| 16 | 0 | | | | ECHNO | | | | | | • | | | |
|-----------|--------------|---|-----------|------------|----------------|---------------|---------------|-------------|--------------|------------|----------|---------|------|---------|
| - AL | Let . | | | Sc | heme of E | xaminat | ion (Se | mester- | l) | | | | | |
| Sec. 1 | End in the | | | for B | atch Adm | itted in | sessio | n - 202 | 4-25 | | | | | |
| | | B | achelo | r of Tec | hnology | (B. Tech | n.) – Inf | ormati | on Tec | hnolog | у | | | |
| | | | | | Max | imum Mark | s Allotte | d | | | 0 | ntact F | Ire | |
| Subject | Subject | Subject Name | | т | heory | | | Practica | I | Total | | maci r | 115. | Total |
| Code | | | ES | MS | Assign ment | Quiz | ES | LW | Quiz | Marks | L | т | Р | Credits |
| CHB101 | BSC | Applied Chemistry | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| CSA101 | ESC | Introduction to Computer Science Engineering | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| HUB101 | HSMC | Communication and Report Writing | 60 | 20 | 10 | 10 | | | | 100 | 3 | 0 | 0 | 3 |
| CSA102 | ESC | Digital Electronics | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| MAB101 | BSC | Linear Algebra and Calculus | 60 | 20 | 10 | 10 | | | | 100 | 3 | 1 | 0 | 4 |
| ILC100 | ILC | Extracurricular Activities | | | It is a | one credit pe | er year activ | vity endors | e in eight s | emester ma | arksheet | | | |
| Total | • | | 300 | 100 | 50 | 90 | 90 | 30 | 30 | 650 | 15 | 1 | 6 | 19 |
| MAC101 | MAC* | Universal Human Values and Professional Ethics | | | | | 60 | 20 | 20 | 100 | 0 | 0 | 2 | Grade |
| MST: Mini | imum two mio | d semester tests to be conducted du | iring Sem | ester, MAC | C: Mandatory | courses cla | asses will | be condu | cted in off | hours (We | eekend | s) | | |

| MAC | Induction Program | Non-Credit |
|-----|-------------------|--|
| HEC | NSS/NCC/NSO | Non-Credit |
| | w 122 - a 12 30 | has find the bolling wind first or constrained |

Abbreviations: ES -End Semester, MS- Mid Semester, LW- Laboratory Work/Assignment. (L: Lecture, T: Tutorial, P: Practical) BSC- Basic Science Course, ESC- Engineering Science Course, HSMC- Humanities Science and Management Course, MAC- Mandatory, Audit Course, AC- Audit Course, HEC- Holistic Education Course, ITC- Information Technology Course, ILC-Institute Level Course, DC- Department Course, DE-Department Elective, OC- Open Course, DLC-Department Laboratory, PROJ- Project Work

| 16 | D) | SAMRA (A Govt. Ai | | | ECHNO | | | | | | | | | | | | |
|------------|----------|--|--------|----------|---|--------------|---------------|------------|--------------|------------|---------|---------|------|---------|--|--|--|
| - Star | Fit | | | Sc | heme of E | xaminat | ion (Ser | nester- | II) | | | | | | | | |
| A STATE OF | NE WITH | | | for B | for Batch Admitted in session - 2024-25 | | | | | | | | | | | | |
| | | B | achelo | r of Teo | chnology | (B. Tecł | 1.) – Inf | ormati | on Tec | hnology | / | | | | | | |
| | | | | | Maxi | imum Marl | ks Allotte | d | | | 0.0 | ntact F | Ire | | | | |
| Subject | Subject | Subject Name | | Т | heory | | | Practical | | Total | Co | ntact F | irs. | Total | | | |
| Code | Category | | ES | MS | Assign ment | Quiz | ES | LW | Quiz | Marks | L | т | Ρ | Credits | | | |
| PYB101 | BSC | Applied Physics | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 | | | |
| CSA103 | ESC | Problem Solving and Data Structure | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 | | | |
| ITC101 | ITC | Python Programming | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 | | | |
| CSA104 | ESC | Principles of Software System | 60 | 20 | 10 | 10 | | | | 100 | 3 | 0 | 0 | 3 | | | |
| MAB102 | BSC | Statistics: Probability Distribution and DIfferential Equations | 60 | 20 | 10 | 10 | | | | 100 | 3 | 1 | 0 | 4 | | | |
| CSL110 | ESC | Computer Workshop (Linux Lab) | | | | | 30 | 10 | 10 | 50 | 1 | 0 | 2 | 2 | | | |
| ILC100 | ILC | Extracurricular Activities | | | It is a | one credit p | er year activ | ity endors | e in eight s | emester ma | rksheet | | | | | | |
| Total | | | 300 | 100 | 50 | 50 | 120 | 40 | 40 | 700 | 16 | 1 | 8 | 21 | | | |
| MAC102 | MAC* | Professional ethics and social responsibility | | | | | 30 | 10 | 10 | 50 | 0 | 0 | 2 | Grade | | | |

| ILC | Internship-I (60 Hrs) Institute Level | Non-Credit |
|-----|---------------------------------------|------------|
| HEC | NSS/NCC/NSO | Non-Credit |

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Abbreviations: ES -End Semester, MS- Mid Semester, LW- Laboratory Work/Assignment. (L: Lecture, T: Tutorial, P: Practical) Abbreviations: ES-End Semester, MS-Mid Semester, LW-Laboratory Work, Assignment (L:Lectre, T:Tutorial, P:Practical), BFC-Basic Science Course, ESC-Engineering Science Course, HSMC-Humanities Science & Management Course, MAC-Mandatory Audit Course, HEC-Holistic Education Course, ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course

| PEGREE | and the second se | | | | Scheme of Ex | xaminat | tion (S | lemest | er-III) | | | | | |
|---------------------|---|---|---|-----|-----------------|----------|---------|---------|----------|---|--------|-------|---------|---------|
| VIDISHA M.P. | | | | | for Batch Ad | | ` | | / | | | | | |
| A num motil mykaor. | | Bach | nelor of Technology (B. Tech.) – Information Technology (Dept. of IT) | | | | | | | | | | | |
| | | | | | Cor | Hrs. | | | | | | | | |
| Subject | Subject | Subject Name | | | Theory | • | J | Practio | cal | Total | pe | er we | ek | Total |
| Code | Category | | ES | MS | Assignment | Quiz | ES | LW | Quiz | Marks | L | Т | Р | Credits |
| MAB 301 | BSC | Discrete mathematics | 60 | 20 | 10 | 10 | | | | 100 | 3 | 0 | 0 | 4 |
| IT- 302 | DC | Communication system | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| IT- 303 | DC | Object Oriented Programming | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| IT-304 | DC | Analysis and Design of Algorithms | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| IT-305 | DC | Computer System Organisation | 60 | 20 | 10 | 10 | | | | 100 | 3 | 0 | 0 | 3 |
| IT-306 | DLC | Internet Programming | | | | | 30 | 10 | 10 | 50 | 0 | 0 | 4 | 2 |
| IT- 307 | ILC | Internship-I (60 Hrs) Institute Level (Evaluation) | | | | | 50 | - | - | 50 | - | - | 2 | 1 |
| · | Т | otal | 300 | 100 | 50 | 50 | 170 | 40 | 40 | 750 | 15 | 1 | 12 | 22 |
| | ILC | Extracurricular Activities | | Iti | is a one credit | ber year | activi | ty to b | e endors | ed in eight | semest | er ma | rks she | et. |
| MAC- 308 | MAC* | Energy, Ecology, Environment & Society | | | | | | • | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | Grade |
| HUM -309 | HEC* | Holistic Education Course | | | | | | | | | | | _ | Grade |

MST: Minimum two mid semester tests to be conducted during Semester* MAC and HEC courses classes will be conducted in off hours (Weekends) Abbreviations: ES-End Semester, MS-Mid Semester, LW-Laboratory Work, Assignment (L:Lectre, T:Tutorial, P:Practical), BFC-Basic Science Course, ESC-Engineering Science Course, HSMC-Humanities Science & Management Course, MAC-Mandatory Audit Course, HEC-Holistic Education Course, ILC-Institute Level Course, DC Department Course, DE-Department Elective, OE-Open Elective, DLC-Departmental Laboratory Course

| Y Ward | | | | | Schem | ne of Exai | nination | (Semest | ter-IV) | | | | | | |
|-----------|--------------------|---------------------------------|-----------------|--|-----------------|------------|------------|------------|-----------|-----------|--------|----------|---------------|------------------|--|
| LER. | ere | | | | for Bat | tch Admi | tted in so | ession - 2 | 2024-25 | | | | | | |
| when made | a mem | | B | Bachelor of Technology (B. Tech.) – Information Technology (Dept. of IT) | | | | | | | | | | | |
| | G 1 | | | | Maxim | um Mark | s Allotte | ed | | | Co | ntact] | Hrs. | Total Credi | |
| Subject | Subject Categor | Subject Name | |] | Theory | | - | Practica | l | Total | р | er we | Total Credits | | |
| Code | y | Subject Rune | ES | MS | Assignme nt | Quiz | ES | LW | Quiz | Mark s | L | Т | Р | | |
| IT-401 | DC | Computer Network | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 | |
| IT-402 | DC | Database Management System | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 | |
| IT-403 | DC | Automata and Compiler Design | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 | |
| IT-404 | DC | Software Engineering | 60 | 20 | 10 | 10 | | | | 100 | 3 | 1 | 0 | 4 | |
| IT-405 | DC | Information Theory and Coding | 60 | 20 | 10 | 10 | | | | 100 | 3 | 1 | 0 | 4 | |
| IT-406 | DL | Advance Java Programming | | | | | 30 | 10 | 10 | 50 | 0 | 0 | 4 | 2 | |
| | | Total | 300 | 100 | 50 | 50 | 180 | 60 | 60 | 750 | 15 | 2 | 10 | 22 | |
| | ILC | Extracurricular Activities | Based of sheet. | on partici | pation in extra | curriculu | m activit | ies, one c | redit per | year to b | e endo | orsed in | n the eig | ht semester mark | |

Internship-II (90 Hrs) External /Institute Level

| ALLES MILL | TECHNOLOGICAL MAIL | SAMR (A Govt. Aided U | | onomou | CHNOLOGIC s & NAAC Acc ne of Examinat | redited | Institut | e Affili | | | | | | |
|-----------------|--------------------|--|-----------|---------|---|----------|----------|----------|----------|----------------|------|------|------|---------|
| - VIII | DISHA M.P. | | f | | ch Admitted in | | | , | | | | | | |
| | n wing where | Bachelo | r of Tech | nology | (B. Tech.) –Infe | ormatio | n Techr | ology (| Dept. o | f IT) | | | | |
| Subject | Subject | | Maxi | mum M | larks Allotted | | | | | | | | Hrs. | Total |
| Subject Code | Category | Subject Name | | | Theory | | Pract | 1 | | Total Marks | per | 1 | | Credits |
| 0040 | | | ES | MS | Assignment | Quiz | ES | LW | Quiz | | L | Т | Р | |
| IT-501 | DC | Mobile Application Development | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| IT-502 | DC | Wireless & Mobile Computing | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| IT-503 | DC | Artificial Intelligence | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| IT-504 | DE-1 | | 60 | 20 | 10 | 10 | | | | 100 | 3 | 0 | 0 | 3 |
| IT-505 | OC-1 | | 60 | 20 | 10 | 10 | | | | 100 | 3 | 0 | 0 | 3 |
| IT-506 | DLC | IT Workshop (Matlab/Scilab) | | | | | 30 | 10 | 10 | 50 | 0 | 0 | 4 | 2 |
| IT-507 | ILC | Internship-II (60 Hrs) Institute Level (Evaluation) | | | | | 50 | | | 50 | _ | - | 4 | 2 |
| Total | | | 300 | 100 | 50 | 50 | 170 | 40 | 40 | 750 | 15 | 0 | 14 | 22 |
| IT-508 | ILC | Extracurricular Activities | It is a | a one c | redit per year | activity | y to be | endor | sed in e | eight semester | mark | s sh | eet. | 1 |

| | DE -1 | OC-1 |
|---|-----------------------------|-------------------------------------|
| Α | Block chain Technology | Mobile Application Development |
| В | Digital Image Processing | Analog and Digital Communication |
| С | Natural Language Processing | Communication System |

Minor Degree and Honour Degree:

Students can opt any number of subjects depending on the number of credits he/she wants to earn in a particular semester for Honours/Minor Degree. Total 20 credits required for Honours/Minor Degree (From V to VIII Semester – Refer pool of attached subjects for Honours/Minor Degree)

| State TECHNOLOGICE HE | | | SAMRAT ASHO | | | | | | | · · | pal) | | | |
|-----------------------|---------------------------------------|---------------------------------------|------------------|----------|------------------|----------|----------------|---------|----------|------------|--------|-------|--------|---------|
| Way and a way | Į. | | | Schem | e of Examination | n (Sem | ester-V | I) | | | | | | |
| VIDISHA M.P. | b | | f | r Batcl | h Admitted in | sessior | - 202 | 4-25 | | | | | | |
| | | Be | achelor of Techr | ology (! | B. Tech.) – Info | rmatior | ı Techr | iology | (Dept. o | of IT) | | | | |
| | · · · · · · · · · · · · · · · · · · · | | | | Maxim | num Mai | rks All | lotted | | _ | Co | ntact | Total | |
| Subject Code | Subject | Subject Name | | | Theory | I | <u> </u> | Practic | al | Total | р | er we | ek | Credits |
| | Category | | ES | MS | Assignment | Quiz | ES | LW | Quiz | Marks | L | Т | Р | |
| IT-601 | DC | Data Mining and Warehousing | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| IT-602 | DC | Web Application Development | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 4 |
| IT-603 | DE-2 | | 60 | 20 | 10 | 10 | | † | | 100 | 3 | 1 | 0 | 4 |
| IT-604 | DE-3 | | 60 | 20 | 10 | 10 | | | | 100 | 3 | 1 | 0 | 4 |
| IT-605 | OC-2 | | 60 | 20 | 10 | 10 | | | | 100 | 3 | 0 | 0 | 3 |
| IT-606 | DLC | Android Programming | | | | | 30 | 10 | 10 | 50 | 0 | 0 | 2 | 1 |
| IT-607 | · | Minor Project | | \top | | <u> </u> | 50 | 50 | | 100 | 0 | 0 | 4 | 2 |
| Total | | | 300 | 0 100 | 50 | 50 | 150 | 50 | 50 | 750 | 15 | 2 | 10 | 22 |
| IT-608 | ILC | Extracurricular Activities | | It | is a one credit | t per ye | ear act | ivity e | endorse | in eight s | emeste | er ma | rk she | et |
| MST: Minim | um two mid s | semester tests to be conducted during | | | | | | | | | | | | |
| | | DE -2 | DE -3 | | | 0 | O C – 2 | | | | | | | |
| А | X | Cloud Computing | Information | Securit | ly l | W | /eb Ar | plicat | tion De | velopmen | t | | | |
| В | \$ | Sensor Network | Data Science | Analy | /tics | Bi | ig Dat | a Ana | lytics | | | | | |
| С | | Soft Computing | Robotics Pro | cess A | utomation | D' | eep Le | earnin | g | | | | | |

Internship-III (120 Hrs) External /Institute Level

Minor Degree and Honour Degree:

Students can opt any number of subjects depending on the number of credits he/she wants to earn in a particular semester for Honours/Minor Degree. Total 20 credits required for Honours/Minor Degree (From V to VIII Semester – Refer pool of attached subjects for Honours/Minor Degree)

| THIN TECHNOLOG | | (A Gov | | | IOK TECHNOLO onomous & NAAC | | | | | | Bho | pal) | | |
|-------------------|---|--|---------|--------------|--------------------------------|-----------|-----------|-----------|------------|------------|-------|---------|---------|-------|
| North Contraction | and the second se | | | | Scheme of Exami | nation (| Semeste | er-VII) | | | | | | |
| VIDISHA M | R | | | | for Batch Admitt | ed in ses | sion - 20 | 24-25 | | | | | | |
| | | | Bac | helor of Teo | chnology (B. Tech.) | – Inform | nation 7 | Fechnol | ogy (Dep | ot. of IT) | | | | |
| | | | Maxi | mum Mark | s Allotted | | | | | | Cor | ntact I | Hrs. | Total |
| Subject | Subject | Subject Name | Theorem | ry | | Practical | | | Total | per | week | | Credits | |
| Code | Category | bubjeertuite | ES | MS | Assignment | Quiz | ES | LW | Quiz | Marks | L | Т | Р | |
| IT-701 | DC | Software Testing and Quality | 60 | 20 | 10 | 10 | 30 | 10 | 10 | 150 | 3 | 0 | 2 | 04 |
| IT-702 | DE-4 | | 60 | 20 | 10 | 10 | | | | 100 | 3 | 1 | 0 | 04 |
| IT-703 | DE-5 | | 60 | 20 | 10 | 10 | | | | 100 | 3 | 1 | 0 | 04 |
| IT-704 | PROJ | Major Project Prelim | | | | | 60 | 20 | 20 | 100 | 0 | 0 | 8 | 04 |
| IT-705 | ILC | Internship-III (Completed in Third Year) | | | | | 30 | 10 | 10 | 50 | 0 | 0 | 4 | 02 |
| Total | | | 180 | 60 | 30 | 30 | 120 | 40 | 40 | 500 | 9 | 2 | 14 | 18 |
| IT-706 | ILC | Extracurricular Activities | | | It is a one cre | dit per y | ear activ | vity endo | rse in eig | ght semes | ter m | ark sh | eet | · |
| MST: Mi | nimum two | mid semester tests to be con | ducted | during Seme | ster | | | | | | | | | |

| | DE -4 | DE-5 |
|---|---------------------|-----------------------------------|
| Α | Distributed System | Information and Storage Retrieval |
| В | Internet Technology | Optimization Techniques |
| С | Computer Vision | Pattern Recognition |

Minor Degree and Honour Degree:

Students can opt any number of subjects depending on the number of credits he/she wants to earn in a particular semester for Honours/Minor Degree. Total 20 credits required for Honours/Minor Degree (From V to VIII Semester – Refer pool of attached subjects for Honours/Minor Degree)

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|--|------------------|----------------------------|------------------------|----------------|--|-------------|----------------|------------------|------|--------|----|---------|
| ALC. | Celle | | | Schem | ne of Examination (Ser | mester-VIJ | (I) | | | | | |
| VIDISH Vida ast | HA M.P. | | | for Ba | atch Admitted in session | on - 2024-2 | 25 | | | | | |
| | | | Bachelor | of Technolog | y (B. Tech.) - Inform | nation Tech | nology (Dept. | of IT) | | | | |
| | | | Maximum Marks Allotted | | | | | | | | | |
| Subject | 0 | Subject Name | | Theory | 1 | F | Practical | | р | er wee | ek | Credits |
| • • | Category | Sumeri Name | ES | MS | Assignment/ Quiz | ES | LW/ Quiz | — Total Marks | L | Т | Р | |
| IT-801 | Major Project | Major Projec | | | | 300 | 200 | 500 | 0 | 0 | 20 | 10 |
| IT-802 | ILC | Extracurricular Activities | | It is a one cr | redit per year activity e | ndorsed in | eight semester | mark sheet | | L | | 04 |
| Total | - I | | | | | 300 | 200 | 500 | | | | 14 |

Minor Degree and Honour Degree:

Students can opt any number of subjects depending on the number of credits he/she wants to earn in a particular semester for Honours/Minor Degree. Total 20 credits required for Honours/Minor Degree (From V to VIII Semester – Refer pool of attached subjects for Honours/Minor Degree)

| S. No. | Honours Degree for students of parent department | Credit | Minor Degree for students of other department | Credit |
|--------|--|--------|--|--------|
| 1. | Advanced Distributed Systems | 3 | Statistical Learning for Reliability Analysis | 3 |
| 2. | Multi-Core Computer Architecture | 3 | Social Network Analysis | 3 |
| 3. | Web Based Technologies and Multimedia Application | 3 | Fundamentals of Communication System and Its Application | 3 |
| 4. | Cloud Computing | 2 | Introductory concept of Digital Computing | 3 |
| 5. | Deep Learning for Computer Vision | 3 | Practical Cyber Security for Cyber Security Practitioners | 3 |
| 6. | Cyber Security, Tools, Techniques and Counter Measures | 3 | Google Cloud Computing Foundations | 2 |
| 7. | Responsible & Safe AI Systems | 3 | Introduction To Industry 4.0 And Industrial Internet Of Things | 3 |
| 8. | Software Conceptual Design | 3 | Distributed Optimization and Machine Learning, | 3 |

Tentative Pool of subjects for Honours and Minor Degree SWAYAM/NPTEL/MOOC's Courses

*Note: Those subjects which are already studied in the core scheme from I to VIII semester cannot be opted.

20 additionally to be earned between V to VIII semester Maximum 6 credits per semester from \hat{V} semester onwards will be permitted.