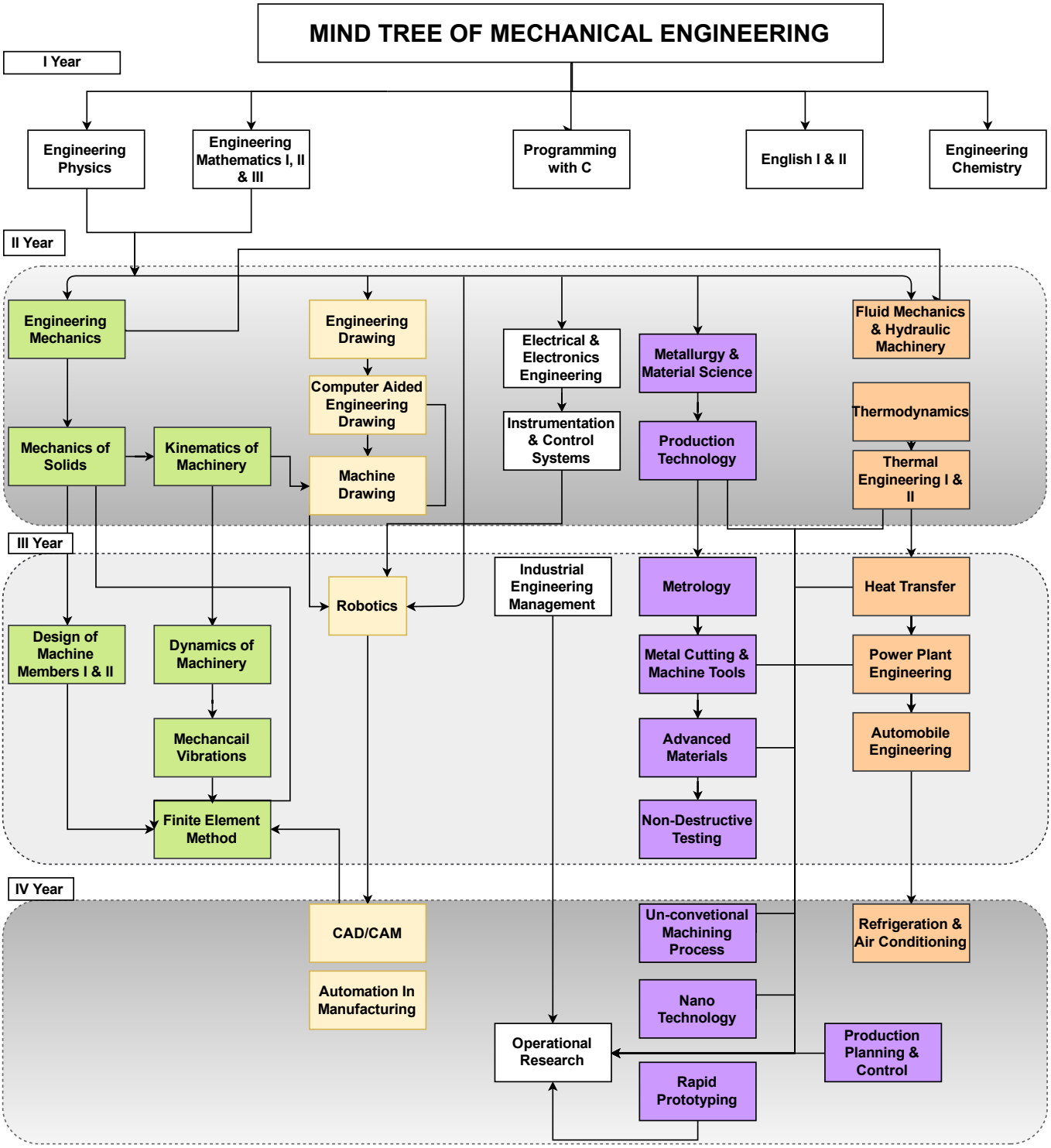
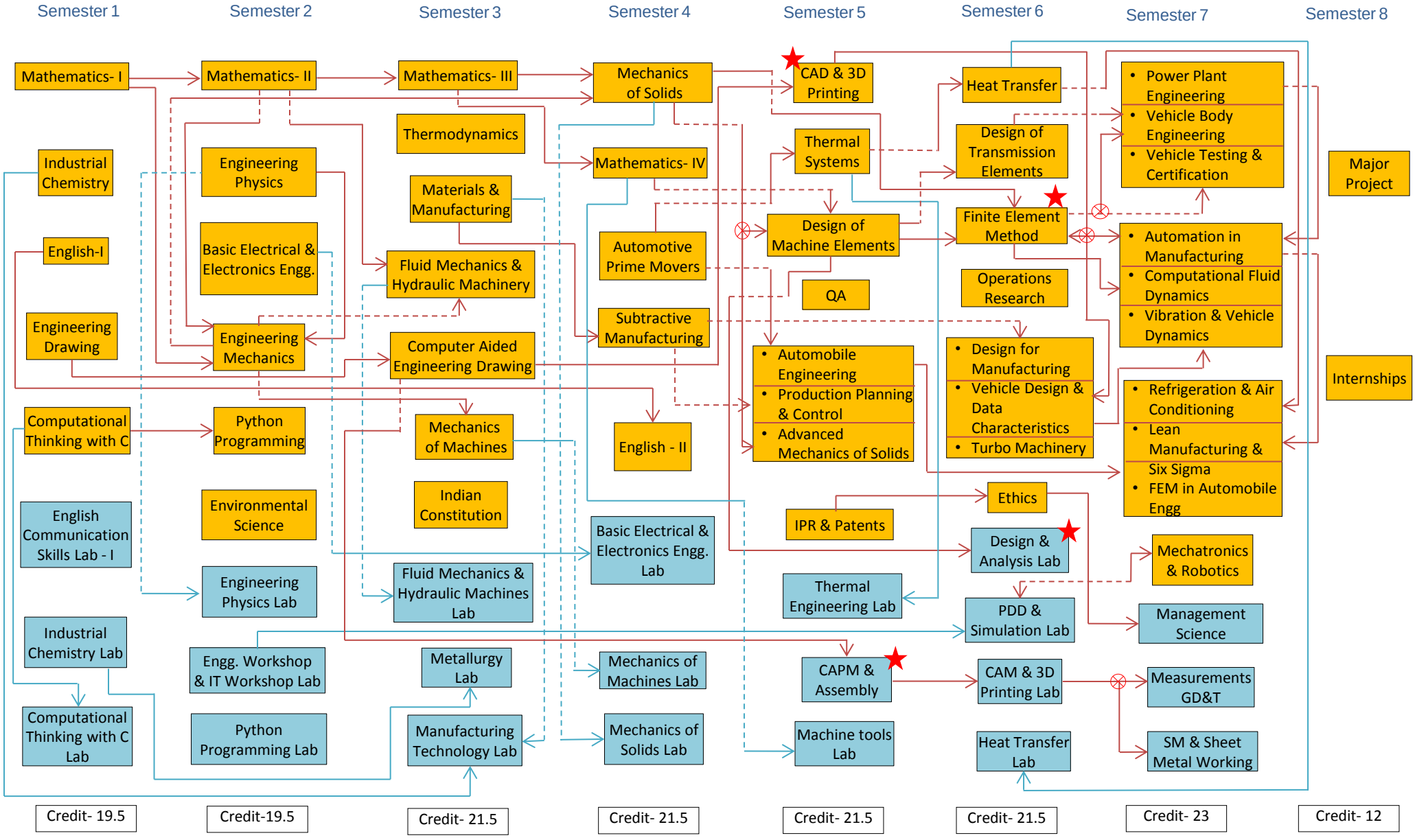

MIND TREE OF MECHANICAL ENGINEERING
I Year
Engineering Physics
Engineering Mathematics I, II & III
Programming with C
English I & II
Engineering Chemistry
II Year
Engineering Mechanics
Engineering Drawing
Computer Aided Engineering Drawing
Machine Drawing
Electrical & Electronics Engineering
Instrumentation & Control Systems
Metallurgy & Material Science
Production Technology
Fluid Mechanics & Hydraulic Machinery
Thermodynamics
Thermal Engineering I & II
Mechanics of Solids
Kinematics of Machinery
III Year
Robotics
Industrial Engineering Management
Metrology
Metal Cutting & Machine Tools
Advanced Materials
Non-Destructive Testing
Heat Transfer
Power Plant Engineering
Automobile Engineering
Design of Machine Members I & II
Dynamics of Machinery
Mechancail Vibrations
Finite Element Method
IV Year
CAD/CAM
Automation In Manufacturing
Operational Research
Un-convetional Machining Process
Nano Technology
Rapid Prototyping
Production Planning & Control
Refrigeration & Air Conditioning

DEPARTMENT OF MECHANICAL ENGINEERING

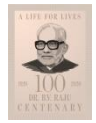
MIND MAP – R20 REGULATION



VISHNU
UNIVERSAL LEARNING

DEPARTMENT OF MECHANICAL ENGINEERING

HONORS MIND MAP – R20 REGULATION



POOL - I	POOL - II	POOL - III	POOL - IV	HONORS
Battery & Fuel Cells	Vehicle Testing & Certification	Noise, Vibrations & Harshness	Autotronics & Safety	AUTOMOBILE ENGINEERING
Optimization in Engineering Design	Experimental Stress Analysis	Continuum Mechanics & Tensor Analysis	Condition Monitoring & Fault Diagnostic of Machines	ENGINEERING DESIGN
Product Design for Manufacturing	Tool Design	Nano Technology	Advanced Machining Process	ADVANCED MANUFACTURING TECHNOLOGY
Advanced Thermodynamics	Integrated Energy Systems	Design & Selection of Heat Transfer Equipment	Renewable Energy Sources	ENERGY ENGINEERING

- PE → → Professional Elective.
- FM&HM Lab → → Fluid Mechanics & Hydraulic Machinery Lab.
- CAED → → Computer Aided Engineering Design.
- CAMD → → Computer Aided Machine Design
- M&MT Lab → → Materials & Manufacturing Technology Lab.
- MOS & MT Lab → → Mechanics of Solids & Machine Tools Lab
- CAD → → Computer Aided Design
- MOM → → Mechanics of Machines.
- TE → → Thermal Engineering.
- AMS → → Advanced Mechanics of solids.
- PPC → → Production Planning and Control.
- AE → → Automobile Engineering.
- VD&DC → → Vehicle Design & Data Characteristics.
- DFM → → Design for Manufacturing.
- TM → → Turbo Machinery.
- AM&NDE → → Advanced Materials & NDE.
- RAC → → Refrigeration and Air Conditioning.
- AEL → → Automotive Electronics.
- GDNT → → Geometrical Dimensioning & Tolerancing.
- GD & JP → → Gas dynamics and Jet propulsion.
- CFD → → Computational Fluid Dynamics.
- PPE → → Power Plant Engineering.
- VT&C → → Vehicle Testing & Certification.
- AIM → → Automation in Manufacturing.
- LM&SS → → Lean Manufacturing and Six Sigma.
- VBE → → Vehicle Body Engineering.
- V&VD → → Vibrations and Vehicle Dynamics.
- FEM → → Finite Element Methods.
- HT Lab → → Heat Transfer.
- DA Lab → → Design Analysis.
- PDD Lab → → Product Design and Development lab

Summming Junction- Itmeans input is equally distributed to more than one output.

Dashed line- Represents that this line doesn't intersects to any of the line and is connecting its origin to destination without intersecting with any other lines in its path.

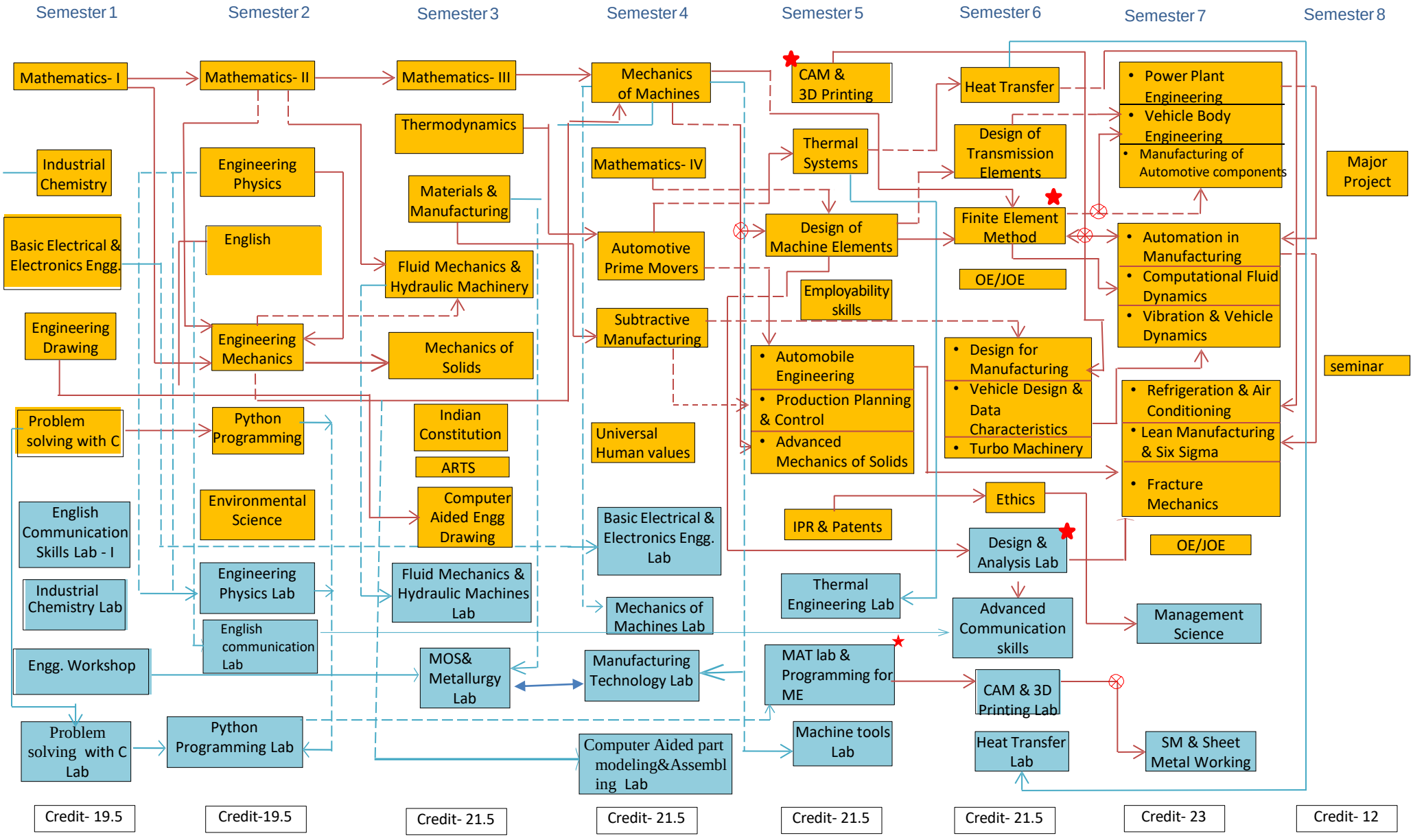
Red arrow- Interlinks the academic Subject.

Blue arrow- Interlinks the subject to Respective Lab.

Red star- Represents that subjects are
Interlinked for the same semester.

DEPARTMENT OF MECHANICAL ENGINEERING

MIND MAP – R22 REGULATION



Minors of CSE
- ✓ Core Programming
- ✓ DBMS
- ✓ Fundamental of Data structures
- ✓ Web technologies

Minors of AI&DS
- ✓ ML using python
- ✓ Data structures using C
- ✓ DBMS
- ✓ Data Science using Python

Minors of Information Technology
- ✓ Software Engineering
- ✓ Web development
- ✓ DBMS
- ✓ JAVA

Minors of ECE
- ✓ Sensors and Applications
- ✓ Embedded systems
- ✓ Robotics
- ✓ Control systems

Minors of EEE
- ✓ Power Electronics for Electric Vehicles
- ✓ Electric drives for electric vehicles
- ✓ Energy storage and BMS
- ✓ Electric & Hybrid vehicles

Job oriented electives
- ✓ Mechatronics and Robotics
- ✓ Measurements and GD&T
- ✓ Supply Chain management
- ✓ Mining technology
- ✓ Electric Vehicles
- ✓ Advanced Materials

	Summing Junction- Itmeans input is equally distributed to more than one output.
	Dashed line- Represents that this line doesn't intersects to any of the line and is connecting its origin to destination without intersecting with any other lines in its path.
	Red arrow- Interlinks the academic Subject.
	Blue arrow- Interlinks the subject to Respective Lab.
	Red star- Represents that subjects are Interlinked for the same semester.