP | 9359872900 | | | | | | | 6 |
| | PRN:51631520181119110032 | 64 | KONDE ROHAN TANAJI | 9764390501 | | | | | | | 6 |
| | PRN:1963151191060 | 26 | BHALEKAR MOHAN MARUTI | 8975862566 | | | | | | | 6 |
| PRN:51631520181119110019 | 55 | AKSHAY MARUTI KAMBLE | 9130620865 | | | | | | | 6 | |
| Group 4 | Investigating Mix proportionation of High Strength Self Compacting Concrete | | | | | | | | | | |
| | PRN:1963151191023 | 8 | KALANTRE SWAPNIL MAHADEV | 8850921191 | | | | | | | 7 |
| | PRN:1963151191063 | 27 | HAROLE AKASH VIDYADHAR | 7798847037 | | | | | | | 7 |
| | PRN:1963151191047 | 22 | MORE SUDHIR SANJAY | 9689813082 | | | | | | | 7 |
| | PRN:1963151191041 | 17 | GADAGADE ROHAN ASHOK | 8515931840 | | | | | | | 7 |
| PRN:1963151191064 | 28 | AVADHUT SHANKAR JADHAV | 7066499779 | | | | | | | 0 | |

Mohan

[Signature]

Sanjeevan Engineering & Technology Institute

Department of Civil Engineering

Project Presentation 28/10/2021

B. Tech 2021-2022

| | | Guide | Present aition 1 marks |
|----------------|--|------------------------------|------------------------|
| Group 5 | Experimental study of fiber reinforced concrete on PVA fiber | | |
| | PRN:51631520181119110003 | 39 CHAVAN PRANAV PRAKASH | 9763809111 |
| | PRN:51631520181119110004 | 40 AYAREKAR RUTURAJ SHASHIKA | 9881674064 |
| | PRN:51631520181119110010 | 46 GAVALI SANKET KONDIRAM | 9923545895 |
| | PRN:51631520181119110014 | 50 TEJAS SANJAY MOLE | 8669741446 |
| | PRN:51631520181119110015 | 51 PATIL GANESH SARJERAO | 9579649967 |
| | PRN:51631520181119111002 | 72 KADAM NILESH BHIMRAO | 7038219797 |
| Group 6 | Garden City | | |
| | PRN:51631520181119110006 | 42 SUTAR DIPAK RAVINDRA | 7972780497 |
| | PRN:51631520181119110005 | 41 PATIL OMKAR ASHOK | 9146463191 |
| | PRN:51631520181119110007 | 43 SANGAR ONKAR NANDKUMAR | 9168674166 |
| | PRN:51631520181119111001 | 71 KADAM SHUBHAM KESHAV | 9763351418 |
| | PRN:51631520181119110058 | 68 ROHAN BAJIRAO VARPE | 9604936339 |
| | PRN:51631520181119110013 | 49 PATIL SANTOSH SHIRISH | 7767056022 |
| Group 7 | To study of Exploiting waste material as alternative for conventional paver blocks | | |
| | PRN:2063151191002 | 30 KUMBHAR ONKAR SARJERAO | 8698331253 |
| | PRN:2063151191017 | 34 KAMBLE ANIKET DEEPAK | 9960319270 |
| | PRN:2063151191016 | 33 KAMBLE GURUDAS MARUTI | 9822646165 |
| Group 8 | Structural Light weight concrete using artificial aggregates or light weight aggregates | | |
| | PRN:1963151191003 | 2 SHINDE AKSHAY MAHADEV | 7066685143 |
| | PRN:1963151191004 | 3 JAGADALE SWAROOP SACHIN | 9823737417 |
| | PRN:51631520181119110016 | 52 DAKAVE ABHIJIT SARJERAO | 8379061269 |
| | PRN:51631520181119110018 | 54 PATIL RAVIRAJ DINKAR | 8999625958 |
| | PRN:51631520181119110026 | 59 DESAI MUSKAN SHAKIL | 9689838362 |
| | | A. N. DHENDE | 7 |
| | | E. P. SALOKHE | 5 |
| | | E. P. SALOKHE | 5 |
| | | E. P. SALOKHE | 5 |
| | | A. C. THOKE | 7 |
| | | | 7 |

B. Botwode Divanijhar 95612976



Sanjeevan Engineering & Technology Institute
 Department of Civil Engineering
 Project Presentation 28/10/2021
 B. Tech 2021-2022

| Group | PRN | Topic | Roll No | Guide | Present ation 1 marks |
|-----------------|--|----------------------------|------------|----------------|-----------------------|
| Group 9 | 65 | PAWAR SHUBHAM RAJENDRA | 9921490424 | J. S. MEVEKARI | 7 |
| | 60 | PATIL PRATAPSINGH RAJENDRA | 7038079999 | | 7 |
| | 44 | GHAGARE TEJAS KRUSHNAT | 8788987171 | | 7 |
| | | | | | |
| Group 10 | Treatment of waste water by wetland plant | | | | |
| | 7 | GOTAL MANOJ ANANDA | 7263918167 | | 6 |
| | 9 | KOPARDE ANIKET ARJUN | 9561565250 | | 6 |
| | 24 | CHOUGALE PRAJKATA PRAKAS | 7378867798 | | 6 |
| | 25 | SARNOBAT SNEHA UTTAM | 7028194941 | | 6 |
| | 37 | CHOPADE ANUSHKA AJIT | 9527631148 | | 6 |
| Group 11 | Application of iron slag in concrete | | | | |
| | 66 | DESAI RUSHIKESH PRAKASH | 9145763138 | | 7 |
| | 5 | PATIL SURAJ SANJAY | 7030451269 | | 7 |
| | 6 | PATIL DIGVIJAY MANOHAR | 9112322734 | A. M. MOMIN | 7 |
| | 63 | KUMBHAR DHIRAJ DHONDIRAN | 9359473205 | | 7 |
| | 48 | LAMBE ASHWINI ANIL | 9604971611 | | 7 |
| Group 12 | PET Plastic Reinforced Roofing Tiles | | | | |
| | 15 | PATIL HARSHAVARDHAN VISHW | 9689854403 | | 5 |
| | 36 | PATIL PRAJWAL UDAY | 7038357272 | | 5 |
| | 35 | YADAV YASH SATISH | 7057141199 | J. J. GAVADE | 5 |
| | 4 | RAJVARDHAN DHANANJAY JAD | 8080957969 | | 5 |
| | 16 | BHALKAR AKASH ANANT | 9823108989 | | 5 |
| | 56 | KEDAR SARJERAO MORE | 9850591308 | | 5 |


 Sanjeevan Engineering & Technology Institute
 Somwar Peth, Panhala, L.S.T. Kottawar, (415200)

Sanjeevan Engineering & Technology Institute

Department of Civil Engineering

Project Presentation 28/10/2021

B. Tech 2021-2022

| Group | PRN | Roll Call | Name | Mobile Number | Guide | Present ation 1 marks |
|-------------------------------|---|--------------------------|------------------------|---------------|------------------------|-----------------------------|
| Group 13 <i>600</i> | Manufacture of Flyash Bricks using Sodium silicate | | | | | |
| | 58 | PATIL AKASH SAMBHAJI | 8605088208 | | S. S. CHAVAN | 5 |
| | 20 | PATIL PRATHMESH TANAJI | 9975450749 | | | 0 |
| | 47 | KAMBLE RUTURAJ RAMCHAND | 9405203580 | | | 5 |
| | 73 | DHAKANE RAHUL BANDU | 7040074036 | | | 5 |
| 29 | RAHUL MADHUKAR BHOSALE | 8459840602 | | 5 | | |
| Group 14 | Artificial Sand as a fine Aggregates | | | | | |
| | 23 | POWAR ONKAR ARUN | 9130239939 | | A. N. DHENDE | 5 |
| | 12 | SHAIKH HUJAIFA DINMOHAMM | 8625869599 | | | 5 |
| | 10 | AKSHAY ANIL SHINGADE | 8007994959 | | | 5 |
| | 1 | GURAV SOURABH HINDURAO | 8551807065 | | | 5 |
| 18 | KHADE PRATHAMESH SHRIKAN | 7875527776 | | 0 | | |
| Group 15 | A study of Fire and safty syystem in commercial and residential building | | | | | |
| | 19 | KURNE SHUBHAM AVDHOOT | 7410797004 | | <i>J. J.</i> GAVADE | 5 |
| | 14 | MAJGAONKAR MASIRA NAZIM | 7743949357 | | | 5 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| Student not attended | | | | | | |
| PRN | | | | | | |
| | | Roll Call | Name | Mobile Number | | |
| | | 32 | ADHAV SHIVRAJ ARJUNRAO | 8390940076 | | 0 |
| | | 31 | JADHAV AJINKYA ASHOK | 7745013501 | | 0 |
| | | 53 | JADHAV VIKRAM MOHAN | | | 0 |

Shresh
Project coordinator

J. J.
HOD
GAVADE

28/10/

Sanjeevan Engineering & Technology Institute, Panhala
Department of Civil Engineering

Project 2021-2022

Project Group: 1.

ppt 4
presentations 2
D.C. 21
Att 21

Title of project: Porous Concrete

Student:

Repeat

| | | | | | | | |
|---|--------|---------|----------|---|---|---|---|
| 1 | Neha | Rahul | Gravanli | 4 | 1 | 1 | 0 |
| 2 | Shreya | Sunil | Hulle | 4 | 1 | 1 | 0 |
| 3 | Dhiraj | Vikas | Mahind | 4 | 1 | 1 | 0 |
| 4 | Ketak | Subhash | Darekar | 4 | 1 | 1 | 0 |
| 5 | Vikram | Mohan | Jadhav | 4 | 1 | 1 | 0 |
| 6 | | | | | | | |

Sanjeevan Engineering & Technology Institute, Panhala
Department of Civil Engineering

Project 2021-2022

Project Group: 2

Title of project: "Retrofitting of structural component."

Student:

ppt 4
presentations 2
D.C. 2
Att 0

| | | | | | | | |
|---|-----------|------------|---------|---|---|---|---|
| 1 | Pankaj | Nishwajeet | Bhosale | 3 | 1 | 1 | 1 |
| 2 | Shivani | Uttam | Latwade | 3 | 1 | 1 | 1 |
| 3 | Tejashree | Vijaysinh | Ghatage | 3 | 1 | 1 | 1 |
| 4 | Saurabh | Jaysinh | Yadav | 3 | 1 | 1 | 1 |
| 5 | Rutuja | Ashok | Raorane | 3 | 1 | 1 | 1 |
| 6 | | | | | | | |

Date : 21/09/2021

Notice 1

All B. Tech Final year students are informed to present on 09th October 2021 for project presentation in Lecture hall 106 from 10:00 am to 1:00 pm. This presentation focus on topic finalisation and literature review. PPT given after 10:00 am will not be allowed for presentation and such students will be considered as absent.

All are informed to be in formals.

Topic: Topic finalisation and literature review



Project Coordinator



HOD
Civil Engineering
Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur, 416 201

Date :11/10/2021

Notice 2

All B. Tech Final year students are informed to present on 28th October 2021 for project presentation in Lecture hall 106 from 10:00 am to 1:00 pm. PPT given after 10:00 am will not be allowed for presentation and such students will be considered as absent. All are informed to be in formals.

Topic: continuous assessment of ongoing work



Project Coordinator



HOD
Civil Engineering
Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

Date :02/11/2021

Notice 3

All B. Tech Final year students are informed to present on 03rd December 2021 for project presentation in Lecture hall 106 from 10:00 am to 1:00 pm. PPT given after 10:00 am will not be allowed for presentation and such students will be considered as absent. All are informed to be in formals.

Topic: continuous assessment phase one complete


Project Coordinator


HOD
Civil Engineering
Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur, (416 201)

DEPARTMENT OF CIVIL ENGINEERING

Date :01/01/2021

Notice 4

All B. Tech Final year students are informed to present on 8th January 2022 for project presentation in Lecture hall 106 from 10:00 am to 1:00 pm. PPT given after 10:00 am will not be allowed for presentation and such students will be considered as absent. All are informed to be in formals.

Topic: continuous assessment on casting/modelling /testing of respective project



Project Coordinator



HOD
Civil Engineering
Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

Date : 02/02/2021

Notice 5

All B. Tech Final year students are informed to present on 12th February 2022 for project presentation in Lecture hall 106 from 10:00 am to 1:00 pm. PPT given after 10:00 am will not be allowed for presentation and such students will be considered as absent. All are informed to be in formals.

Topic: continuous assessment on result and modification required



Project Coordinator



HOD
Civil Engineering

Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur, (416 201)



Holy-wood Academy, Kolhapur's

SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE

Sanjeevan Knowledge City, Somwar Peth- Injola, Panhala, Tal. Pant ala, Dist. Kolhapur Pin- 416 201 (MS.)
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EN 6315

DEPARTMENT OF CIVIL ENGINEERING

Project Guide Prof. S. S. CHAVAN

Title : **Porous Concrete**

Description:

| Academic Year 2021 -2022 | | Topic Presentation (10) | | | Topic Refinement & Literature Review | | | | Problem Definition | | Methodology | Solution | Total 50 |
|--------------------------|-----------------------|-------------------------|-----------------|-----------------|--------------------------------------|-----------------|-----------------|----|--------------------|----|-----------------|----------|----------|
| Roll no | Name of Students | 1 st | 2 nd | 3 rd | 4 th | 5 th | 5 th | 10 | 4 th | 5m | 5 th | 10m | Total 50 |
| 61 | GAVANDI NEHA RAHUL | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5m | 5 th | 10m | 41 |
| 62 | HULLE SHREYA SUNIL | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5m | 5 th | 10m | 41 |
| 38 | DAREKAR KETAK SUBHASH | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5m | 5 th | 10m | 41 |
| 70 | MAHIND DHIRAJ VIKAS | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5m | 5 th | 10m | 41 |
| 53 | JADHAV VIKRAM MOHAN | 5 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 5m | 5 th | 10m | 40 |

Remarks

Shivan
Project Guide

Shivan
Project Coordinator

Shivan
HOD

Civil Engineering
Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur. (416 201)



Holy-wood Academy, Kolhapur's

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EN 6315

DEPARTMENT OF CIVIL ENGINEERING

Project Guide Prof. A. M. MOMIN

Title : **Retrofitting of Structural Components**

Description:

| Roll no | Name of Students | Topic Presentation (10) | Topic Refinement & Literature Review | | | Problem Definition | Methodology | Solution | Total 50 |
|---------|-----------------------------|-------------------------|--------------------------------------|--------------------|--------------------|--------------------|-------------|----------|----------|
| | | | 1 st 5m | 2 nd 5m | 3 rd 5m | | | | |
| 11 | BHOSALE PANKAJ VISHWJEET | 8 | 5 | 4 | 4 | 4 | 8 | 10m | 39 |
| 13 | SHIVANI UTTAM LATWADE | 8 | 5 | 4 | 4 | 4 | 8 | 6 | 39 |
| 21 | GHATAGE TEJASHREE VIJAYSINH | 8 | 5 | 4 | 4 | 4 | 8 | 6 | 39 |
| 57 | YADAV SAURABH JAYSING | 8 | 5 | 4 | 4 | 4 | 8 | 6 | 39 |
| 69 | RAORANE RUTUJA ASHOK | 8 | 5 | 4 | 4 | 4 | 8 | 6 | 39 |

Remarks

Project Guide


Project Coordinator


HOD

Civil Engineering

Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

Sanjeevan Engineering & Technology Institute, Panhala
Department of Civil Engineering

11-04-2022

Notice 1

All B. Tech last year students are informed to submit their project completion status by 13th of April 2022 with their respective guide.

All are required to submit the completion status and the near date of completion. Its compulsory form department to participate and present the project in any one project compitation.



Project coordinator
Shrivallabh Chavan



HOD
Civil Engineering
Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur. (416 201)

DEPARTMENT OF CIVIL ENGINEERING

Date : 18/04/2022

Notice 2

All B. Tech Final year students are informed to present on 12th May 2022 for project presentation in Lecture hall 106 from 10:00 am to 1:00 pm. PPT given after 10:00 am will not be allowed for presentation and such students will be considered as absent. All are informed to be in formals.

Topic: continuous assessment on result and modification required



Project Coordinator



HOD
Civil Engineering

Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur. (416, 201)

DEPARTMENT OF CIVIL ENGINEERING

Date: 17/05/2022

Notice 3

All B. Tech Final year students are informed to present on 09th June 2022 for project presentation in Lecture hall 106 from 10:00 am to 1:00 pm. PPT given after 10:00 am will not be allowed for presentation and such students will be considered as absent. All are informed to be in formals.

Topic: continuous assessment on result and modification required



Project Coordinator



HOD
Civil Engineering

Sanjeevan Engineering & Technology Institute
Somwar Peth, Panhala, Dist. Kolhapur (416 201)



Holy-wood Academy, Kolhapur's

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EN 6315

DEPARTMENT OF CIVIL ENGINEERING

Project Guide Prof. S. S. CHAVAN

Title : **Porous Concrete Block**

Description: concrete block made of porous concrete (no fine concrete) will be evaluated for strength and permeability

| Roll no | Academic Year 2021 -2022 | Name of Students | Routing meet with guide | | | | | Event Participation | Prefinal Presentation | Final Presentation | Total 50 |
|---------|--------------------------|-----------------------|-------------------------|---|---|---|---|---------------------|-----------------------|--------------------|----------|
| | | | 5 | 5 | 5 | 5 | 5 | | | | |
| 61 | | GAVANDI NEHA RAHUL | 4 | 4 | 5 | 5 | 7 | 5/31/2022 | -6-2022 | 43 | |
| 62 | | HULLE SHREYA SUNIL | 4 | 4 | 5 | 5 | 7 | 9 | 9 | 43 | |
| 38 | | DAREKAR KETAK SUBHASH | 4 | 4 | 5 | 5 | 7 | 9 | 9 | 43 | |
| 70 | | MAHIND DHIRAJ VIKAS | 4 | 4 | 5 | 5 | 7 | 9 | 9 | 43 | |
| 53 | | JADHAV VIKRAM MOHAN | 4 | 5 | 5 | 5 | 5 | 8 | 8 | 40 | |

Remarks

Project Guide

Project Coordinator

HOD



Holy-wood Academy, Kolhapur's

SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE

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EN 6315

DEPARTMENT OF CIVIL ENGINEERING

Project Guide

Prof. A. M. MOMIN

Title : **Retrofitting of Structural Components**

Description:

| Roll no | Name of Students | Routing meet with guide | | | | | Event Participation | Prefinal Presentation | Final Presentation | Total 50 |
|---------|-----------------------------|-------------------------|---|---|---|---|---------------------|-----------------------|--------------------|----------|
| | | 5 | 5 | 5 | 5 | 5 | | | | |
| 11 | BHOSALE PANKAJ VISHWJEET | 4 | 4 | 5 | 5 | 5 | 5/31/2022 | -6-2022 | | |
| 21 | GHATAGE TEJASHREE VIJAYSINH | 4 | 4 | 5 | 5 | 5 | 7 | 8 | 36 | |
| 57 | YADAV SAURABH JAYSING | 4 | 4 | 5 | 5 | 5 | 7 | 8 | 40 | |
| 69 | RAORANE RUTUJA ASHOK | 4 | 4 | 5 | 5 | 5 | 7 | 8 | 36 | |
| 19 | KURNE SHUBHAM AVDHOOT | 4 | 4 | 5 | 5 | 5 | 7 | 8 | 40 | |
| 14 | MAJGAONKAR MASIRA NAZIM | 4 | 4 | 5 | 5 | 5 | 7 | 8 | 36 | |
| | | | | | | | | | | |

Remarks

Project Guide

Project Coordinator

HOD

1.3.2 (Qnm): Project work/field work/internship/industrial training:
 Syllabus highlighting above titles

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Semester - VII

| Sr. No. | Course Code | Course Title | Weekly Teaching hrs | | | Evaluation Scheme | | | Credit |
|--------------|-------------|--|---------------------|----------|-----------|-------------------|-----------|------------|-----------|
| | | | L | T | P | CA | MSE | ESE | |
| 1 | BTCOC701 | Software Engineering | 3 | - | - | 20 | 20 | 60 | 3 |
| 2 | BTCOE702 | Elective - VIII (A) Big Data Analytics (B) Distributed System (C) Fundamental of Digital Image Processing | 3 | - | - | 20 | 20 | 60 | 3 |
| 3 | BTCOE703 | Elective - IX (A) Cloud Computing (B) Business Intelligence (C) Natural Language Processing | 3 | - | - | 20 | 20 | 60 | 3 |
| 4 | BTCOE704 | Open Elective - X (A) Blockchain Technology (B) Computer Graphics (C) Embedded Systems (D) Design Thinking | 3 | - | - | 20 | 20 | 60 | 3 |
| 5 | BTCOL705 | Full Stack Development (LAMP / MEAN) | 1 | - | 2 | 60 | - | 40 | 2 |
| 6 | BTCOL706 | System Administration | 1 | - | 2 | 60 | - | 40 | 2 |
| 7 | BTCOL707 | Elective – VIII Lab | - | - | 2 | 60 | - | 40 | 1 |
| 8 | BTCOL708 | Elective – IX Lab | - | - | 2 | 60 | - | 40 | 1 |
| 9 | BTCOP709 | Project phase - I | - | - | 2 | 60 | - | 40 | 1 |
| 10 | BTCOP609 | Field Training / Internship / Industrial Training | - | - | - | - | - | 50 | 1 |
| TOTAL | | | 14 | - | 10 | 380 | 80 | 490 | 20 |

BTCOP709: Project Phase – I

Guidelines for the project phase – I:

The project should enable the students to combine the theoretical and practical concepts studied in his / her academics. The project work should enable the students to exhibit their ability to work in a team, develop planning and execute skills and perform analyzing and trouble shooting of their respective problem chosen for the project. The students should be able to write technical report, understand the importance of teamwork and group task. The students will get knowledge about literature survey, problem definition, its solution, and method of calculation, trouble shooting, costing, application and scope for future development.

Project work:

The project work is an implementation of learned technology. The knowledge gained by studying various subjects separately supposed to utilize as a single task. A group of 03/04 students will have to work on assigned work. The topic could be a product design, specific equipment, live industrial problem etc. The project work involves experimental/theoretical/computational work. It is expected to do necessary literature survey by referring current journals belonging to Information Technology reference books and internet. After finalization of project, requisites like equipments, data, tools etc. should be arranged.

Project Activity:

The project groups should interact with guide, who in turn advises the group to carry various activities regarding project work on individual and group basis. The group should discuss the progress every week in the project hours and follow further advice of the guide to continue progress. Guide should closely monitor the work and help the students from time to time. The guide should also maintain a record of continuous assessment of project work progress on weekly basis.

Phase - I:

1. Submission of project/problem abstract containing problem in brief, requirements, broad area, applications, approximate expenditure if required etc.
2. Problem definition in detail.
3. Literature survey.
4. Requirement analysis.
5. System analysis (Draw DFD up to level 2, at least).
6. System design, Coding/Implementation (20 to 30%).

Semester – VIII

| Sr. No. | Course Code | Course Title | Weekly Teaching hrs | | | Evaluation Scheme | | | Credit |
|--------------|-------------|--|---------------------|----------|-----------|-------------------|-----------|------------|-----------|
| | | | L | T | P | CA | MSE | ESE | |
| 1 | BTCOE801 | Elective – XI * | 3 | - | - | 20 | 20 | 60 | 3 |
| 2 | BTCOE802 | Open Elective – XII * | 3 | - | - | 20 | 20 | 60 | 3 |
| 3 | BTCOE803 | Project phase - II (In-house) § / Internship and project in the Industry | - | - | 24 | 60 | - | 40 | 12 |
| TOTAL | | | 6 | - | 24 | 100 | 40 | 160 | 18 |

These subjects are to be studied on self-study mode using SWAYAM/ NPTEL. The list of self-study online courses is given below.

The list of self-study online courses

| | |
|------------------------------|--|
| BTCOE801: Elective – XI * | BTCOE802: Open Elective – XII * |
| (A) Deep Learning | (A) Introduction to Industry 4.0 and Industrial Internet of Things |
| (B) Social Networks | (B) Cryptography and Network Security ## |
| (C) Randomized Algorithms ## | (C) Model Checking |

* Six months of Internship and Project in the industry.

§ This is for those students who are not doing Internship and project in the Industry, they can do project in the department.

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Semester - IV

| Sr. No. | Course Code | Course Title | Weekly Teaching hrs | | | Evaluation Scheme | | | Credit |
|--------------|-------------|---|---------------------|----------|-----------|-------------------|------------|------------|----------------------------------|
| | | | L | T | P | CA | MSE | ESE | |
| 1 | BTCOC401 | Design & Analysis of Algorithms | 2 | 1 | - | 20 | 20 | 60 | 3 |
| 2 | BTCOC402 | Probability & Statistics | 2 | 1 | - | 20 | 20 | 60 | 3 |
| 3 | BTCOC403 | Operating Systems | 2 | 1 | - | 20 | 20 | 60 | 3 |
| 4 | BTCOE404 | Elective - I (A) Object Oriented Programming in Java (B) Object Oriented Programming in C++ | 2 | 1 | - | 20 | 20 | 60 | 3 |
| 5 | BTID405 | Product Design Engineering | 1 | - | 2 | 60 | - | 40 | 2 |
| | | Elective - II | | | | | | | |
| 6 | BTBS405A | Physics of Engineering Materials | 2 | 1 | - | 20 | 20 | 60 | 3 |
| | BTCOE406B | Numerical Methods | | | | | | | |
| | BTHM3402 | Soft skills and Personality Development | | | | | | | |
| 7 | BTCOL407 | Design & Analysis of Algorithms Lab | - | - | 2 | 60 | - | 40 | 1 |
| 8 | BTCOL408 | Introduction to Data Science with R | 1 | - | 2 | 60 | - | 40 | 2 |
| 9 | BTCOL409 | Object Oriented Programming Lab | - | - | 2 | 60 | - | 40 | 1 |
| 10 | BTCOL410 | Operating System Lab | - | - | 2 | 60 | - | 40 | 1 |
| 11 | BTCOF411 | Field Training / Internship / Industrial Training Evaluation | - | - | - | - | - | - | Credit to be evaluated in V Sem. |
| TOTAL | | | 11 | 5 | 10 | 400 | 100 | 500 | 22 |

Semester – VI

| Sr. No. | Course Code | Course Title | Weekly Teaching hrs | | | Evaluation Scheme | | | Credit |
|--------------|-------------|--|---------------------|----------|----------|-------------------|------------|------------|------------------------------------|
| | | | L | T | P | CA | MSE | ESE | |
| 1 | BTCOC601 | Compiler Design | 3 | 1 | - | 20 | 20 | 60 | 4 |
| 2 | BTCOC602 | Computer Networks | 3 | 1 | - | 20 | 20 | 60 | 4 |
| 3 | BTCOE603 | Elective – V (A) Human Computer Interaction (B) Artificial Intelligence (C) Object-Oriented Analysis Design | 2 | 1 | - | 20 | 20 | 60 | 3 |
| 4 | BTCOE604 | Elective – VI (A) Geographical Information System (B) Biology (C) Internet of Things | 2 | - | - | 20 | 20 | 60 | 2 |
| 5 | BTCOE605 | Elective – VII (A) Development Engineering (B) National Social Service (C) Consumer Behaviour | 2 | - | - | 20 | 20 | 60 | 2 |
| 6 | BTCOC606 | Competitive Programming-II | 1 | - | 2 | 60 | - | 40 | 2 |
| 7 | BTCOL607 | (A) Mobile Application Development OR (A) Internet of Things Laboratory | 1 | - | 2 | 60 | - | 40 | 2 |
| 8 | BTCOL608 | Computer Networks Laboratory | - | - | 2 | 60 | - | 40 | 1 |
| 9 | BTCOF609 | Field Training / Internship / Industrial Training | - | - | - | - | - | - | Credit to be Evaluated in VII Sem. |
| TOTAL | | | 14 | 3 | 6 | 280 | 100 | 420 | 20 |

BTCOE604 (C): Internet of Things: Content of this subject is updated. Pl. find below the updated content.

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Semester - VII

| Sr. No. | Course Code | Course Title | Weekly Teaching hrs | | | Evaluation Scheme | | | Credit |
|--------------|-------------|--|---------------------|----------|-----------|-------------------|-----------|------------|-----------|
| | | | L | T | P | CA | MSE | ESE | |
| 1 | BTCCO701 | Software Engineering | 3 | - | - | 20 | 20 | 60 | 3 |
| 2 | BTCCO702 | Elective - VIII (A) Big Data Analytics (B) Distributed System (C) Fundamental of Digital Image Processing | 3 | - | - | 20 | 20 | 60 | 3 |
| 3 | BTCCO703 | Elective - IX (A) Cloud Computing (B) Business Intelligence (C) Natural Language Processing | 3 | - | - | 20 | 20 | 60 | 3 |
| 4 | BTCCO704 | Open Elective - X (A) Blockchain Technology (B) Computer Graphics (C) Embedded Systems (D) Design Thinking | 3 | - | - | 20 | 20 | 60 | 3 |
| 5 | BTCCOL705 | Full Stack Development (LAMP / MEAN) | 1 | - | 2 | 60 | - | 40 | 2 |
| 6 | BTCCOL706 | System Administration | 1 | - | 2 | 60 | - | 40 | 2 |
| 7 | BTCCOL707 | Elective – VIII Lab | - | - | 2 | 60 | - | 40 | 1 |
| 8 | BTCCOL708 | Elective – IX Lab | - | - | 2 | 60 | - | 40 | 1 |
| 9 | BTCCOP709 | Project phase - I | - | - | 2 | 60 | - | 40 | 1 |
| 10 | BTCCOP609 | Field Training / Internship / Industrial Training | - | - | - | - | - | 50 | 1 |
| TOTAL | | | 14 | - | 10 | 380 | 80 | 490 | 20 |

BTCOF609: Field Training / Internship / Industrial Training

Guidelines for Field Training / Internship / Industrial Training Industrial Training:

1. To apply for a suitable Industrial Training, submit an application form to respective organization concerned one semester before the Industrial Training Programme commences.
2. Student can also apply through online platforms such as Internshala for industrial training.
3. Submit one copy of the offer letter for the Industrial Training to the Head of the department or Faculty coordinator (Industrial Training).
4. To complete the Industrial Training process within the specified time based on the Industrial Training Programme schedule.
5. Assessment within the Industrial Training context aims to evaluate the student's work quality and appropriateness to the field of study with reference to the learning outcomes of the Industrial Training Programme.
6. Evaluation of the students' performance should be done in the next upcoming semester.
7. Those students who fails, they can also complete online certification courses which are available at free of cost on various MOOC platforms.



Holy-wood Academy, Kolhapur's

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DEPARTMENT OF ELECTRICAL ENGINEERING

1.3.2 (Qnm): field work/internship/industrial training:
Syllabus highlighting above titles

Dr. Babasaheb Ambedkar Technological University, Lonere.

B.Tech (Electrical Engineering / Electrical Engineering (Electronics and Power)/ Electrical & Electronics Engg / Electrical & Power Engineering)

Curriculum of Second Year

Semester III

| Course Category | Course Code | Course Title | Teaching Scheme | | | Evaluation Scheme | | | | Credit |
|-----------------|-------------|--|-----------------|---|---|-------------------|-----|-----|-------|--------------|
| | | | L | T | P | CA | MSE | ESE | Total | |
| BSC | BTBS301 | Engineering Mathematics-III | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC1 | BTEEC302 | Electrical Machines-I | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC2 | BTEEC303 | Electrical and Electronics Measurement | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| HSSMC | BTHM304 | Basic Human Rights | 2 | - | - | | | | | Audit |
| ESC | BTES305 | Engineering Material Science | 3 | - | - | 20 | 20 | 60 | 100 | 3 |
| LC | BTEEL306 | Electrical Machines-I Lab | | | 2 | 60 | | 40 | 100 | 1 |
| LC | BTEEL307 | Electrical and Electronics Measurement Lab | | | 2 | 60 | | 40 | 100 | 1 |
| Project | BTEEP308 | Mini Project-I | | | 4 | 60 | | 40 | 100 | 2 |
| Internship | BTES211P | Internship-I Evaluation | | | | | | 50 | 50 | 1 |
| | | | 14 | 3 | 8 | 260 | 80 | 410 | 750 | 20 |

BTEEP308 Miniproject-I

2 Credits

Guidelines:

| Stages | Work to be carried | Time |
|------------|--|----------------|
| I | <ul style="list-style-type: none"> Selection of a mini viable project idea (Hardware or Software Based) on recent trends in Electrical Engineering. | 4 hours |
| II | <ul style="list-style-type: none"> Study various resources and components in electrical engineering projects Application of those components in Selected Project | 6 hours |
| III | <ul style="list-style-type: none"> Study of Circuit Diagram Study datasheet of basic circuit components of a project Study various software in building of project like SCILAB, MATLAB or other circuit Simulator | 6 hours |
| IV | <ul style="list-style-type: none"> Designing of PCB for selected Project once tested on breadboard | 4 hours |

| | | |
|-----------|--|----------------|
| V | <ul style="list-style-type: none">• Verification of the results obtained of the working model or the simulation results.• Compare with desired results and take corrective action | 4 hours |
| VI | <ul style="list-style-type: none">• Completion of project by developing the Project Report and submitting the report to the concerned to receive the final credits. | 6 hours |

Dr. Babasaheb Ambedkar Technological University, Lonere.

B.Tech (Electrical Engineering / Electrical Engineering (Electronics and Power)/ Electrical & Electronics Engg / Electrical & Power Engineering)

Curriculum for Semester V

| Course Category | Course Code | Course Title | Teaching Scheme | | | Evaluation Scheme | | | | Credit |
|-----------------|-------------|--|-----------------|----------|-----------|-------------------|------------|------------|------------|-----------|
| | | | L | T | P | CA | MS E | ESE | Total | |
| PCC4 | BTEEC501 | Power System Analysis | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC5 | BTEEC502 | Microprocessor and Microcontroller | 3 | - | - | 20 | 20 | 60 | 100 | 3 |
| PCC6 | BTEEC503 | Power Electronics | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC2 | BTEEPLE504 | Group B | 3 | - | - | 20 | 20 | 60 | 100 | 3 |
| OEC1 | BTEEOE505 | Group C | 3 | - | - | 20 | 20 | 60 | 100 | 3 |
| HSSMC | BTHM506 | Foreign Language # | - | - | - | - | - | - | - | Audit |
| LC | BTEEL507 | Power System Analysis Lab | - | - | 2 | 60 | - | 40 | 100 | 1 |
| LC | BTEEL508 | Microprocessor and Microcontroller Lab | - | - | 2 | 60 | - | 40 | 100 | 1 |
| LC | BTEEL509 | Power Electronics Lab | - | - | 2 | 60 | - | 40 | 100 | 1 |
| Project | BTEEPE510 | Mini project-II | - | - | 2 | 60 | - | 40 | 100 | 1 |
| Internship | BTEEP410 | Internship-II Evaluation | - | - | - | - | - | 50 | 50 | 1 |
| Total | | | 15 | 2 | 10 | 340 | 100 | 510 | 950 | 22 |

BTEEPE510 MINI PROJECT II

01 Credits

Guidelines:

| Stage | Work to be carried |
|-----------|--|
| I | <ul style="list-style-type: none"> • Selection of a project (Hardware or Software Based) on recent trends in Electrical Engineering. • Planning the outcome of the project and listing out the expected outcome of the project. • Literature Survey |
| II | <ul style="list-style-type: none"> • Development of Project Idea in the form of working model (Hardware based projects) or production of appropriate simulation results of the proposed idea (Software based projects). |

| | |
|------------|--|
| III | <ul style="list-style-type: none">• Verification of the results obtained of the working model or the simulation results.• Comparing if the outcomes as defined in Phase I are met and taking corrective action. |
| IV | <ul style="list-style-type: none">• Completion of project by developing the Project Report and submitting the report to the concerned to receive the final credits. |

Semester VI

| | | | | | | | | | | |
|--------------|-----------|---|-----------|----------|-----------|------------|------------|------------|------------|-------------------------------------|
| PCC7 | BTEEC601 | Switchgear and Protection | 3 | - | - | 20 | 20 | 60 | 100 | 3 |
| PCC8 | BTEEC602 | Electrical Machine Design | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC9 | BTEEC603 | Control System Engineering | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PEC3 | BTEEP604 | Group D | 3 | - | - | 20 | 20 | 60 | 100 | 3 |
| OEC2 | BTEEOE605 | Group E | 3 | - | - | 20 | 20 | 60 | 100 | 3 |
| LC | BTEEL606 | Switchgear and Protection Lab | - | - | 2 | 60 | | 40 | 100 | 1 |
| LC | BTEEL607 | Electrical Machine Design Lab | - | - | 2 | 60 | | 40 | 100 | 1 |
| LC | BTEEL608 | Control System Engineering Lab | - | - | 2 | 60 | | 40 | 100 | 1 |
| Seminar | BTEEM609 | Seminar | - | - | 4 | 60 | | 40 | 100 | 2 |
| Internship | BTEEP610 | Internship-III (minimum of 4 weeks which can be completed partially in third or fourth semester or in at one time) | - | - | - | - | - | - | - | Credits to be evaluated in VII sem. |
| Total | | | 15 | 2 | 10 | 340 | 100 | 460 | 900 | 22 |

BSC= Basic Science Course, ESC= Engineering Science Course, PCC= Professional Core Course, PEC= Professional Elective Course, OEC= Open Elective Course, LC= Laboratory Course, HSSMC= Humanities and Social Science including Management Course

Online NPTEL Course

Dr. Babasaheb Ambedkar Technological University, Lonere.

**B.Tech (Electrical Engineering / Electrical Engineering (Electronics and Power)/
Electrical & Electronics Engg / Electrical & Power Engineering)**

Curriculum for Semester VII [Final Year]

| Sr. No. | Course Code | Type of Course | Course Title | Hours per week | | | Evaluation Scheme | | | Total Marks | Credits |
|--------------|-------------|----------------|--|----------------|----------|-----------|-------------------|------------|------------|-------------|-----------|
| | | | | L | T | P | MSE | CA | ESE | | |
| 1 | BTEEC701 | PCC1 | Power System Operation & Control | 3 | 0 | 0 | 20 | 20 | 60 | 100 | 3 |
| 2 | BTEEC702 | PCC2 | High Voltage Engineering | 3 | 0 | 0 | 20 | 20 | 60 | 100 | 3 |
| 3 | BTEEC703 | PCC3 | Electrical Drives | 3 | 0 | 0 | 20 | 20 | 60 | 100 | 3 |
| 4 | BTEEE704 | PEC1 | Elective-IX | 3 | 0 | 0 | 20 | 20 | 60 | 100 | 3 |
| 5 | BTEEE705 | PEC2 | Elective-X | 3 | 0 | 0 | 20 | 20 | 60 | 100 | 3 |
| 6 | BTEEL706 | Lab | Power System Operation & Control Lab | 0 | 0 | 2 | -- | 30 | 20 | 50 | 1 |
| 7 | BTEEL707 | Lab | High Voltage Engineering Lab | 0 | 0 | 2 | -- | 30 | 20 | 50 | 1 |
| 8 | BTEEL708 | Lab | Electrical Drives Lab | 0 | 0 | 2 | -- | 30 | 20 | 50 | 1 |
| 9 | BTEES709 | Seminar | Seminar | 0 | 0 | 2 | -- | 30 | 20 | 50 | 1 |
| 10 | BTEEP710 | Project | Project Part-I | 0 | 0 | 6 | -- | 30 | 20 | 50 | 3 |
| 11 | BTEEF711 | -- | Field Training /Internship/Industrial Training III | -- | -- | -- | -- | -- | 50 | 50 | 1 |
| Total | | | | 15 | 0 | 14 | 100 | 250 | 450 | 800 | 23 |

| | |
|---|----------------------------------|
| Elective-IX | Elective-X |
| A) Special Purpose Electrical Machines | A) Digital Signal Processing |
| B) Electrical Traction and Utilization | B) Energy Audit and Conservation |
| C) Engineering System Design and Optimization | C) Electrical Power Quality |
| D) Financial Management | D) HVDC Transmission and FACTS |

| BTEEP710: PROJECT PART-I | |
|---------------------------------|---------------------------------|
| Teaching Scheme: | Examination Scheme: |
| Practical: 6hr | Continuous Assessment: 30 Marks |
| Total Credits: 3 | End Term Exam: 20 Marks |

Term work shall consist of detailed report for chosen topic and output of final working proposed. Report shall summarize the literature survey, spell out the scope of work, methodology and results. Viva-voce Examination shall be based on work carried out by the student. In case of students opting for Internship in the eighth semester, the Project may be industry-based.

| BTEEF711: FIELD TRAINING/INTERNSHIP/INDUSTRIAL TRAINING III | |
|--|---------------------------|
| Teaching Scheme: | Examination Scheme: |
| Practical: -- | Continuous Assessment: -- |
| Total Credits: 1 | End Term Exam: 50 Marks |

Students are expected to undergo industrial training for at least four weeks at factory / design offices or in combination of these after VI semester. Training session shall be guided and certified by qualified engineer / industry expert. A neat detailed report on activities carried out during training is expected. Students should undergo training in Summer Vacation after Semester VI and appear at examination in Semester VII. A brief report of industrial training shall be submitted. Evaluation shall be based on report and power point presentation.

Dr. Babasaheb Ambedkar Technological University, Lonere.

**B.Tech (Electrical Engineering / Electrical Engineering (Electronics and Power)/
Electrical & Electronics Engg / Electrical & Power Engineering)**

Curriculum for Semester VIII [Final Year]

| Sr. No. | Course Code | Course Title | Hours per week | | | Evaluation Scheme | | | Total Marks | Credits |
|---------|-------------|--|----------------|----------|-----------|-------------------|------------|------------|-------------|-----------|
| | | | L | T | P | MSE | CA | ESE | | |
| | | 1. Power Management Integrated Circuits 2. DC Power Transmission Systems 3. High Power Multilevel Converters 4. Fuzzy Sets, Logic and Systems & Applications 5. The Joy of Computing using Python 6. Introduction to Industry 4.0 and Industrial Internet of Things 7. Entrepreneurship Essentials # Student to opt any two subjects from above list | 3 | 0 | 0 | 20* | 20* | 60* | 100 | 3 |
| | | | 3 | 0 | 0 | 20* | 20* | 60* | 100 | 3 |
| 6 | BTEEP803 | Project - II | 0 | 0 | 30 | -- | 100 | 150 | 250 | 15 |
| | | Total | 6 | 0 | 30 | 40 | 240 | 270 | 450 | 21 |

* Six months of Internship in the industry

*Students doing project at institute will have to appear for CA/MSE/ESE

* Student doing project at Industry will give NPTEL examination / Examination conducted by university i.e. CA/MSE/ESE

These subjects are to be studied on self –study mode using SWAYAM/NPTEL/Any other source

Teacher who work as a facilitator for the course should be allotted 3 hrs/week load.

Project Load: 2hrs/week/project.

Mapping of Courses with MOOCs Platform SWYAM / NPTEL

| S.N. | Course Name | Duration | Name of Professor | Institute offering Course |
|------|--|----------|---|---------------------------|
| 1 | Power Management Integrated Circuits | 12 Weeks | Prof. Qadeer Ahmad Khan | IITM |
| 2 | DC Power Transmission Systems | 12 Weeks | Prof. Krishna S | IITM |
| 3 | High Power Multilevel Converters | 12 Weeks | Prof. Anandarup Das | IITD |
| 4 | Fuzzy Sets, Logic and Systems & Applications | 12 Weeks | Prof. Nishchal Kumar Verma | IITK |
| 5 | The Joy of Computing using Python | 12 Weeks | Prof. Sudarshan Iyengar Prof. Yayati Gupta | IIT Ropar |
| 6 | Introduction to Industry 4.0 and Industrial Internet of Things | 12 Weeks | Prof. Sudip Misra | IIT KGP |
| 7 | Entrepreneurship Essentials | 12 Weeks | Prof. Manoj Kumar Mondal | IIT KGP |

| BTEEP803: PROJECT-II | |
|-----------------------------|----------------------------------|
| Teaching Scheme: | Examination Scheme: |
| Practical: 30hr | Continuous Assessment: 100 Marks |
| Total Credits: 15 | End Term Exam: 150 Marks |

Since Project Stage II is in continuation to Project Stage I, the students are expected to complete the total project by the end of semester VIII. After completion of project work, they are expected to submit the consolidated report including the work done in stage I and stage II.

The report shall be comprehensive and presented typed on A4 size sheets and bound. The number of copies to be submitted is number of students plus two. The assessment would be carried out by the panel of examiners for both, term work and oral examinations.



Holy-wood Academy, Kolhapur's
SANJEEVAN ENGINEERING AND TECHNOLOGY INSTITUTE

Sanjeevan Knowledge City, Somwar Path-Injole, Panhala, Tal. Panhala, Dist. Kolhapur

Pin- 416 201 (Maharashtra) Phone : 0231 - 2686600, 21 Fax : 0231 - 2686629

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Website : www.seti.edu.in Email : principal@seti.edu.in / office@seti.edu.in

EN 6315

DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 27th June, 2022.

NOTICE

All the students of Electrical Engineering Department are to be informed that Continuous Assessment - 2 (CA2) Examination is scheduled on 29th June, 2022 to 01st July, 2022 for academic year 2021 - 2022. So examination timetable will be circulated shortly within a few days.

- Note: 1. Examination will be conducted through offline mode.
2. Student has to pay 100% of their total fee before CA2.

Departmental Exam Incharge
Mr. V. T. Metkari

H.O.D.

Mr. P. P. Kulkarni
Head Electrical Engineering Dept.
SANJEEVAN ENGINEERING AND
TECHNOLOGY INSTITUTE, PANTHALA
Somwar Path, Tal. Panhala, Dist. Kolhapur-416 201
MAHARASHTRA, INDIA



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EN 6315

DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 03rd June, 2022.

NOTICE

All the students of **Second Year (S.Y.)** are to be informed that Mid Semester Examination (**MSE**) is scheduled on **08th June, 2022 to 10th June, 2022** for academic year 2021 – 2022. So examination timetable will be circulated shortly within a few days.

- Note: 1. Examination will be conducted through offline mode.
2. Second year Student has to pay 75% of their total fee before MSE.
3. First three lecture conducted as per time table.

Departmental Exam Incharge
Mr. V. T. Metkari

H.O.D.
Mr. P. P. Kulkarni

Head Electrical Engineering Dept.
SANJEEVAN ENGINEERING AND
TECHNOLOGY INSTITUTE, PANTHALA
Somwar Peth, Tal. Panhala, Dist. Kolhapur-416 201
MAHARASHTRA, INDIA



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DEPARTMENT OF ELECTRICAL ENGINEERING

Date: 09th May, 2022.

NOTICE

All the students of **Third Year (T.Y.)** and **Final Year (B. Tech.)** are to be informed that Mid Semester Examination (**MSE**) is scheduled on **12th May, 2022 to 14th May, 2022** for academic year 2021 - 2022. So examination timetable will be circulated shortly within a few days.

Note: 1. Examination will be conducted through offline mode.

2. Third year Student has to pay 75% of their total fee before MSE.

3. Final year students have to pay 100% of their total fee before MSE.

Departmental Exam Incharge
Mr. V. T. Metkari

H.O.D.
Mr. P. P. Kulkarni

(Head Electrical Engineering Dept.)
**SANJEEVAN ENGINEERING AND
TECHNOLOGY INSTITUTE, PANTHALA**
Somwar Peth, Tal. Panhala, Dist. Kolhapur-416 201
MAHARASHTRA INDIA

AY: 20
5.Y.
B.Tech.
odd

Course Structure for Semester III
B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich)
 (w.e.f. 2021-22)

| Semester III | | | | | | | | | | |
|-----------------|-------------|----------------------------------|-----------------|----------|----------|-------------------|-----------|------------|------------|----------------|
| Course Category | Course Code | Course Title | Teaching Scheme | | | Evaluation Scheme | | | | No. of Credits |
| | | | L | T | P | CA | MSE | ESE | Total | |
| BSC7 | BTBS301 | Engineering Mathematics – III | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC1 | BTMC302 | Fluid Mechanics | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC2 | BTMC303 | Thermodynamics | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| ESC10 | BTMES304 | Materials Science and Metallurgy | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC3 | BTMCL305 | Machine Drawing and CAD Lab | - | - | 4 | 60 | - | 40 | 100 | 2 |
| PCC4 | BTMCL306 | Mechanical Engineering Lab – I | - | - | 4 | 60 | - | 40 | 100 | 2 |
| PROJ-1 | BTES209P | IT – 1 Evaluation | - | - | - | - | - | 100 | 100 | 1 |
| | BTHM308 | Constitution of India | | | | | | | | Audit |
| Total | | | 12 | 4 | 8 | 200 | 80 | 420 | 700 | 21 |

BSC=Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course
 PEC=Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course
 HSSMC = Humanities and Social Science including Management Courses

Course Structure for Semester IV
B. Tech in Mechanical Engineering / B. Tech. in Mechanical Engineering (Sandwich)
 (w.e.f. 2021-22)

| Semester IV | | | | | | | | | | |
|-----------------|-------------|--|-----------------|----------|----------|-------------------|------------|------------|------------|----------------------------------|
| Course Category | Course Code | Course Title | Teaching Scheme | | | Evaluation Scheme | | | | No. of Credits |
| | | | L | T | P | CA | MSE | ESE | Total | |
| PCC5 | BTMC401 | Manufacturing Processes – I | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC6 | BTMC402 | Theory of Machines-I | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| HSSMC3 | BTHM403 | Basic Human Rights | 3 | - | - | 20 | 20 | 60 | 100 | 3 |
| ESC11 | BTMES404 | Strength of Materials | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PEC 1 | BTMPE405A-C | Elective-I | 3 | 1 | - | 20 | 20 | 60 | 100 | 4 |
| PCC7 | BTMCL406 | Mechanical Engineering Lab-II | - | - | 4 | 60 | - | 40 | 100 | 2 |
| PROJ-2 | BTMI407 | Field Training /Industrial Training (minimum of 4 weeks which can be completed partially in the third and fourth semester or in one semester itself) | - | - | - | - | - | - | - | Credits to be evaluated in Sem V |
| Total | | | 15 | 4 | 4 | 160 | 100 | 340 | 600 | 21 |

BSC = Basic Science Course, ESC = Engineering Science Course, PCC = Professional Core Course
 PEC = Professional Elective Course, OEC = Open Elective Course, LC = Laboratory Course

DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

HSSMC = Humanities and Social Science including Management Courses

Elective I

| Sr. No | Course code | Course Name |
|--------|-------------|----------------------------------|
| 1 | BTMPE405A | Numerical Methods in Engineering |
| 2 | BTMPE405B | Sheet Metal Engineering |
| 3 | BTMPE405C | Fluid Machinery |

B. Tech. Mechanical Engineering
Course Structure for Semester V [Third Year] w.e.f. 2019-2020

| Course Code | Type of Course | Course Title | Weekly Teaching Scheme | | | Evaluation Scheme | | | | Credits |
|--------------|----------------|---|------------------------|----------|-----------|-------------------|------------|------------|------------|----------------|
| | | | L | T | P | CA | MSE | ESE | Total | |
| BTMEC501 | PCC 12 | Heat Transfer | 3 | 1 | -- | 20 | 20 | 60 | 100 | 4 |
| BTMEC502 | PCC 13 | Applied Thermodynamics – I | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC503 | PCC 14 | Machine Design – I | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC504 | PCC 15 | Theory of Machines- II | 3 | 1 | -- | 20 | 20 | 60 | 100 | 4 |
| BTMEC505 | PCC 16 | Metrology and Quality Control | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTID506 | PCC 17 | Product Design Engineering - II | 1 | -- | 2 | 60 | -- | 40 | 100 | 2 |
| BTMEC506A | OEC 2 | Automobile Engineering | 3 | -- | -- | -- | -- | -- | -- | Audit (AU/ NP) |
| BTMEC506B | | Nanotechnology | | | | | | | | |
| BTMEC506C | | Energy Conservation and Management | | | | | | | | |
| BTMEL507 | PCC 18 | Heat Transfer Lab | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEL508 | PCC 19 | Applied Thermodynamics Lab | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEL509 | PCC 20 | Machine Design Practice- I | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEL510 | PCC 21 | Theory of Machines Lab- II | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEF511 | Project 2 | Field Training /Internship/Industrial Training II | -- | -- | -- | -- | -- | 50 | 50 | 1 |
| Total | | | 16 | 5 | 10 | 280 | 100 | 470 | 850 | 24 |

B. Tech. Mechanical Engineering
Course Structure for Semester VI [Third Year] w.e.f. 2019-2020

| Course Code | Type of Course | Course Title | Weekly Teaching Scheme | | | Evaluation Scheme | | | | Credits |
|-------------|----------------|---|------------------------|----|----|-------------------|-----|-----|-------|----------------|
| | | | L | T | P | CA | MSE | ESE | Total | |
| BTMEC601 | PCC 22 | Manufacturing Processes- II | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC602 | PCC 23 | Machine Design-II | 3 | 1 | -- | 20 | 20 | 60 | 100 | 4 |
| BTMEC603 | PCC 24 | Applied Thermodynamics- II | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC604A | PEC 1 | Engineering Tribology | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC604B | | IC Engines | | | | | | | | |
| BTMEC604C | | Additive Manufacturing | | | | | | | | |
| BTMEC604D | | Mechanical Measurements | | | | | | | | |
| BTMEC605A | OEC 3 | Quantitative Techniques in Project Management | 3 | -- | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC605B | | Sustainable Development | | | | | | | | |
| BTMEC605C | | Renewable Energy Sources | | | | | | | | |
| BTMEC606A | OEC 4 | Biology for Engineers | 3 | -- | -- | -- | -- | -- | -- | Audit (AU/ NP) |
| BTMEC606B | | Solar Energy | | | | | | | | |
| BTMEC606C | | Human Resource Management | | | | | | | | |
| BTMEL607 | PCC 25 | Metrology and Quality Control Lab | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEL608 | PCC 26 | Machine Design Practice-II | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEL609 | PCC 27 | IC Engine Lab | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEL610 | PCC 28 | Refrigeration and Air Conditioning Lab | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEM611 | Project 3 | Technical Project for Community Services | -- | -- | 4 | 30 | -- | 20 | 50 | 2 |
| Total | | | 15 | 4 | 12 | 250 | 100 | 400 | 750 | 22 |

B. Tech. Mechanical Engineering
Course Structure for Semester VII [Fourth Year] w.e.f. 2020-2021

| Course Code | Type of Course | Course Title | Weekly Teaching Scheme | | | Evaluation Scheme | | | | Credits |
|-------------|----------------|---|------------------------|----|----|-------------------|-----|-----|-------|----------------|
| | | | L | T | P | CA | MSE | ESE | Total | |
| BTMEC701 | PCC 29 | Mechatronics | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC702 | PCC 30 | CAD/CAM | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC703 | PCC 31 | Manufacturing Processes - III | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC704A | PEC 2 | Fluid Machinery | 2 | 1 | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEC704B | | Industrial Engineering and Management | | | | | | | | |
| BTMEC704C | | Finite Element Method | | | | | | | | |
| BTMEC704D | | Surface Engineering | | | | | | | | |
| BTMEC704E | | Refrigeration and Air Conditioning | | | | | | | | |
| BTAMC704C | | Automobile Design (Product Design, PLM, CAE, Catia) | | | | | | | | |
| BTMEC705A | OEC 5 | Engineering Economics | 3 | -- | -- | -- | -- | -- | -- | Audit (AU/ NP) |
| BTMEC705B | | Intellectual Property Rights | | | | | | | | |
| BTMEC705C | | Wind Energy | | | | | | | | |
| BTMEC705D | | Knowledge Management | | | | | | | | |
| BTMEL706 | PCC 32 | Manufacturing Processes Lab - II | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEL707 | PCC 33 | Mechatronics Lab | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEL708 | PCC 34 | CAD/CAM Lab | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMES709 | Project 4 | Seminar | -- | -- | 2 | 30 | -- | 20 | 50 | 1 |
| BTMEF710 | Project 5 | Field Training /Internship/Industrial Training III | -- | -- | -- | -- | -- | 50 | 50 | 1 |
| BTMEP711 | Project 6 | Project Stage-I** | -- | -- | 6 | 30 | -- | 20 | 50 | 3 |
| Total | | | 11 | 4 | 14 | 230 | 80 | 390 | 700 | 20 |

****In case of students opting for Internship in the eighth semester, the Project must be industry-based.**

B. Tech. Mechanical Engineering
Course Structure for Semester VIII [Fourth Year] w.e.f. 2020-2021

| Course Code | Type of Course | Course Title | Weekly Teaching Scheme | | | Evaluation Scheme | | | | Credits |
|--|----------------|---|------------------------|----|----|-------------------|-----|-----|-------|---------|
| | | | L | T | P | CA | MSE | ESE | Total | |
| Choose any two subjects from ANNEXURE-A# | | | - | - | -- | 20 | 20 | 60 | 100 | 3 |
| | | | - | - | -- | 20 | 20 | 60 | 100 | 3 |
| BTMEP803 | Project 7 | Project Stage-II or Internship and Project* | -- | -- | 30 | 50 | -- | 100 | 150 | 15 |
| Total | | | -- | -- | 30 | 90 | 40 | 220 | 350 | 21 |

* Six months of Internship in the industry

These subjects are to be studied on self-study mode using SWAYAM/NPTEL/Any other source

Student doing project in Industry will give NPTEL Examination/Examination conducted by the University i.e. CA/MSE/ESE

Students doing project in the Institute will have to appear for CA/MSE/ESE

ANNEXURE-A#
Recommendations of 8th Semester Courses in Self-study Mode from NPTEL/ SWYAM Platform

| Sr No | Course Code | Course Name | Duration (Weeks) | Institute Offering Course | Name of Professor |
|-------|-------------|---|------------------|---------------------------|-----------------------------|
| 1 | BTMEC801A | Fundamentals of Automotive Systems | 12 Weeks | IITM | Prof. C. S. Shankar Ram |
| 2 | BTMEC801B | Mechanics of Fiber Reinforced Polymer Composite Structures | 12 Weeks | IITG | Prof. Debabrata Chakraborty |
| 3 | BTMEC801C | Explosions and Safety | 12 Weeks | IITM | Prof. K. Ramamurthi |
| 4 | BTMEC801D | Material Characterization | 12 Weeks | IITM | Prof. Sankaran.S |
| 5 | BTMEC801E | Dealing with materials data : collection, analysis and Interpretation | 12 Weeks | IISc | Prof. M P Gururajan |

| | | | | | |
|---|-----------|-----------------------------------|----------|------|------------------------|
| 6 | BTMEC801F | Non-Conventional Energy Resources | 12 Weeks | IITM | Prof. Prathap Haridoss |
|---|-----------|-----------------------------------|----------|------|------------------------|

Semester - VII

Mechatronics

| | | | | |
|----------|--------|--------------|-------|-----------|
| BTMEC701 | PCC 29 | Mechatronics | 2-1-0 | 3 Credits |
|----------|--------|--------------|-------|-----------|

| | |
|--|---|
| Teaching Scheme: | Examination Scheme: |
| Lecture: 2 hrs/week Tutorial: 1 hr/week | Continuous Assessment: 20 Marks Mid Semester Exam: 20 Marks End Semester Exam: 60 Marks (Duration 03 hrs) |

Pre-Requisites: None

Course Outcomes: At the end of the course, students will be able to:

| | |
|-----|--|
| CO1 | Define sensor, transducer and understand the applications of different sensors and transducers |
| CO2 | Explain the signal conditioning and data representation techniques |
| CO3 | Design pneumatic and hydraulic circuits for a given application |
| CO4 | Write a PLC program using Ladder logic for a given application |
| CO5 | Understand applications of microprocessor and micro controller |
| CO6 | Analyse PI, PD and PID controllers for a given application |

Mapping of course outcomes with program outcomes

| Course Outcomes | Program Outcomes | | | | | | | | | | | |
|-----------------|------------------|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
| CO1 | 1 | 1 | 1 | 3 | 2 | | | | 2 | 1 | | 1 |
| CO2 | 3 | 2 | | | 3 | 3 | 2 | | | | 1 | 3 |
| CO3 | 1 | 1 | | 3 | 3 | 2 | 1 | | 3 | | 1 | 3 |
| CO4 | 3 | 3 | 1 | 1 | 3 | | 1 | 1 | 1 | | | |
| CO5 | 3 | | | 1 | 3 | 2 | 3 | | | | | 2 |
| CO6 | | 3 | 3 | | 3 | 3 | 1 | 1 | 3 | | | 2 |

Course Contents:

Unit 1: Introduction

Introduction to Mechatronic systems, elements, advantages; practical examples of Mechatronic systems.

Sensors and Transducers: Various types of sensors and transducers used in Mechatronic system such as pressure sensors, temperature sensors, velocity sensors, Acceleration sensors, proximity sensors, position sensors, force sensors, Optical encoders, Capacitive level sensor, tactile sensors, Selection of sensors.

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