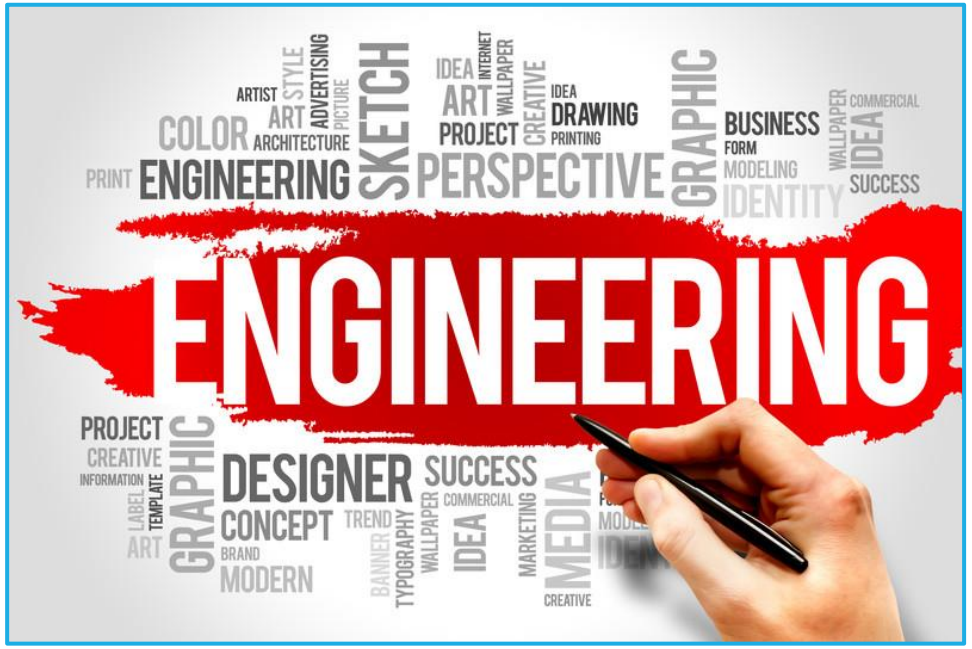
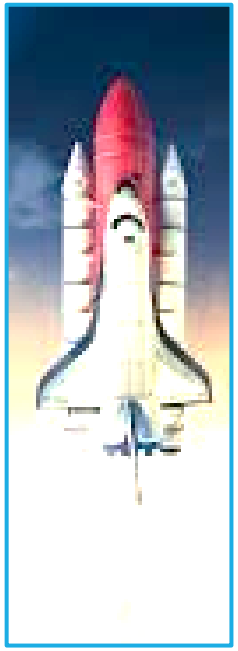
COMPUTER ENGINEERING

Er. Shiva K. Shrestha
Head, Computer Department
Khwopa College of Engineering

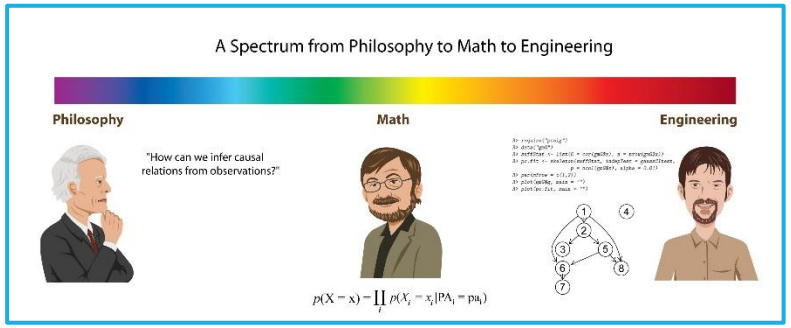
ENGINEERING

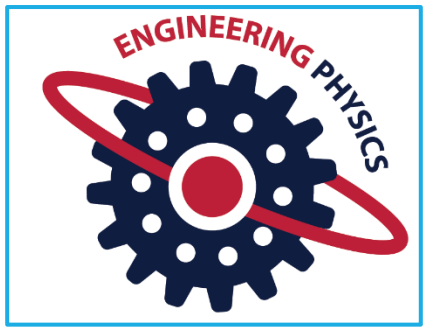


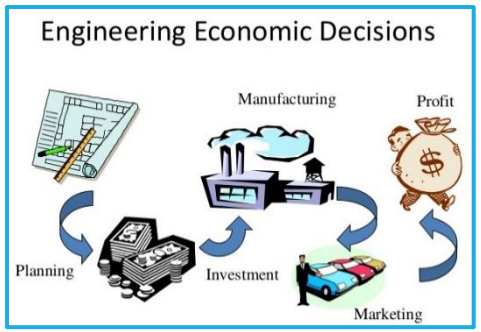


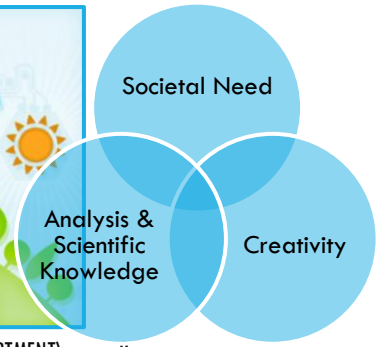
Engineering

- Civil Engineering
- Computer Engineering
- Electrical Engineering
- Electronics, Communication & Information Engineering
- Agriculture Engineering
- Aerospace Engineering
- Mechanical Engineering, etc.

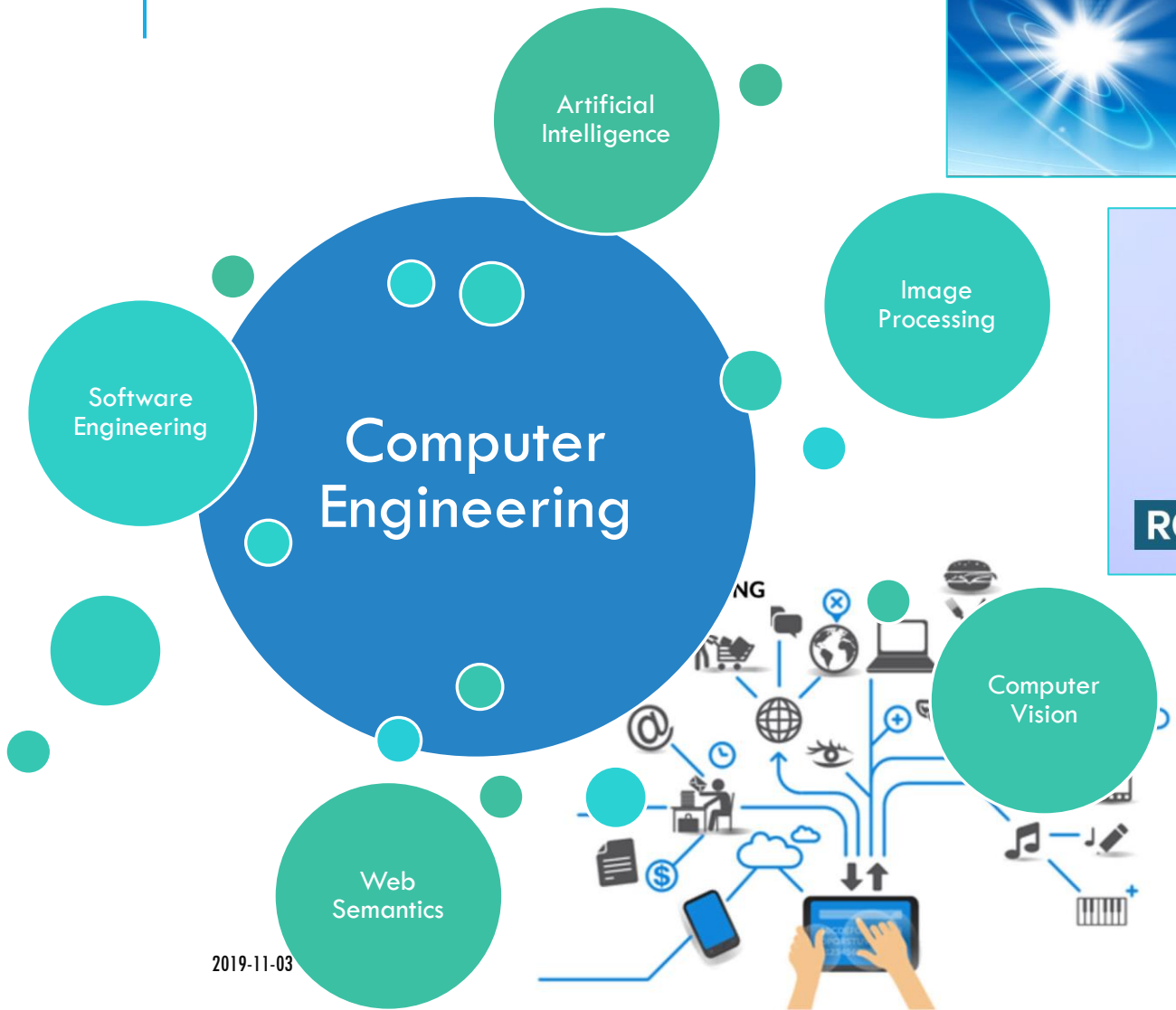


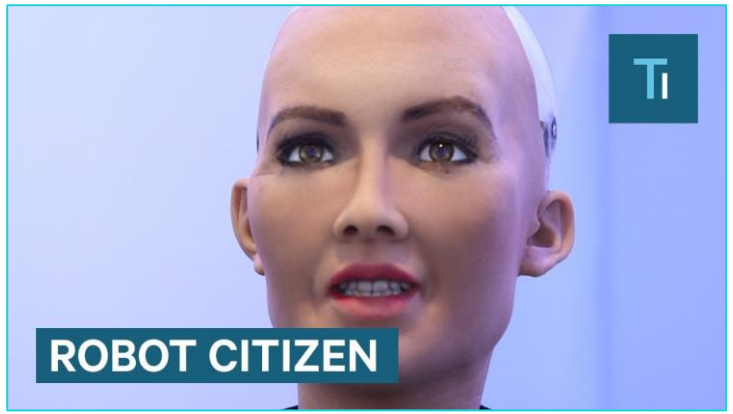


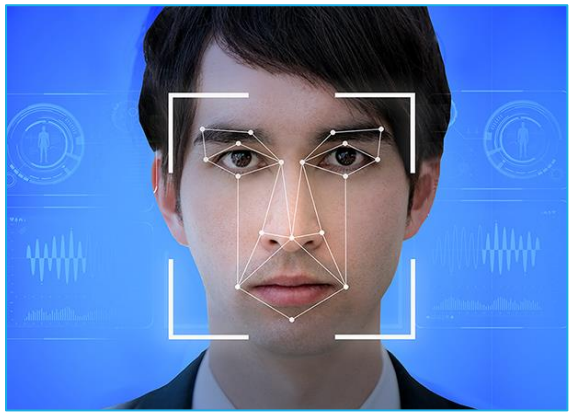


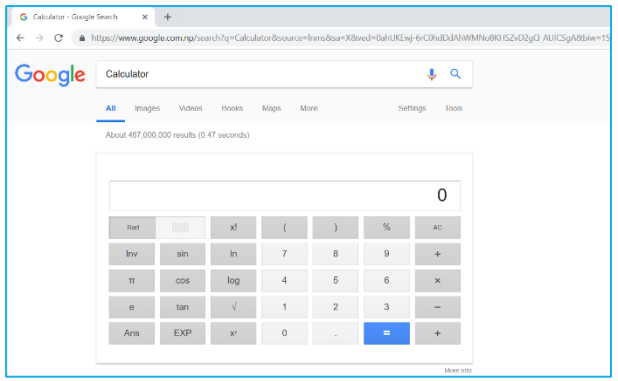


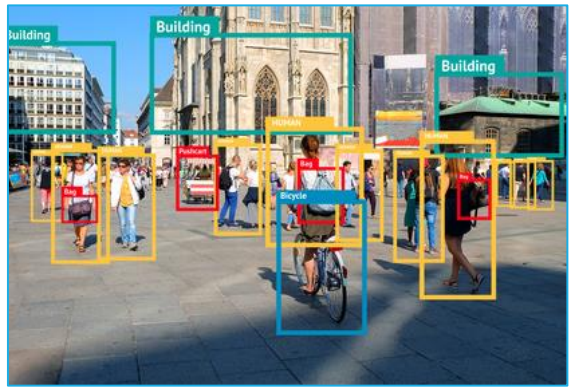
BCT


Artificial Intelligence
Image Processing
Software Engineering
Computer Engineering
Computer Vision
Web Semantics

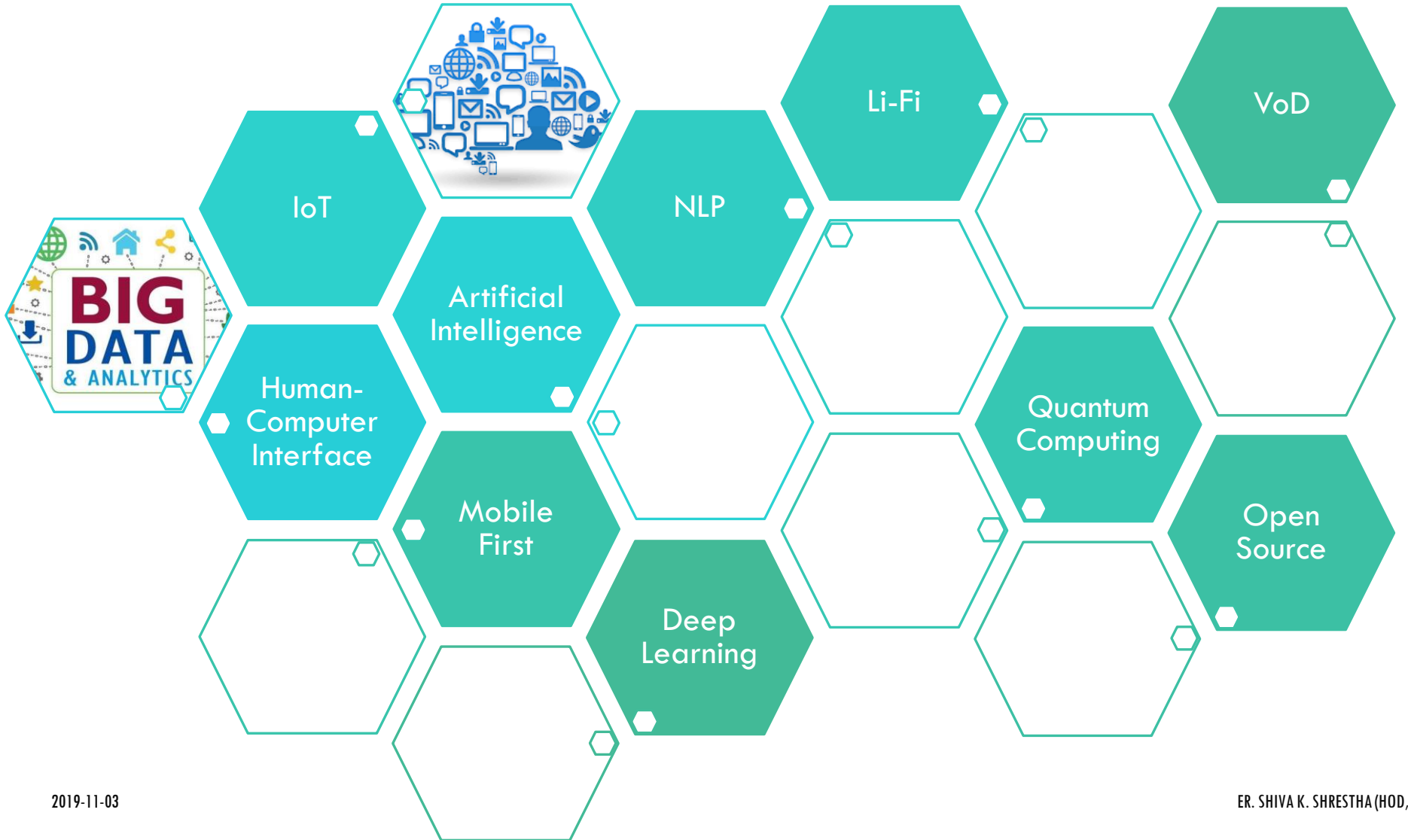

ROBOT CITIZEN




Google
Calculator


Building
Building
Building

HOT TOPICS


BIG DATA & ANALYTICS
IoT
Artificial Intelligence
NLP
Li-Fi
VoD
Human-Computer Interface
Quantum Computing
Mobile First
Open Source
Deep Learning

CURRICULUM

1. Introduction
   - Duration: 4 Years
   - Parts: 8 Semesters
   - Working Days: Min 90 (15 Weeks)
   - Subjects: 55
2. Internal Assessment
   - 20% of Total Marks
   - 80% Attendance
3. Final Examination
   - 80 or 40 Marks
4. Pass Marks
   - At least 40% required in both Internal Assessment & Final Examination
   - Provision of NQ
5. Evaluation System
   a. Weight to Percentage
      - 1st Year: 20%
      - 2nd Year: 20%
      - 3rd Year: 30%
      - 4th Year: 30%
   b. Division Awarded
      - Distinction – 80% & Above
      - First – 65%+ & Below 80%
      - Second – 50%+ & Below 65%
      - Pass – 40%+ & Below 50%

I SEMESTER (1ST YEAR/1ST PART)

- C-Programming
- Math-I
- Physics
- Applied
- Basic Electrical
- Drawing-I

I SEMESTER (1ST YEAR/1ST PART)

S.N.	Code	Course Title	Internal Marks		Final Marks	
			Th.	Pr.	Th.	Pr.
1	SH 401	Engineering Mathematics I	20	-	80	-
2	CT 401	Computer Programming	20	50	80	-
3	ME 401	Engineering Drawing I	-	60	-	40
4	SH 402	Engineering Physics	20	20	80	30
5	CE 401	Applied Mechanics	20	-	80	-
6	EE 401	Basic Electrical Engineering	20	25	80	-

II SEMESTER (1ST YEAR/2ND PART)

- Math-II
- Chemistry
- Basic Electronics
- Drawing-II
- Thermo
- Workshop

II SEMESTER (1ST YEAR/2ND PART)

S.N.	Code	Course Title	Internal Marks		Final Marks	
			Th.	Pr.	Th.	Pr.
1	SH 451	Engineering Mathematics - II	20	-	80	-
2	ME 451	Engineering Drawing II	-	60	-	40
3	EX 451	Baisc Electronics Engineering	20	25	80	-
4	SH 453	Engineering Chemistry	20	20	80	30
5	ME 452	Fundamental of Thermodynamics & Heat Transfer	20	25	80	-
6	ME 453	Workshop Technology	10	40	-	-

III SEMESTER (2ND YEAR/1ST PART)

C++

TOC

Math-II

Electric Circuit Theory

Electronics Devices & Circuits

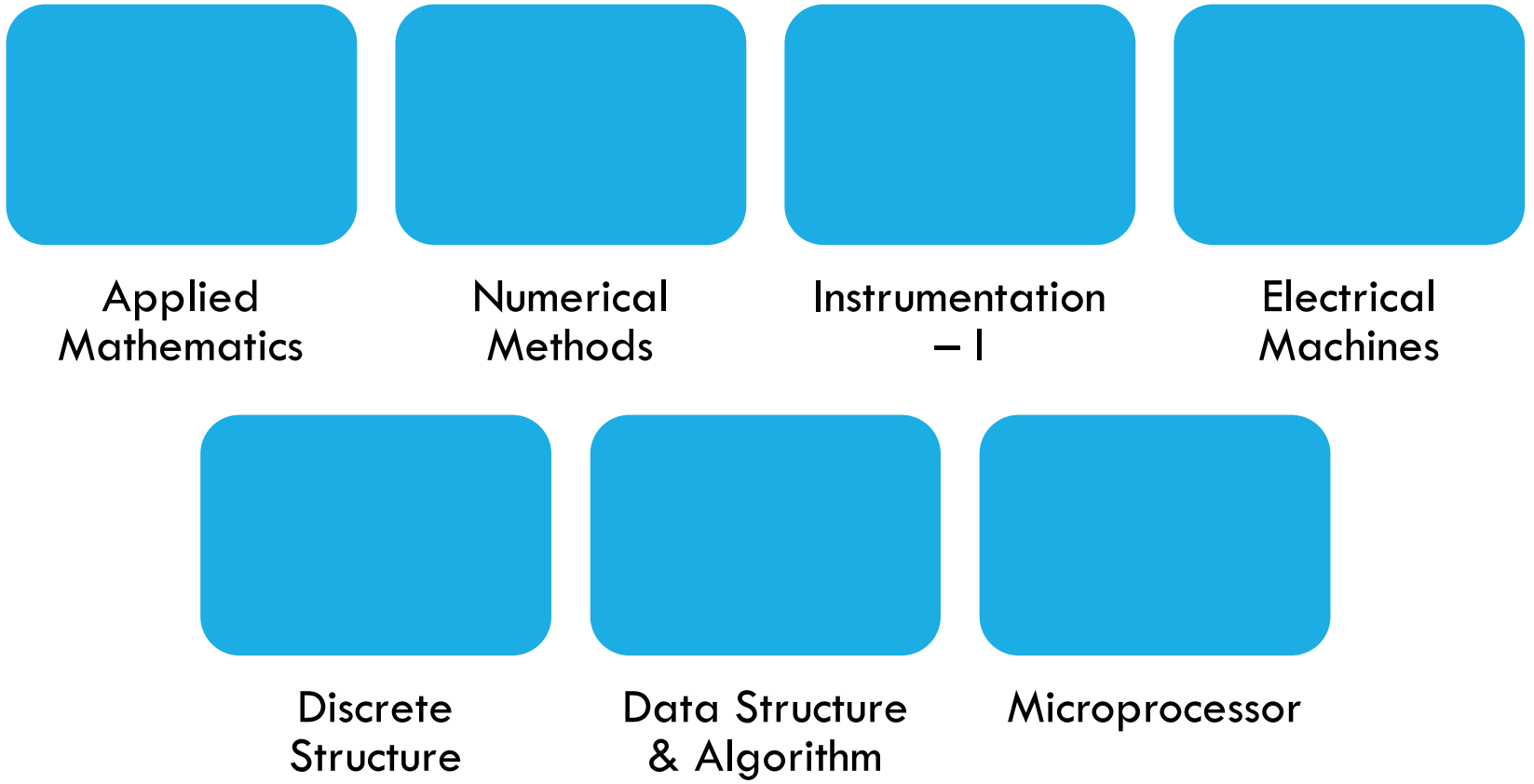
Digital Logic

Electromagnetics

III SEMESTER (2ND YEAR/1ST PART)

S.N.	Code	Course Title	Internal Marks		Final Marks	
			Th.	Pr.	Th.	Pr.
1	SH 501	Engineering Mathematics III	20	-	80	-
2	CT 501	Object Oriented Progaraminng	20	50	80	-
3	CT 502	Theory of Computation	20	-	80	-
4	EE 501	Electric Circuit Theory	20	25	80	-
5	EX 501	Electronic Device & Circuits	20	25	80	-
6	EX 502	Digital Logic	20	50	80	-
7	EX 503	Electromagnetics	20	25	80	-

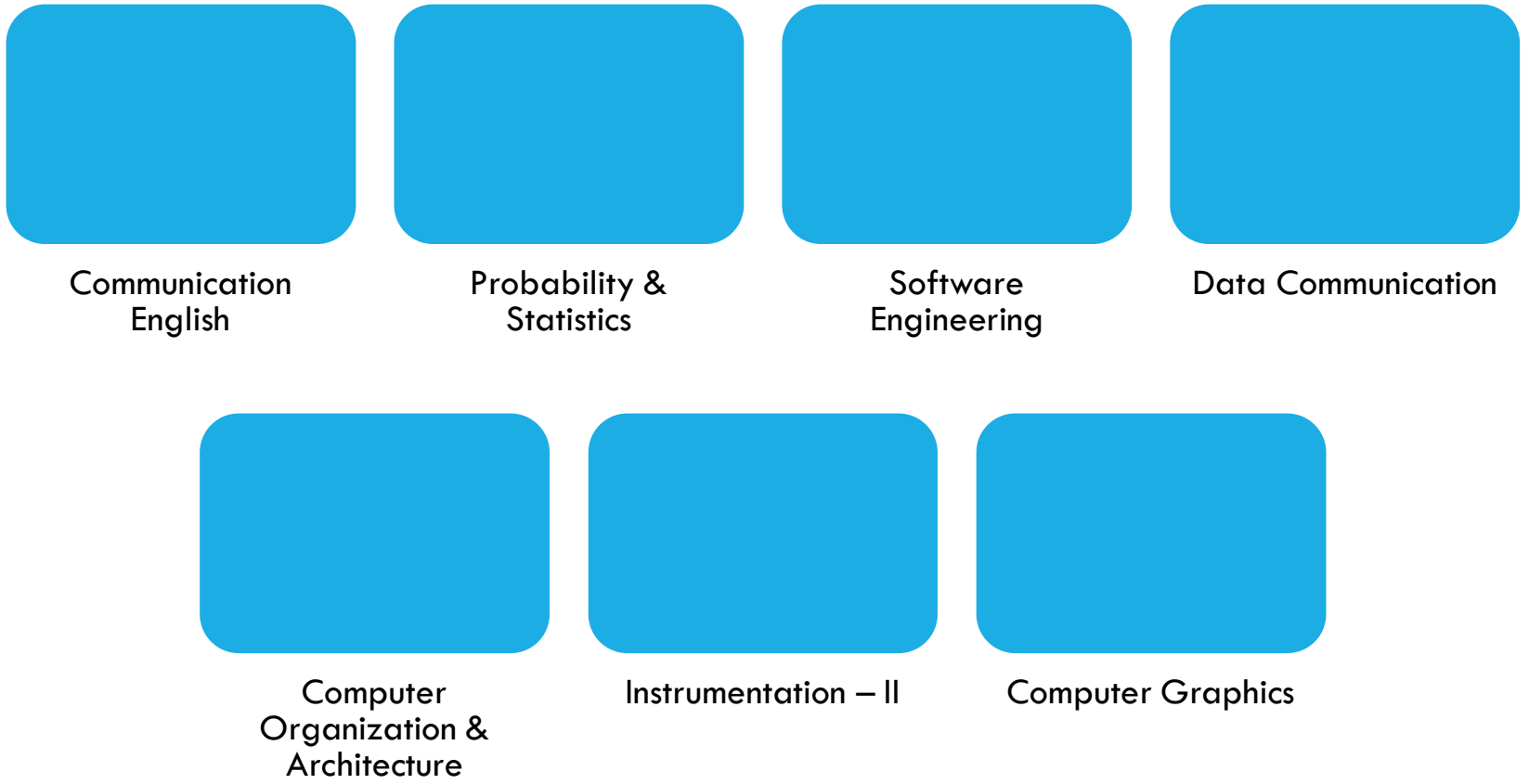
III SEMESTER (2ND YEAR/1ST PART)



IV SEMESTER (2ND YEAR/2ND PART)

S.N.	Code	Course Title	Internal Marks		Final Marks	
			Th.	Pr.	Th.	Pr.
1	SH 551	Applied Mathematics	20	-	80	-
2	SH 553	Numerical Methods	20	50	80	-
3	EE 552	Instrumentation I	20	25	80	-
4	EE 554	Electrical Mechines	20	25	80	-
5	CT 551	Discrete Structure	20	-	80	-
6	CT 552	Data structure and algorithm	20	50	80	-
7	EX 551	Microprocessor	20	50	80	-

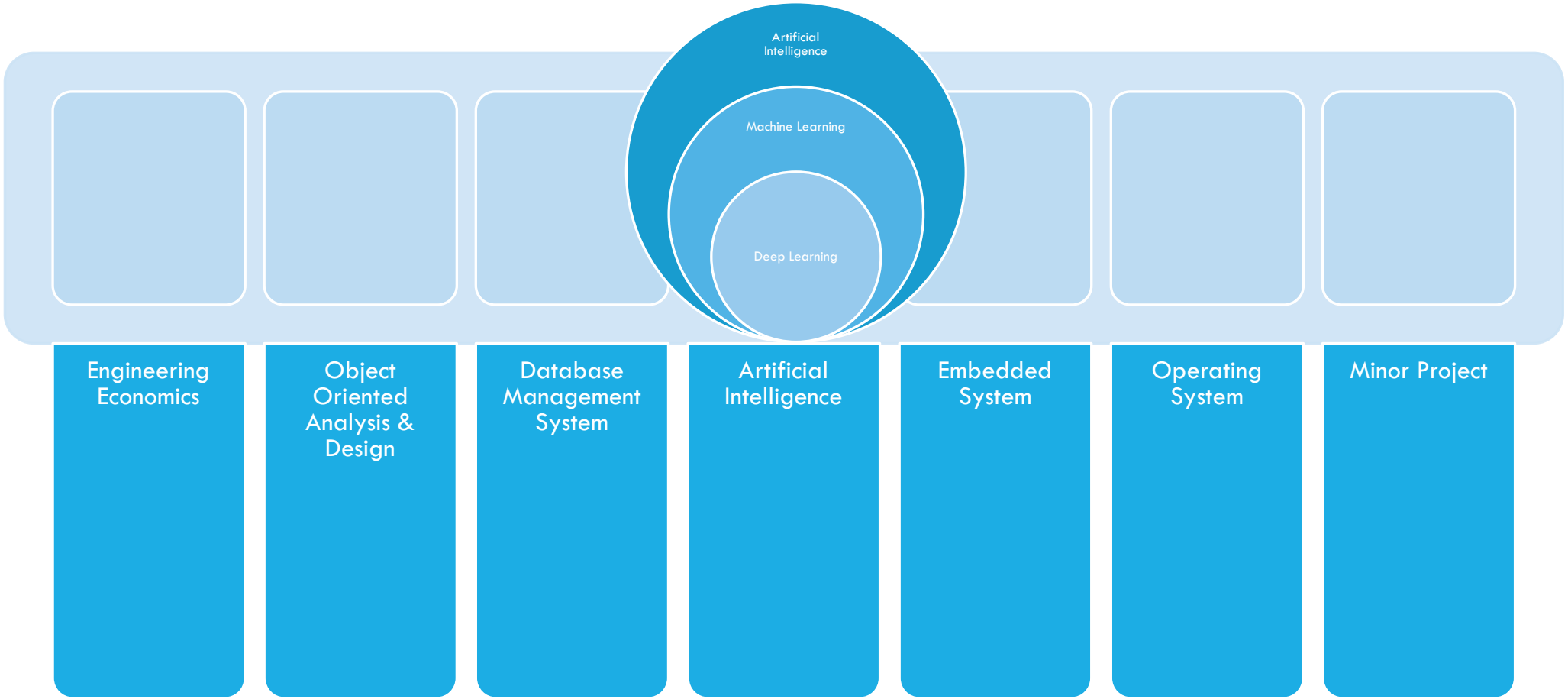
V SEMESTER (3RD YEAR/1ST PART)



V SEMESTER (3RD YEAR/1ST PART)

S.N.	Code	Course Title	Internal Marks		Final Marks	
			Th.	Pr.	Th.	Pr.
1	SH 601	Communication English	20	25	80	-
2	SH 602	Probability and Statistics	20	-	80	-
3	CT 601	Software Engineering	20	25	80	-
4	CT 602	Data Communication	20	25	80	-
5	CT 603	Computer Origanication & Architecture	20	25	80	-
6	EX 602	Instrumentation II	20	25	80	-
7	EX 603	Computer Graphics	20	50	80	-

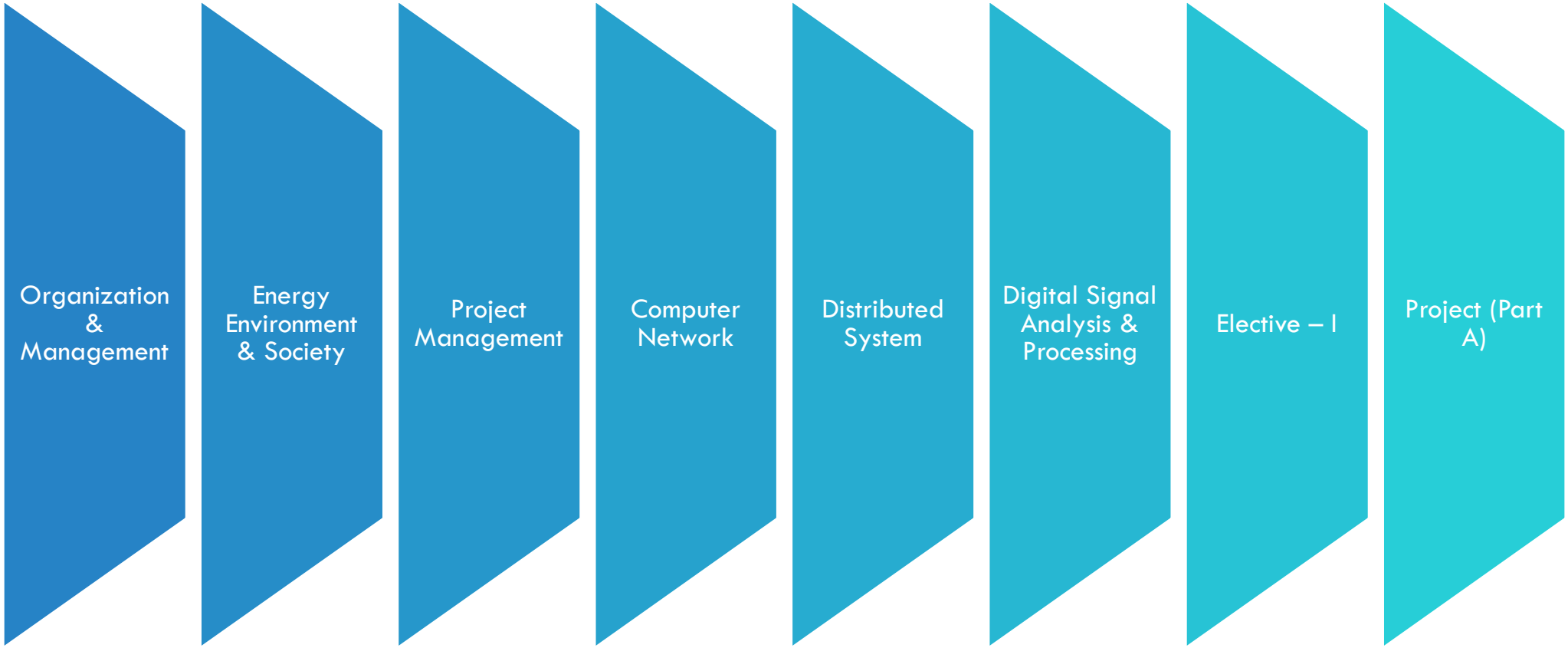
V SEMESTER (3RD YEAR/1ST PART)



VI SEMESTER (3RD YEAR/2ND PART)

S.N.	Code	Course Title	Internal Marks		Final Marks	
			Th.	Pr.	Th.	Pr.
1	CE 655	Engineering Economics	20	-	80	-
2	CT 651	Object Oriented Analysis & Design	20	25	80	-
3	CT 652	Database Management System	20	50	80	-
4	CT 653	Artificial Intelligence	20	25	80	-
5	CT 655	Embedded System	20	25	80	-
6	CT 656	Operating System	20	25	80	-
7	CT 654	Minor Project	-	50	-	25

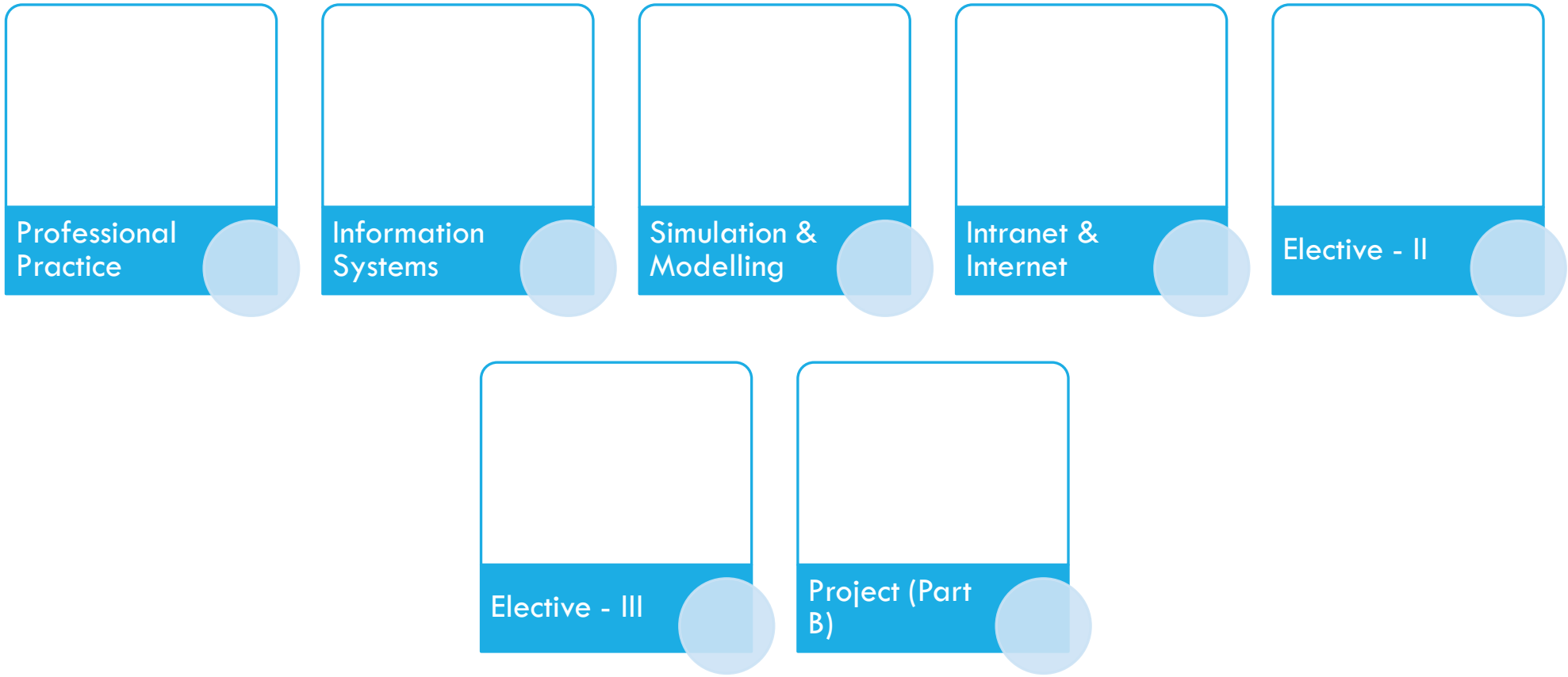
VII SEMESTER (4TH YEAR/1ST PART)



VII SEMESTER (4TH YEAR/1ST PART)

S.N.	Code	Course Title	Internal Marks		Final Marks	
			Th.	Pr.	Th.	Pr.
1	ME 708	Organization and Management	20	-	80	-
2	EX 701	Energy Enviroment and Society	10	-	40	-
3	CT 701	Project Management	20	-	80	-
4	CT 702	Computer Network	20	50	80	-
5	CT 703	Distributed System	20	25	80	-
6	CT 704	Digital Signal Analysis and Processing	20	25	80	-
7	CT 725	Elective I	20	25	80	-
8	CT 707	Project (Part A)	-	50	-	-

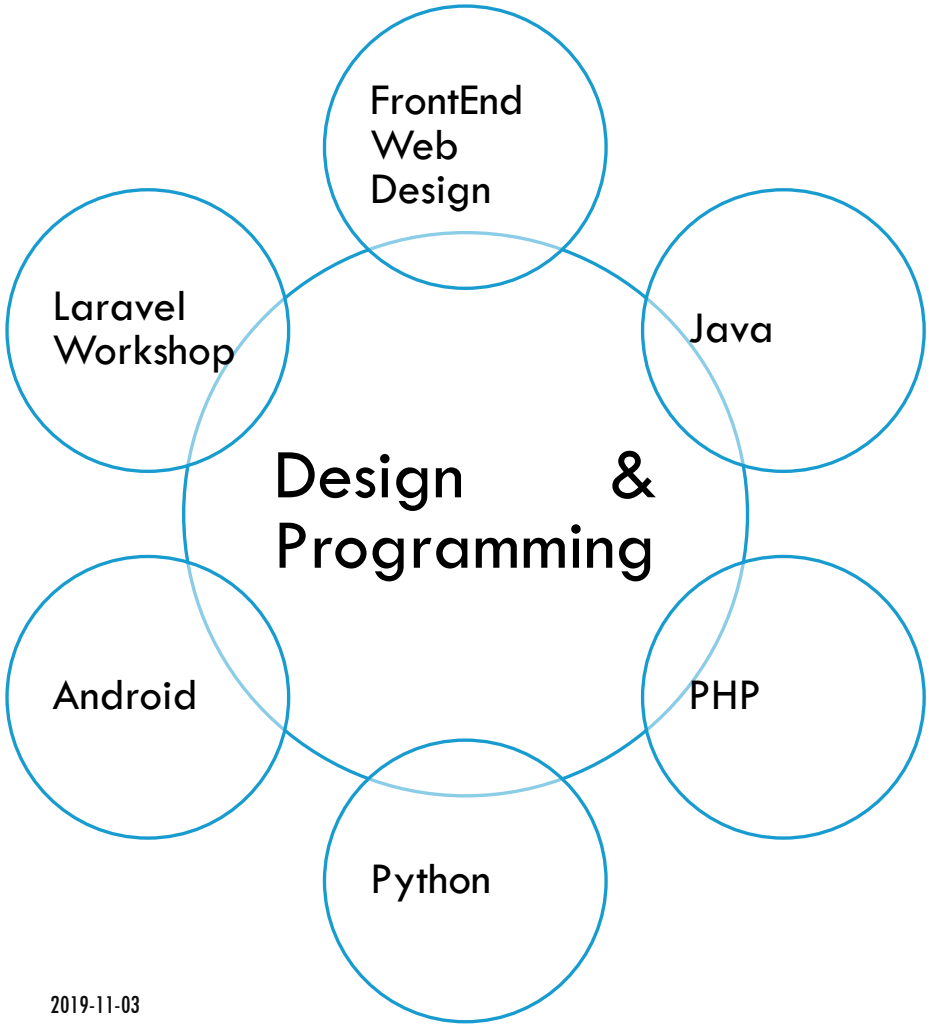
VIII SEMESTER (4TH YEAR/2ND PART)

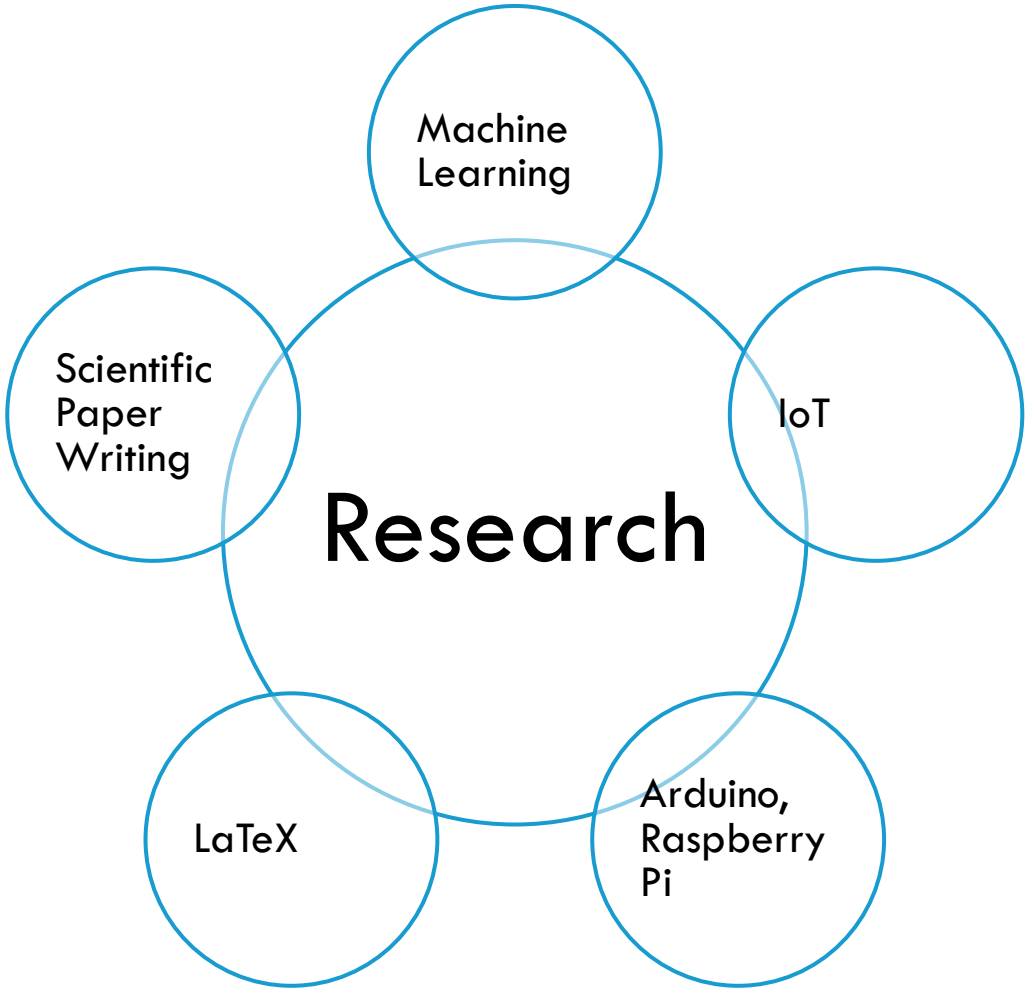


VIII SEMESTER (4TH YEAR/2ND PART)

S.N.	Code	Course Title	Internal Marks		Final Marks	
			Th.	Pr.	Th.	Pr.
1	CE 752	Professional Practice	10	-	40	-
2	CT 751	Information Systems	20	-	80	-
3	CT 753	Simulation and Modelling	20	25	80	-
4	CT 754	Internet and Intranet	20	25	80	-
5	CT 765	Elective II	20	25	80	-
5	CT 765	Elective III	20	25	80	-
6	CT 755	Project (Part B)	-	50	-	50

TRAINING | SEMINAR | WORKSHOP





DATA EXCHANGE

Introducing Third Variable

```
a = 5
b = 7
// Third Variable c
c = a
a = b
b = c
```

Without Introducing Third Variable

```
a = 5
b = 7
// No Third Variable
a = a + b
b = a – b
a = a - b
```

Q/A?

Thank You!

Er. Shiva K. Shrestha

computer.khwopa@gmail.com