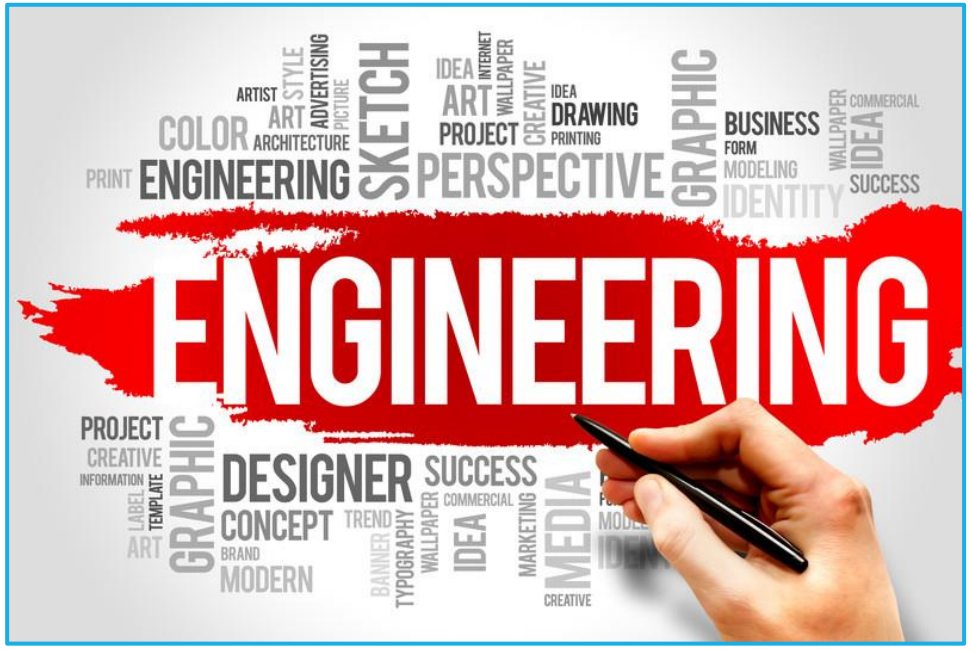
ELECTRICAL ENGINEERING

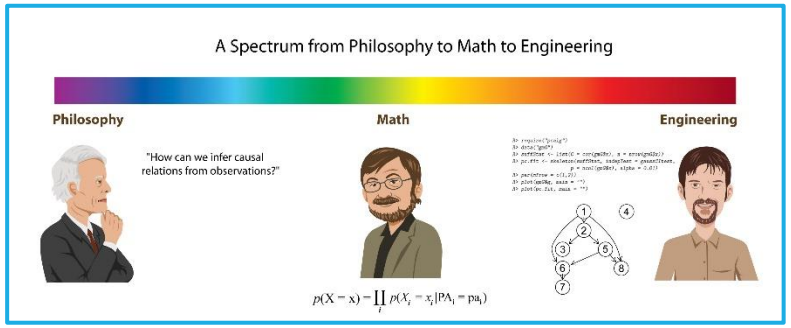
Er. Shiva K. Shrestha
Head, Computer Department
Khwopa College of Engineering

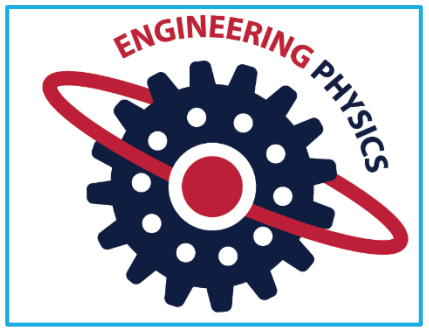
ENGINEERING

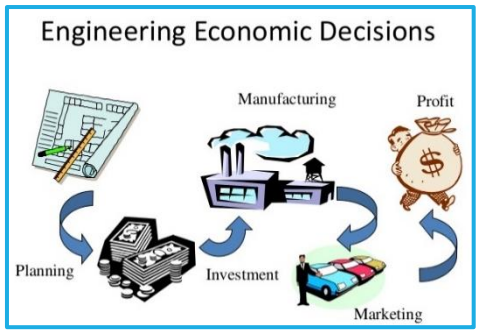


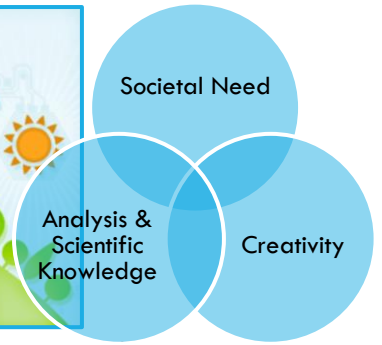
Engineering

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

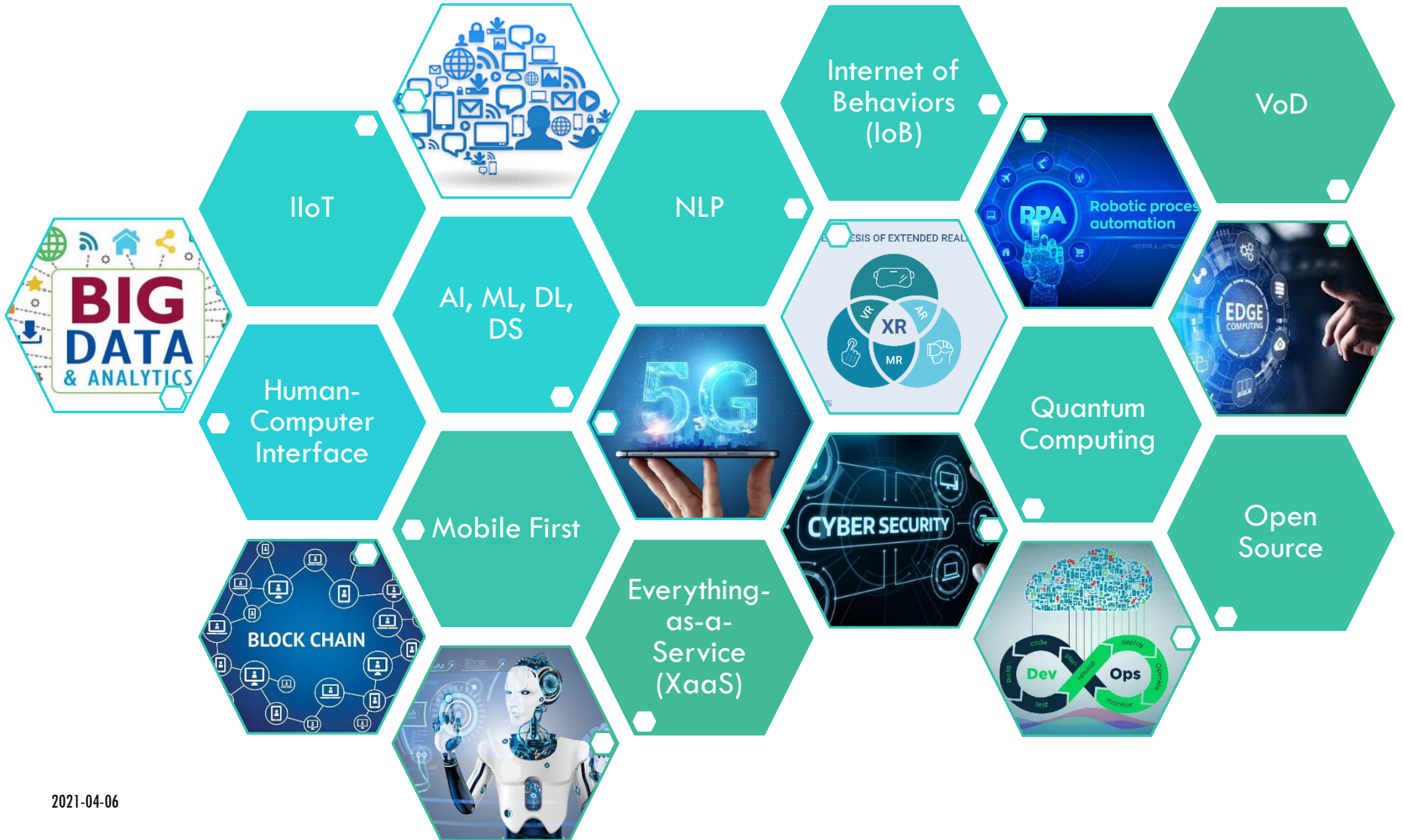








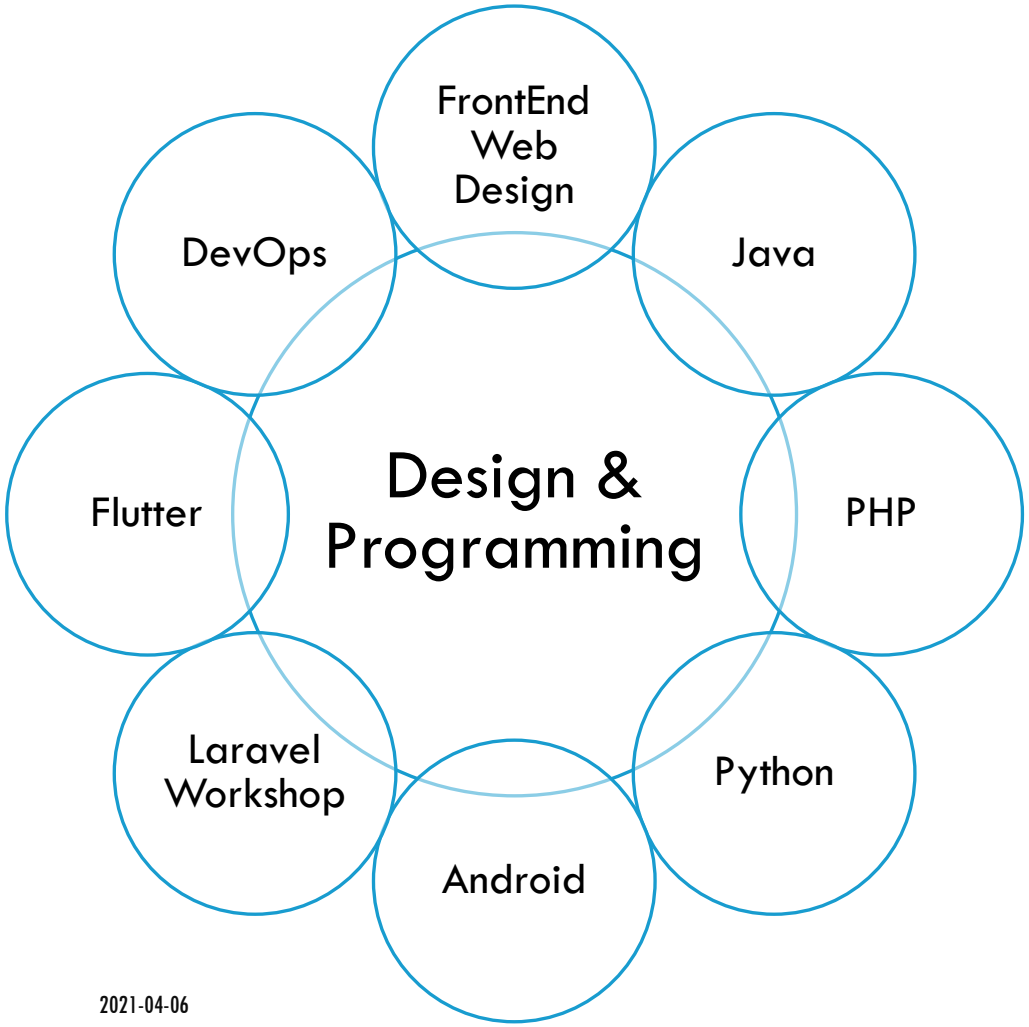
HOT TOPICS

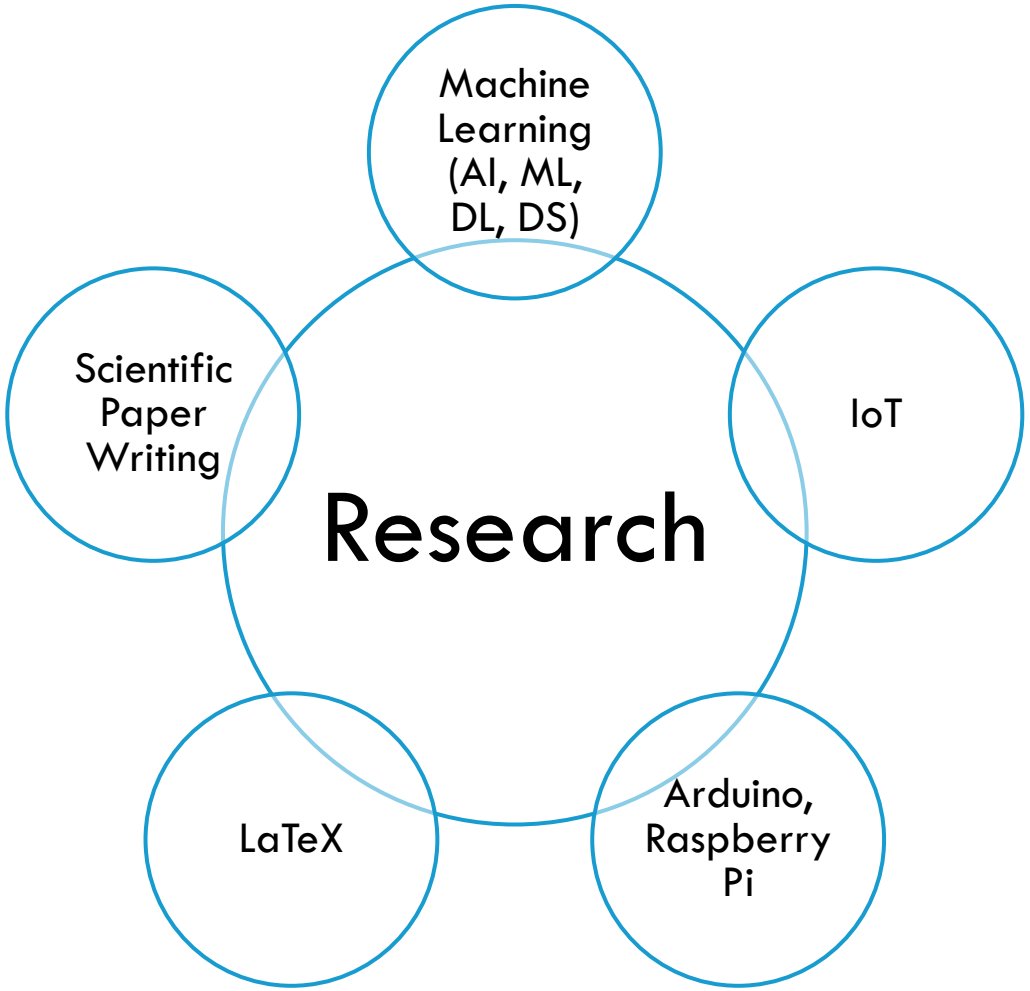

IIoT
AI, ML, DL, DS
Human-Computer Interface
Mobile First
Everything-as-a-Service (XaaS)
NLP
Internet of Behaviors (IoB)
VoD
Quantum Computing
Open Source
BIG DATA & ANALYTICS
RPA
Robotic proces automation
EDGE COMPUTING
XR
VR
AR
MR
5G
CYBER SECURITY
BLOCK CHAIN
Dev
Ops

CURRICULUM

1. Introduction
   - Duration: 4 Years
   - Parts: 8 Semesters
   - Working Days: Min 90 (15 Weeks)
   - Subjects: 52-55
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%

TRAINING/SEMINAR/WORKSHOP





राजनीति | नेपाली ब्रान्ड | समाज | विचार | किनमेल | कला | खेलकुद | घुमफिर | ब्लग | साहित्यपाटी | ग्लोबल

अटोमोवायल्स/यातायात | निर्माण सामग्री | बैंक/विमा/स्टक | फेसन/गरगहना | स्वास्थ्य | रोजगार | सूचना प्रविधि | घरायसी सामग्री | व्यवसाय | कृषि | अन्य

किनमेल अनुभव

‘रोबटबाट न्युरो सर्जरी’ गर्ने केएमसी अस्पतालको तयारी

सेतोपाटी संवाददाता
काठमाडौं, चैत २१

549 Shares

DATA EXCHANGE

Q. Exchange the value of a & b. Initial: a = 5, b = 7; Goal: a = 7, b = 5.

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
```

CRYPTO-ARITHMETIC PROBLEM SOLVING (CSP)

CSP Rules

- Each Letter/Symbol represents only one digit (0-9) throughout the problem.
- Numbers must not begin with zero i.e. 0567 (wrong), 567 (correct).
- After replacing letters by their digits, the resulting arithmetic operations must be correct.
- Aim is to find the value of each letter.

SOLUTIONS

```
long+live=nepal (9 variables)
7513+7294=14807
7213+7594=14807
7812+7495=15307
7412+7895=15307
7612+7485=15097
7412+7685=15097
CPU time = 10 msec

6 solution(s)
```

Tasks

- Q.1 Solve the following CSPs with necessary steps:
  - $NINA + SING = AGAIN$
  - SEND + MORE = MONEY

$$\begin{array}{cccccc} C_4 & C_3 & C_2 & C_1 & & \\ & N & I & N & A & \\ + & S & I & N & G & \\ \hline A & G & A & I & N & \end{array}$$

$$\begin{array}{cccccc} R_4 & R_3 & R_2 & R_1 & & \\ & S & E & N & D & \\ + & M & O & R & E & \\ \hline M & O & N & E & Y & \\ R_4 & R_3 & R_2 & R_1 & & \end{array}$$

Q/A?

Khwopa College of Engineering

Thank You!

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