

Approved Course Structure

Program: M.Tech.- Computer Science

Regulations: SVEC-19

I - Semester

| Sl. No. | Course Code | Course Title | Contact Hours per week | | | | Credits C | Scheme of Examinations Max. Marks | | |
|--------------|-------------|--|--------------------------|----------|----------|-----------|-----------|-----------------------------------|----------------|-------------|
| | | | L | T | P | Total | | Internal Marks | External Marks | Total Marks |
| 1. | 19MT10501 | Advanced Algorithms | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| 2. | 19MT10502 | Advanced Data Structures | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| 3. | 19MT10503 | Mathematical Foundations of Computer Science | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| | | Program Elective - 1 | | | | | | | | |
| | | 19MT26302 | Wireless Sensor Networks | | | | | | | |
| 4. | 19MT10504 | Artificial Intelligence | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| | 19MT10505 | Data Warehousing and Data Mining | | | | | | | | |
| | 19MT10506 | Image Processing | | | | | | | | |
| | | Program Elective - 2 | | | | | | | | |
| | | 19MT16303 | Cloud Computing | | | | | | | |
| 5. | 19MT10507 | Big Data Analytics | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| | 19MT10508 | High Performance Computing | | | | | | | | |
| | 19MT10509 | Machine Learning | | | | | | | | |
| 6. | 19MT10708 | Research Methodology and IPR | 2 | - | - | 2 | 2 | 40 | 60 | 100 |
| 7. | 19MT10531 | Advanced Algorithms Lab | - | - | 4 | 4 | 2 | 50 | 50 | 100 |
| 8. | 19MT10532 | Advanced Data Structures Lab | - | - | 4 | 4 | 2 | 50 | 50 | 100 |
| Total | | | 17 | - | 8 | 25 | 21 | 340 | 460 | 800 |
| 9. | 19MT1AC01 | Technical Report Writing | 2 | - | - | 2 | - | - | - | - |

II - Semester

| Sl. No. | Course Code | Course Title | Contact Hours per week | | | | Credits C | Scheme of Examinations Max. Marks | | |
|-----------------------------|-------------|--|------------------------|----------|----------|-----------|-----------|-----------------------------------|----------------|-------------|
| | | | L | T | P | Total | | Internal Marks | External Marks | Total Marks |
| 1. | 19MT20501 | Data Science | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| 2. | 19MT20502 | Web Technologies | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| Program Elective - 3 | | | | | | | | | | |
| 3. | 19MT26305 | Internet of Things | | | | | | | | |
| | 19MT20503 | Artificial Neural Networks and Deep Learning | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| | 19MT20504 | Computer Vision | | | | | | | | |
| | 19MT20505 | Data Preparation and Analysis | | | | | | | | |
| Program Elective - 4 | | | | | | | | | | |
| 4. | 19MT20506 | Cyber Security | | | | | | | | |
| | 19MT20507 | Recommender Systems | 3 | - | - | 3 | 3 | 40 | 60 | 100 |
| | 19MT20508 | Soft Computing | | | | | | | | |
| | 19MT20509 | Virtual Reality and Augmented Reality | | | | | | | | |
| 5. | 19MT2MOOC | Open Elective (MOOC) | - | - | - | - | 3 | - | 100 | 100 |
| 6. | 19MT20531 | Data Science Lab | - | - | 4 | 4 | 2 | 50 | 50 | 100 |
| 7. | 19MT20532 | Web Technologies Lab | - | - | 4 | 4 | 2 | 50 | 50 | 100 |
| Total | | | 12 | - | 8 | 20 | 19 | 260 | 440 | 700 |
| 8. | 19MT2AC01 | Statistics with R | 2 | - | - | 2 | - | - | - | - |

III - Semester

| Sl. No. | Course Code | Course Title | Contact Hours per week | | | | Credits C | Scheme of Examinations Max. Marks | | |
|--------------|-------------|----------------------|------------------------|---|---|-------|-----------|-----------------------------------|----------------|-------------|
| | | | L | T | P | Total | | Internal Marks | External Marks | Total Marks |
| 1. | 19MT30531 | Internship | - | - | - | - | 2 | - | 100 | 100 |
| 2. | 19MT30532 | Project Work Phase-I | - | - | - | - | 10 | 50 | 50 | 100 |
| Total | | | - | - | - | - | 12 | 50 | 150 | 200 |

IV - Semester

| Sl. No. | Course Code | Course Title | Contact Hours per week | | | | Credits C | Scheme of Examinations Max. Marks | | |
|--------------------------|-------------|-----------------------|------------------------|---|---|-----------|-----------|-----------------------------------|----------------|-------------|
| | | | L | T | P | Total | | Internal Marks | External Marks | Total Marks |
| 1. | 19MT40531 | Project Work Phase-II | - | - | - | - | 16 | 150 | 150 | 300 |
| Total | | | - | - | - | - | 16 | 150 | 150 | 300 |
| Total Credits | | | | | | 68 | | | | |
| Grand Total Marks | | | | | | | | | 2000 | |



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