



JAIDEV EDUCATION SOCIETY'S
JD COLLEGE OF ENGINEERING AND MANAGEMENT
KATOL ROAD, NAGPUR

Website: www.jdcoem.ac.in E-mail: info@jdcoem.ac.in
Department of Civil Engineering
"Building Better Development"
Session 2018-19




1.1.1

| B.Tech. Electrical Engineering | | |
|--------------------------------|---|--------------------------------|
| Program Specific Outcomes | | |
| PSO | Statement | Relevance to Development Need |
| PSO1 | Represent and relate the basic engineering knowledge with proficiency in competent problem-solving ability through analysis, investigation and design of diverse area of civil engineering. | Local, Regional, National |
| PSO2 | Inculcate the professionalism in communication with application of modern civil engineering tools along with ethical and societal responsibilities to have a successful career. | Local, Regional, National |
| PSO3 | Assemble the concept of civil engineering for higher education, research or entrepreneurship and also evaluates the information for maintaining the specifications in quality work. | Local,Regional.National,Global |

| Course Category | Sample Relevant Courses |
|---------------------------------|---|
| Relevance to the Local Needs | Basic Human Rights, Building Construction, Construction Management & Law |
| Relevance to the Regional Needs | Field Training, Field Visit, Site Visit & Mini Project, |
| Relevance to the National Needs | Building Design & Drawing, Estimating & Costing, Construction Economics and Finance |
| Relevance to the Global Needs | Mathematics-III, Mechanics of Solids, Soft Skill Development, |


Principal
JD College of Engineering & Management
Khandale, Katol Road
Nagpur-441501





HoD/B.O.S. Chairman
H.O.D.
Department of Civil Engineering
J.D.C.O.E.M., Nagpur

Semester- III

| Sr. No. | Subject Code | Subject | Contact Hours | | | Credi |
|--|--------------|---|---------------|----------|-----------|-----------|
| | | | L | T | P | |
| Theory | | | | | | |
| 01 | BTBSC301 | Mathematics – III | 3 | 1 | - | 4 |
| 02 | BTCVC302 | Mechanics of Solids | 3 | 1 | ✓ | 4 |
| 03 | BTCVC303 | Hydraulics I | 2 | 1 | ✓ | 3 |
| 04 | BTCVC304 | Surveying I | 2 | 1 | ✓ | 3 |
| 05 | BTCVC305 | Building Construction | 2 | - | ✓ | 2 |
| 06 | BTCVC306 | Engineering Geology | 2 | - | ✓ | 2 |
| 07 | BTHM303 | Soft Skills Development | 2 | - | - | AU |
| Practical / Drawing and/or Design | | | | | | |
| 08 | BTCVL307 | Hydraulics Laboratory I | - | - | 2 | 1 |
| 09 | BTCVL308 | Surveying Laboratory I | - | - | 2 | 1 |
| 10 | BTCVL309 | Building Construction - Drawings Laboratory | - | - | 2 | 1 |
| 11 | BTCVL310 | Engineering Geology Lab | - | - | 2 | 1 |
| 12 | BTCVS311 | Seminar on Topic of Field Visit to Foundation Work | - | - | 1 | AU |
| 13 | BTCVF312 | Field Training / Internship/Industrial Training Evaluation (from semester II) | - | - | - | 1 |
| Sub-Total | | | 16 | 4 | 09 | |
| Total | | | 29 | | | 23 |





Principal
 J D College of Engineering & Management
 Khandala, Katol Road
 Nagpur-441501

Semester- IV

| Sr. No. | Subject Code | Subject | Contact Hours | | | Credit |
|--|-------------------------------------|---|---------------|----------|-----------|-----------|
| | | | L | T | P | |
| Theory | | | | | | |
| 01 | BTCVC401 | Hydraulics II | 2 | 1 | ✓ | 3 |
| 02 | BTCVC402 | Surveying – II | 2 | 1 | ✓ | 3 |
| 03 | BTCVC403 | Structural Mechanics-I | 3 | 1 | - | 4 |
| 04 | BTID405 | Product Design Engineering | 1 | 2 | - | 3 |
| 05 | CV E1 | Elective I | 3 | - | - | 3 |
| 06 | BTCVC406 | Engineering Management | 1 | - | - | AU |
| 07 | BTHM3401 | Basic Human Rights | 2 | - | - | AU |
| Practical / Drawing and/or Design | | | | | | |
| 08 | BTCVL407 | Hydraulics Laboratory II | - | - | 2 | 1 |
| 09 | BTCVL408 | Surveying Laboratory II | - | - | 4 | 2 |
| 10 | BTCVL409 | Mechanics of Solids Laboratory | - | - | 2 | 1 |
| 11 | BTCVM410 | Mini Project | - | - | 2 | 1 |
| 12 | BTCVF411 | Seminar on Topic of Field Visit to works involving Superstructure Construction | - | - | 1 | 1 |
| Sub-Total | | | 14 | 5 | 11 | |
| Total | | | 31 | | | 22 |
| Elective I | | | | | | |
| | BTCVE404A BTCVE404B BTCVE404C | Numerical Methods in Engineering Planning for Sustainable Development Instrumentation & Sensor Technologies for Civil Engineering Applications | 3 | - | - | 3 |




Principal
J D College of Engineering & Management
 Khandala, Katol Road
 Nagpur-441501

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology

CIVIL ENGINEERING

Scheme of Examination & Evaluation

Semester: Fifth

| Subject Code | Course | Teaching Scheme (Clock Hours/ Week) | | | | | Evaluation Scheme | | | | | | | | Duration of University Theory Exam (Hrs) |
|--------------|---|-------------------------------------|-------------------|--------------------|----------------|-----------|--------------------------------|-----------------|-------------|------------|------------------------------------|------------|-------------|------------|--|
| | | Theory hrs/week | Tutorial hrs/week | Practical hrs/week | Total hrs/week | Credits | Assessment of Marks for Theory | | | | Assessment of Marks for Practicals | | | | |
| | | | | | | | College Assessment (CA) | University Exam | Total Marks | Min. Marks | Internal | External | Total Marks | Min. Marks | |
| BECVE501T | Structural Analysis -II | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE501P | Structural Analysis -II | | | 2 | 2 | 1 | | | | | | 25 | 25 | 50 | 25 |
| BECVE502T | Reinforced Cement Concrete (RCC) Structures | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 4 |
| BECVE502P | Reinforced Cement Concrete (RCC) Structures | | | 2 | 2 | 1 | | | | | | 25 | 25 | 50 | 25 |
| BECVE503T | Fluid Mechanics -I | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE503P | Fluid Mechanics -I | | | 2 | 2 | 1 | | | | | | 25 | 25 | 50 | 25 |
| BECVE504T | Geotechnical Engineering -II | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE505T | Hydrology & Water Resources (HWR) | 4 | | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE506P | Communicative English & Technical Writing | | | 3 | 3 | 2 | | | | | | 25 | 25 | 50 | 25 |
| Total | | 16 | 4 | 9 | 29 | 25 | 100 | 400 | 500 | | | 100 | 100 | 200 | |

Note: 1. "Technical Writing" shall consist of detailed report on Summer Training- 1 (ST-1) underwent after 4th Semester.

2. Equal weightage shall be given to the components of "Communicative English" and "Technical Writing"



[Signature]
Principal
 J D College of Engineering & Management
 Khandala, Katol Road
 Nagpur-441301

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology

CIVIL ENGINEERING

Scheme of Examination & Evaluation

Semester: Sixth

| Subject Code | Course | Teaching Scheme (Clock Hours/ Week) | | | | | Evaluation Scheme | | | | | | | | Duration of University Theory Exam (Hrs) |
|--------------|------------------------------|--------------------------------------|-------------------|--------------------|----------------|-----------|--------------------------------|-----------------|-------------|------------|------------------------------------|------------|-------------|------------|--|
| | | Theory hrs/week | Tutorial hrs/week | Practical hrs/week | Total hrs/week | Credits | Assessment of Marks for Theory | | | | Assessment of Marks for Practicals | | | | |
| | | | | | | | College Assessment (CA) | University Exam | Total Marks | Min. Marks | Internal | External | Total Marks | Min. Marks | |
| BECVE601T | Steel Structures | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 4 |
| BECVE601P | Steel Structures | | | 2 | 2 | 1 | | | | | | 25 | 25 | 50 | 25 |
| BECVE602T | Surveying-II | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE602P | Surveying-II | | | 4 | 4 | 2 | | | | | | 25 | 25 | 50 | 25 |
| BECVE603T | Fluid Mechanics -II | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE603P | Fluid Mechanics -II | | | 2 | 2 | 1 | | | | | | 25 | 25 | 50 | 25 |
| BECVE604P | Building Design and Drawing | | | 4 | 4 | 4 | | | | | | 50 | 50 | 100 | 50 |
| BECVE605T | Environmental Engineering-II | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE606P | Site Visit & Mini Project | | | 3 | 3 | 3 | | | | | | 25 | 25 | 50 | |
| Total | | 12 | 4 | 15 | 31 | 27 | 80 | 320 | 400 | | | 150 | 150 | 300 | |

Summer Training - 2 (ST-2) of 2-4 Weeks duration during Summer Vacation is mandatory and will be evaluated in Seventh Semester.

Note:

1. External Practical Evaluation of Building Design and Drawing shall be performance based by solving assigned problem given jointly by the Internal & External Examiners on AutoCAD
2. "Site Visit" shall cover minimum Five Site Visits.
3. "Mini Project" shall include report on Site Visits and Assigned Mini Project/Software Training, etc.
4. Equal weightage shall be given for components of "Site Visits" and "Mini Project"



Principal
J D College of Engineering & Management
 Khandala, Katol Road
 Nagpur-441501

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
CIVIL ENGINEERING

Scheme of Examination & Evaluation

Absorption Scheme for Students of Semester Pattern to Credit Based Semester Pattern

| V Semester | | | |
|-------------|--|----------------------------|---|
| Code No. | Name of Subject in Semester Pattern | Code No. | Name of Equivalent Subject in Credit Based Semester Pattern |
| 5CE01 | Steel Structures (T) | BECVE601T | Steel Structures |
| 5CE01 | Steel Structures (P) | BECVE601P | Steel Structures |
| 5CE02 | Environmental Engineering - II | BECVE605 | Environmental Engineering - II |
| 5CE03 | Surveying - II (T) | BECVE602T | Surveying - II |
| 5CE03 | Surveying - II (P) | BECVE602P | Surveying - II |
| 5CE04 | Transportation Engineering - I (T) | BECVE403T | Transportation Engineering - I |
| 5CE04 | Transportation Engineering - I (P) | BECVE403P | Transportation Engineering - I |
| 5CE05 | Building Design and Drawing (T) | BECVE604P | Building Design and Drawing |
| 5CE05 | Building Design and Drawing (P) | BECVE604P | Building Design and Drawing |
| 5CE06 | Project Management | BECVE704 | Construction Management and Law |
| 5CE07 | Site Visit | BECVE606P | Site Visit and Mini Project |
| VI Semester | | | |
| Code No. | Name of Subject in Semester Pattern | Code No. | Name of Equivalent Subject in Credit Based Semester Pattern |
| 6CE01 | Structural Analysis - II (T) | BECVE501T | Structural Analysis - II |
| 6CE01 | Structural Analysis - II (P) | BECVE501P | Structural Analysis - II |
| 6CE02 | RCC Structures (T) | BECVE502T | Reinforced Cement Concrete (RCC) Structures |
| 6CE02 | RCC Structures (P) | BECVE502P | Reinforced Cement Concrete (RCC) Structures |
| 6CE03 | Geotechnical Engineering - II | BECVE504T | Geotechnical Engineering - II |
| 6CE04 | Fluid Mechanics - II (T) | BECVE603T | Fluid Mechanics - II |
| 6CE04 | Fluid Mechanics - (P) | BECVE603P | Fluid Mechanics - II |
| 6CE05 | Computer Applications in Civil Engineering | Semester - I, Serial No. 8 | Computational Skills |
| 6CE06 | Technical Writing | BECVE506 | Communicative English and Technical Writing |

Note: Any student willing to opt for CBS Semester pattern shall be absorbed as per the RTMNU's relevant ordinance.



Principal
J D College of Engineering & Management
 Khandala, Katol Road
 Nagpur-441501

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology

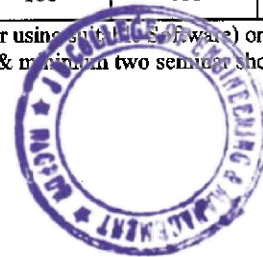
CIVIL ENGINEERING

Scheme of Examination & Evaluation - CBS

Semester: Seventh

| Subject Code | Course | Teaching Scheme (Clock Hours/ Week) | | | | | Evaluation Scheme | | | | | | | | Duration of University Theory Exam (Hrs) |
|--------------|---|-------------------------------------|-------------------|--------------------|----------------|-----------|--------------------------------|-----------------|-------------|------------|-----------------------------------|------------|-------------|------------|--|
| | | Theory hrs/week | Tutorial hrs/week | Practical hrs/week | Total hrs/week | Credits | Assessment of Marks for Theory | | | | Assessment of Marks for Practical | | | | |
| | | | | | | | College Assessment (CA) | University Exam | Total Marks | Min. Marks | Internal | External | Total Marks | Min. Marks | |
| BECVE701T | Advanced Concrete Structures | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 4 |
| BECVE701P | Advanced Concrete Structures | | | 2 | 2 | 1 | | | | | | 25 | 25 | 50 | 25 |
| BECVE702T | Estimating and Costing | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 4 |
| BECVE702P | Estimating and Costing | | | 2 | 2 | 1 | | | | | | 50 | 50 | 100 | 50 |
| BECVE703T | Elective -I | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE704T | Construction Management and Law | 4 | | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE705T | Transportation Engineering - II | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE706P | Industrial Case Study and Project Seminar | | | 3 | 3 | 3 | | | | | | 50 | 50 | 100 | 50 |
| Total | | 16 | 4 | 7 | 27 | 25 | 100 | 400 | 500 | | | 125 | 125 | 250 | |

- Note:** 1. External Practical Evaluation of "Estimating & Costing" shall be performance based (Manual or using software) on assigned problem by the External Examiner
 2. Evaluation of Summer Training - 2 (ST-2) shall be done as Industrial Case Study Component & minimum two seminar should be delivered as continuous college assessment for project seminar component.



Principal
 J D College of Engineering & Management
 Khandala, Katol Road
 Nagpur-441301

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur

Faculty of Engineering & Technology

CIVIL ENGINEERING

Scheme of Examination & Evaluation - CBS

Semester: Eighth

| Subject Code | Course | Teaching Scheme (Clock Hours/ Week) | | | | | Evaluation Scheme | | | | | | | | Duration of University Theory Exam (Hrs) |
|--------------|------------------------------------|--------------------------------------|-------------------|--------------------|----------------|-----------|--------------------------------|-----------------|-------------|------------|-----------------------------------|------------|-------------|------------|--|
| | | Theory hrs/week | Tutorial hrs/week | Practical hrs/week | Total hrs/week | Credits | Assessment of Marks for Theory | | | | Assessment of Marks for Practical | | | | |
| | | | | | | | College Assessment (CA) | University Exam | Total Marks | Min. Marks | Internal | External | Total Marks | Min. Marks | |
| BECVE801T | Irrigation Engineering | 3 | 2 | | 5 | 5 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE802T | Elective - II | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE803T | Elective - III | 4 | | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE803P | Elective - III | | | 2 | 2 | 1 | | | | | 25 | 25 | 50 | 25 | |
| BECVE804T | Construction Economics and Finance | 3 | 1 | | 4 | 4 | 20 | 80 | 100 | 40 | | | | | 3 |
| BECVE805P | Project | | | 6 | 6 | 6 | | | | | 75 | 75 | 150 | 75 | |
| Total | | 13 | 4 | 8 | 25 | 24 | 80 | 320 | 400 | | 100 | 100 | 200 | | |

Note: Internal Evaluation of Project shall be based on the academic contribution of a student and delivery of minimum one seminar on the project work.

BECVE804T - Construction Economics and Finance subject shall be dealt by Board of Basic Science



[Signature]
Principal
 J D College of Engineering & Management
 Khandala, Katol Road
 Nagpur-441501

Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur
Faculty of Engineering & Technology
CIVIL ENGINEERING

Absorption Scheme for Students of Semester Pattern to Credit Based Semester Pattern

| VII Semester | | | |
|---------------------|---|-----------|---|
| Code No. | Name of Subject in Semester Pattern | Code No. | Name of Equivalent Subject in Credit Based Semester Pattern |
| 7CE01 | Structural Analysis – III (T) | BECVE501T | Structural Analysis – II |
| 7CE02 | Advanced Concrete Structures (T) | BECVE701T | Advanced Concrete Structures |
| 7CE02 | Advanced Concrete Structures (P) | | BECVE701P Advanced Concrete Structures |
| 7CE03 | Irrigation Engineering (T) | BECVE801T | Irrigation Engineering |
| 7CE03 | Irrigation Engineering (P) | | BECVE801T Irrigation Engineering |
| 7CE04 | Maintenance and Rehabilitations of Civil Engineering Structures (T) | BECVE802T | Elective – II (Maintenance and Rehabilitations of Civil Engineering Structures) |
| 7CE05 | Elective – I (T) | BECVE703T | Elective – I |
| 7CE06 | Industrial Case Study (P) | | BECVE706P Industrial Case Study & Project Seminar |
| 7CE07 | Project and Seminar (P) | | BECVE706P Industrial Case Study & Project Seminar |

VIII Semester

| Code No. | Name of Subject in Semester Pattern | Code No. | Name of Equivalent Subject in Credit Based Semester Pattern |
|----------|-------------------------------------|-----------|---|
| 8CE01 | Estimating and Costing (T) | BECVE702T | Estimating and Costing |
| 8CE01 | Estimating and Costing (P) | | BECVE702P Estimating and Costing |
| 8CE02 | Transportation Engineering – II (T) | BECVE705T | Transportation Engineering – II |
| 8CE03 | Elective – II (T) | BECVE802T | Elective – II |
| 8CE04 | Elective – III (T) | BECVE803T | Elective – III |
| 8CE04 | Elective – III (P) | | BECVE803P Elective – III |
| 8CE05 | Project (P) | | BECVE805P Project |

Note: Any student willing to opt for Credit Based Semester Pattern shall be absorbed as per the RTMNU's relevant ordinance.



Principal
J D College of Engineering & Management
Khandala, Katol Road
Nagpur-441501



JAIDEV EDUCATION SOCIETY'S
J D COLLEGE OF ENGINEERING AND MANAGEMENT
KATOL ROAD, NAGPUR

Website: www.jdcoem.ac.in E-mail: info@jdcoem.ac.in
(An Autonomous Institute, with NAAC "A" Grade)
Affiliated to DBATU, RTMNU & MSBTE Mumbai



Department of CSE
"A Place to Learn ; A Chance to Grow"
Session 2018-19

PSO Relevance to Development Need (B.Tech)

| PSO | Statement | Relevance to Development Need |
|------|---|--------------------------------------|
| PSO1 | The ability to understand, analyse and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity | Local/ Regional/ National/ Global |
| PSO2 | The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success. | Local/ Regional/ National/ Global |
| PSO3 | The ability of employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learning & a zest for higher studies and also acts as good citizen by inculcating in them moral values & ethics. | Local/ Regional/ National/ Global |

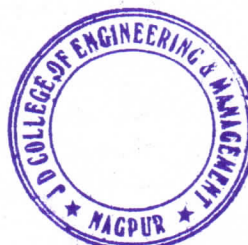
| Course Category | Sample Relevant Courses |
|---------------------------------|---|
| Relevance to the Local Needs | Numerical Computing, Object Oriented Methodologies, Design & Analysis of Algorithms, Language Processors |
| Relevance to the Regional Needs | Concepts in Programming Languages, System Programming, Software Technology Lab-I, Database Management Systems, Distributed & Object oriented DBMS |
| Relevance to the National Needs | Computer Networks, Microprocessors & Interfacing, Computer Systems Security |
| Relevance to the Global Needs | Data Communication, Operating Systems, Software Egg. & Project Management, Software Technology Lab-II, TCP/IP & Internet, Natural Language Processing, Data Warehousing & Mining, Mobile Computing Grid Computing, Soft Computing, Digital Image Processing, Topics in Distributed System ,Embedded system. |

HOD, CSE, JDCOEM

HOD

Computer Science & Engineering
JDCOEM, Nagpur

Principal
J D College of Engineering & Management
Khandala, Katol Road
Nagpur-441501





Gupta 10/8

Jaidev Education Society's
J D College of Engineering & Management, Katol Road, Nagpur
Department of Electrical Engineering
Session 2018-19


1.1.1

| B. Tech. Electrical Engineering | | |
|--|---|---|
| Program Specific Outcomes | | |
| PSO | Statement | Relevance to Development Need (Select Suitable) |
| PSO1 | Interpret, identify and analyze problems in electrical domain and demonstrate this knowledge to develop, control and assess electrical systems. | Local,Regional |
| PSO2 | Solve ethically and professionally various Electrical Engineering problems in societal and environmental context and communicate effectively. | Local,Regional.National |
| PSO3 | Apply modern software tools for design, simulation and analysis of electrical systems to engage in life-long learning and to successfully adapt in multidisciplinary environments | Local,Regional.National,Global |

| Course Category | Sample Relevant Courses |
|---------------------------------|---|
| Relevance to the Local Needs | Engineering Economics and industrial Management, Electrical Machine I, Basic human rights |
| Relevance to the Regional Needs | Engineering Economics and industrial Management, Electrical Machine I, Industrial visit and report writing, Electrical Power Systems-I, Power Station Practice. |
| Relevance to the National Needs | Engineering Economics and industrial Management, Electrical Machine I, Power station Practice, Industrial visit and report writing, Introduction to Non Conventional Energy Source. |
| Relevance to the Global Needs | Basic Human Rights, Electrical Machine I, Control System I, Electrical Power Systems-I |




Principal
J D College of Engineering & Management
Khandala, Katol Road
Nagpur-441301


HOD(EE)
HOD
Dept. of Electrical Engineering
J.D College of Engineering
& Management, Nagpur

101

Departement :Information Technology

Academic Year:-2018-19

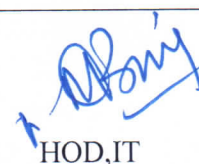
PSO Relevance to Development Need (B.Tech)

| PSO | Statement | Relevance to Development Need |
|------|---|--------------------------------------|
| PSO1 | The ability to understand, analyse and develop computer programs in the areas related to algorithms, system software, multimedia, web design, big data analytics, and networking for efficient design of computer-based systems of varying complexity | Local/ Regional/ National/ Global |
| PSO2 | The ability to apply standard practices and strategies in software project development using open-ended programming environments to deliver a quality product for business success. | Local/ Regional/ National/ Global |
| PSO3 | The ability of employ modern computer languages, environments, and platforms in creating innovative career paths to be an entrepreneur, lifelong learning & a zest for higher studies and also acts as good citizen by inculcating in them moral values & ethics. | Local/ Regional/ National/ Global |

| Course Category | Sample Relevant Courses |
|---------------------------------|---|
| Relevance to the Local Needs | Numerical Computing, Object Oriented Methodologies, Design & Analysis of Algorithms, Language Processors |
| Relevance to the Regional Needs | Concepts in Programming Languages, System Programming, Software Technology Lab-I, Database Management Systems, Distributed & Object oriented DBMS |
| Relevance to the National Needs | Computer Networks, Microprocessors & Interfacing, Computer Systems Security |
| Relevance to the Global Needs | Data Communication, Operating Systems, Software Egg. & Project Management, Software Technology Lab-II, TCP/IP & Internet, Natural Language Processing, Data Warehousing & Mining, Mobile Computing Grid Computing, Soft Computing, Digital Image Processing, Topics in Distributed System ,Embedded system. |



Principal
J D College of Engineering & Management
Khandala, Katol Road
Nagpur-441501



HOD,IT

JDCOEM
HOD
Information Technolog.
JDCOEM, Nagpu



JAIDEV EDUCATION SOCIETY'S
J D COLLEGE OF ENGINEERING AND MANAGEMENT
KATOL ROAD, NAGPUR

Website: www.jdcoem.ac.in E-mail: info@jdcoem.ac.in
(An Autonomous Institute, with NAAC "A" Grade)
Affiliated to DBATU, RTMNU & MSBTE Mumbai



Department of CSE
"A Place to Learn ; A Chance to Grow"
Session 2018-19

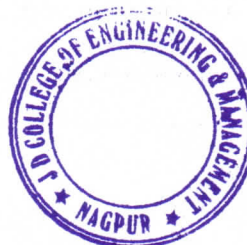
PSO Relevance to Development Need (M.Tech)

| PSO | Statement | Relevance to Development Need (Select Suitable) |
|------|--|---|
| PSO1 | Understand the basic engineering principles and achieve the hardware and software aspects of computer engineering. | Local/ Regional/ National/ Global |
| PSO2 | Analyse the real world applications using algorithmic models and acquire the knowledge of computer architecture. | Local/ Regional/ National/ Global |
| PSO3 | Ability to design and develop applications using various software tools. | Local/ Regional/ National/ Global |

| Course Category | Sample Relevant Courses |
|---------------------------------|--|
| Relevance to the Local Needs | Computer Algorithm, Communication Skills, Object Oriented Systems. |
| Relevance to the Regional Needs | Communication Skills, Intrusion Detection System, High Performance Computing, Reinforcement Learning, Software Testing. |
| Relevance to the National Needs | Game Theory, Social Network Analysis, Communication Skills, Advanced Computer Networks, Software Architecture, Functional Programming, Pattern Recognition. |
| Relevance to the Global Needs | Computer Algorithm, Advanced Operating System, Advanced computer Network, Mobile Communication and Computing, Game Theory, Social Network Analysis, Intrusion Detection System, Artificial Intelligent and knowledge Reasoning, High Performance Computing, Communication Skills, Software Architecture, Algorithm for Big Data, Real Time System, Cryptography and Network Security, Machine Learning. Communication Skill, Software Lab I, Data Science, Project Management and Intellectual Property Rights, Virtual Reality, Introduction to Cognitive Sciences. |

Principal
J D College of Engineering & Management
Khandala, Katol Road
Nagpur-441501

HOD, CSE, JD COEM
HOD
Computer Science & Engineering
JD COEM, Nagpur



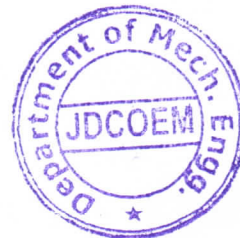


JAIDEV EDUCATION SOCIETY'S
J D COLLEGE OF ENGINEERING AND MANAGEMENT
KATOL ROAD, NAGPUR
DEPARTMENT OF MECHANICAL ENGINEERING
Session 2018-19

| B. Tech. Mechanical Engineering | | |
|--|---|---|
| Program Specific Outcomes | | |
| PSO | Statement | Relevance to Development Need (Select Suitable) |
| PSO1 | Graduates should excel in engineering positions in industry and other organizations that emphasize design and implementation of engineering systems and devices | Global |
| PSO2 | Alumni should establish a successful career in an engineering-related field and adapt to changing technologies. | National / Global |
| PSO3 | Graduates should be good citizens and cultured human beings, with full appreciation of the importance of professional, ethical and societal responsibilities. | Global |

| Course Category | Sample Relevant Courses |
|---------------------------------|---|
| Relevance to the Local Needs | Communication Skills, Introduction to Computer programming, Industrial visit, Innovation and Entrepreneurship Development, Campus Recruitment Training, Research Methodology, |
| Relevance to the Regional Needs | Basic Electrical and Electronics Engineering, Product Design and Development, Consumer Affair, Skill Development, Intellectual property rights |
| Relevance to the National Needs | Basic Civil and Mechanical Engineering, Universal Human Value, Numerical Method, Basic Electronic Engineering, |
| Relevance to the Global Needs | Engineering Mathematics- I, Engineering Chemistry, Engineering Graphics, Engineering Mathematics- II, Engineering Physics, Energy and Environment Engineering, Applied Maths-III, Material Science, Engineering Thermodynamics, Theory Of Machines-I, Manufacturing Engineering-I, Manufacturing Engineering-II, Strength Of Materials, Fluid Mechanics & Fluid Machines, Heat Transfer, Theory Of Machines-II, Measurement and Quality Control, Operation Research, Applied Thermodynamics, Design of Machine Element, |

Principal
J D College of Engineering & Management
Khandala, Katol Road
Nagpur-441501



Head of Department