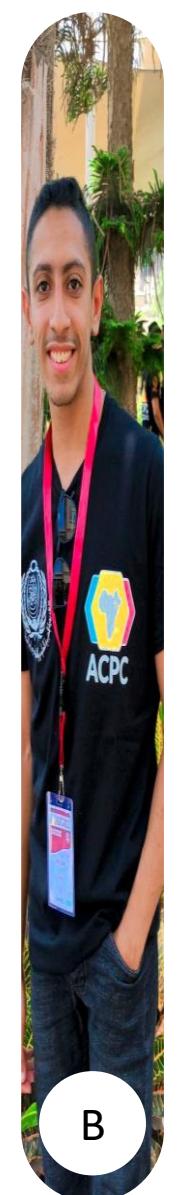




EELU

EELU Collage and
Computer Science
Rode Map





K

Y

A

B

M





K



A



B



M

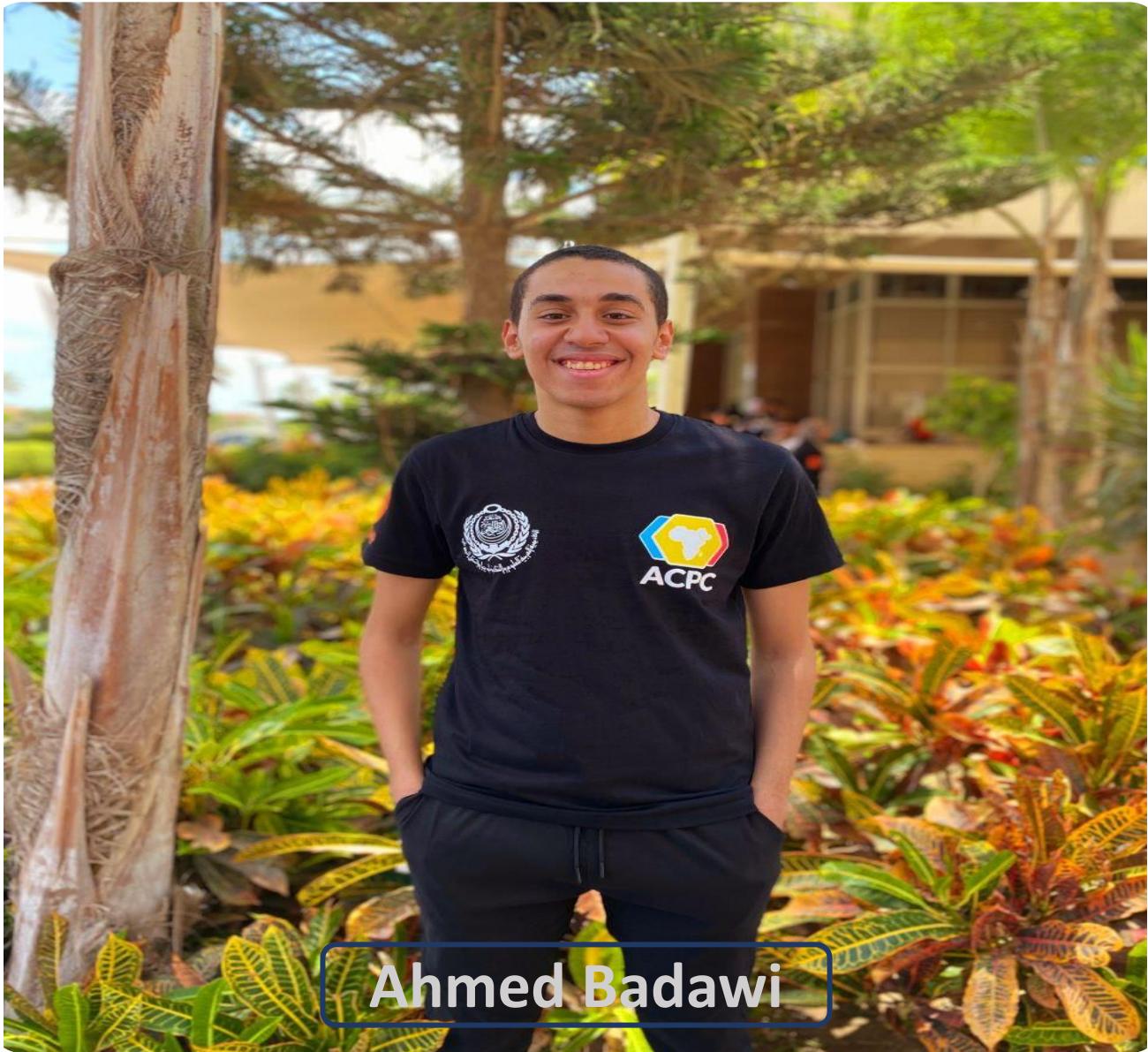




K



Y



Ahmed Badawi



B



M



K

Y

A

Bavly Ebraam

M



K



Y



A



B



Mostafa Hashem



**INTRO TO EELU
COLLAGE FOR
COMPUTER
SCIENCE
BY BAVLY**

About EELU Collage of Computer Science

- | | | | |
|----------|--|---------------------------------------|-----------|
| 1 | teaching assistants | Materials system | 6 |
| 2 | Their need teaching assistants | GPA system | 7 |
| 3 | privileges | Examination system | 8 |
| 4 | Adaptation in the subjects | The departments in the college | 9 |
| 5 | Is the college good and its labor market? | Internship from collage | 10 |

About EELU Collage of Computer Science

1

The college appoints
teaching assistants or not.

الكلية بتعين معيدين ولا.

2

Their need teaching assistants

3

privileges

4

Adaptation in the subjects

5

Is the college good and its labor market?

Materials system

6

GPA system

7

Examination system

8

The departments in the college

9

Internship from collage

10

About EELU Collage of Computer Science

1 teaching assistants

Materials system

6

2 Their need for repeaters is
little or a lot.

GPA system

7

احتياجهم للمعديين قليل ولا كثير.

Examination system

8

3 privileges

The departments in the college

9

4 Adaptation in the subjects

Internship from collage

10

5 Is the college good and its labor market?

About EELU Collage of Computer Science

1 teaching assistants

2 Their need teaching assistants

3 privileges are easy in college or not.

الامتيازات سهلة في الكلية ولا .

4 Adaptation in the subjects

5 Is the college good and its labor market?

Materials system

6

GPA system

7

Examination system

8

The departments in the college

9

Internship from collage

10

About EELU Collage of Computer Science

- 1** teaching assistants
- 2** Their need teaching assistants
- 3** privileges
- 4** Adaptation in the subjects according to my knowledge is easy or difficult.
التأقلم فـ المـ مواد بـ نسبة لـ علمـي عـلوم سـهل وـ لا صـعب
- 5** Is the college good and its labor market?
- 6** Materials system
- 7** GPA system
- 8** Examination system
- 9** The departments in the college
- 10** Internship from collage

About EELU Collage of Computer Science

1 teaching assistants

2 Their need teaching assistants

3 privileges

4 Adaptation in the subjects

5 Is the college good and its labor market good?

هل الكلية كويصة وسوق العمل بتاعها كويص ؟

Materials system

6

GPA system

7

Examination system

8

The departments in the college

9

Internship from collage

10

About EELU Collage of Computer Science

1 teaching assistants

2 Their need teaching assistants

3 privileges

4 Adaptation in the subjects

5 Is the college good and its labor market?

Materials system and a simple explanation about it.

6

نظام المواد وشرح بسيط عنها.

GPA system

7

Examination system

8

The departments in the college

9

Internship from collage

10

About EELU Collage of Computer Science

(First Year)

| First semester | | | | | | |
|----------------|---------------------------|--------------|---------------|--------------------|--------------|--|
| Course code | Course Name | Credit Hours | Lecture Hours | Exercise/Lab Hours | Prerequisite | |
| IT 111 | Electronics | 3 | 2.5 | 1.5 | - | |
| MA111 | Mathematics 1- | 3 | 2.5 | 1.5 | - | |
| HU111 | Technical Report Writing | 2 | 1.5 | - | - | |
| HU413 | Human Rights | 2 | 1.5 | - | - | |
| | | | | | | |
| MA112 | Discrete Math | 3 | 2.5 | 1.5 | - | |
| IT110 | Introduction to Computers | 3 | 2.5 | 1.5 | - | |
| | | 16 | | | | |

| Second semester | | | | | | |
|-----------------|----------------------------------|--------------|---------------|--------------------|---------------------------|--|
| Course code | Course Name | Credit Hours | Lecture Hours | Exercise/Lab Hours | Prerequisite | |
| ST121 | Probability and Statistics-1 | 3 | 2.5 | 1.5 | Mathematics-1 | |
| HU112 | Creative and Scientific Thinking | 2 | 1.5 | - | - | |
| MA113 | Mathematics-2 | 3 | 2.5 | 1.5 | Mathematics-1 | |
| HU101 | Micro Economics | 2 | 1.5 | - | | |
| IT113 | Logic Design | 3 | 2.5 | 1.5 | Electronics | |
| CS112 | Programming Language | 3 | 2.5 | 1.5 | Introduction to Computers | |
| | | 16 | | | | |

Materials system and a simple explanation about it.

نظام المواد وشرح بسيط عنها.

About EELU Collage of Computer Science

(Second year)

| First semester | | | | | |
|----------------|--------------------------------------|--------------|---------------|--------------------|------------------------------|
| Course code | Course Name | Credit Hours | Lecture Hours | Exercise/Lab Hours | Prerequisite |
| CS215 | Object Oriented Programming | 3 | 2.5 | 1.5 | Programming Language |
| DS211 | Introduction to Database systems | 3 | 2.5 | 1.5 | Programming Language |
| MA214 | Mathematics-3 | 3 | 2.5 | 1.5 | Mathematics-2 |
| IT231 | Computer Networks Technology | 3 | 2.5 | 1.5 | Introduction to Computers |
| ST222 | Probability and Statistics-2 | 3 | 2.5 | 1.5 | Probability and Statistics-1 |
| CS240 | Introduction to Software Engineering | 3 | 2.5 | 1.5 | Programming Language |
| | | 18 | | | |

| Second semester | | | | | |
|-----------------|------------------------------------|--------------|---------------|--------------------|--|
| Course code | Course Name | Credit Hours | Lecture Hours | Exercise/Lab Hours | Prerequisite |
| IT217 | Introduction to Operation Research | 3 | 2.5 | 1.5 | Programming Language, Probability and Statistics-1 |
| CS216 | Data Structure | 3 | 2.5 | 1.5 | Object Oriented Programming |
| IT221 | Computer Graphics | 3 | 2.5 | 1.5 | Object Oriented Programming |
| IT230 | Web Technology | 3 | 2.5 | 1.5 | Object Oriented Programming |
| IT212 | Digital Signal Processing | 3 | 2.5 | 1.5 | Mathematics-3 |

32

Materials system and a simple explanation about it.

6

نظام المواد وشرح بسيط عنها.

| | | | | | |
|-------|-----------------------------|----|-----|-----|------------------------------|
| LB211 | Networking Fundamentals lab | 2 | 1.5 | 1.5 | Computer Networks Technology |
| | | 17 | | | |

About EELU Collage of Computer Science

(Third year)

| First semester | | | | | |
|----------------|-----------------------------------|--------------|---------------|--------------------|---|
| Course code | Course Name | Credit Hours | Lecture Hours | Exercise/Lab Hours | Prerequisite |
| LB312 | Network Routing and Switching-Lab | 2 | 1.5 | 1.5 | Networking Fundamentals lab |
| AI 311 | Artificial intelligence | 3 | 2.5 | 1.5 | Data Structure |
| CS319 | Operating Systems | 3 | 2.5 | 1.5 | Data Structure |
| AI321 | Machine Learning Fundamentals | 3 | 2.5 | 1.5 | Probability and Statistics-2, Mathematics-3 |
| CS318 | Computer Organization | 3 | 2.5 | 1.5 | Logic Design, Data Structure |
| CS341 | Algorithms analysis and Design | 3 | 2.5 | 1.5 | Data Structure |
| | | 17 | | | |

| Second semester | | | | | |
|-----------------|--|--------------|---------------|--------------------|---|
| Course code | Course Name | Credit Hours | Lecture Hours | Exercise/Lab Hours | Prerequisite |
| IT322 | Pattern Recognition | 3 | 2.5 | 1.5 | Digital Signal Processing, Probability and Statistics-2 |
| IT333 | Information Computer Networks Security | 3 | 2.5 | 1.5 | Computer Networks Technology |
| IT428 | Image processing | | | | |
| AI448 | Natural Language Processing | 3 | 2.5 | 1.5 | Based on selected course |
| AI435 | Semantic web and Ontology | | | | |
| CS344 | Advanced Software Engineering | 3 | 2.5 | 1.5 | Introduction to Software Engineering |
| IT343 | Micro controller | 3 | 2.5 | 1.5 | Computer Networks Technology |
| LB313 | Ethical Hacking-lab | 2 | 1.5 | 1.5 | Computer Networks Technology |
| | | 17 | | | |

Materials system and a simple explanation about it.

نظام المواد وشرح بسيط عنها.

6

About EELU Collage of Computer Science

(Fourth year)

First semester

| Course code | Course Name | Credit Hours | Lecture Hours | Exercise/Lab Hours | Prerequisite |
|-------------|---------------------------------------|--------------|---------------|--------------------|---|
| LB421 | Selected labs in Software Engineering | 2 | 1.5 | 1.5 | Algorithms analysis and Design, Advanced Software Engineering |
| IT423 | Embedded Systems | 3 | 2.5 | 1.5 | Micro controller |
| HU427 | Entrepreneurship | 2 | 1.5 | - | - |
| IT434 | Advanced Computer Networks | 3 | 2.5 | 1.5 | Computer Networks Technology |
| PC401 | Project (1) | 3 | 2.5 | 2 | |
| IT425 | Machine Vision | | | | |
| CS446 | Software Design and architecture | 3 | 2.5 | 1.5 | Based on selected course |
| IT436 | Cloud Computing Networking | | | | |
| | | 16 | | | |

Second semester

| Course code | Course Name | Credit Hours | Lecture Hours | Exercise/Lab Hours | Prerequisite |
|-------------|---|--------------|---------------|--------------------|--------------------------|
| IT426 | Virtual Reality | | | | |
| CS447 | Selected topics in software engineering | 3 | 2.5 | 1.5 | Based on selected course |
| IT437 | Selected topics in Computer networks | | | | |
| IT427 | Selected Topics in embedded systems | | | | |
| CS445 | Software Testing and QA | 3 | 2.5 | 1.5 | Based on selected course |
| IT438 | Communication Technology | | | | |
| IT424 | Multimedia Mining | | | | |
| CS449 | Software Security | 3 | 2.5 | 1.5 | Based on selected course |
| IT439 | Wireless and Mobile Networks | | | | |
| HU 402 | Fundamental of Management | 2 | 1.5 | - | - |
| PC402 | Project (2) | 3 | 1 | 4 | Project(1) |
| LB431 | Selected labs in AI | 2 | 1.5 | 1.5 | Artificial Intelligence |
| | | 16 | | | |

Materials system and a simple explanation about it.

نظام المواد وشرح بسيط عنها.

6

About EELU Collage of Computer Science

1 teaching assistants

2 Their need teaching assistants

3 privileges

4 Adaptation in the subjects

5 Is the college good and its labor market?

Materials system 6

How can the GPA system
be.

7

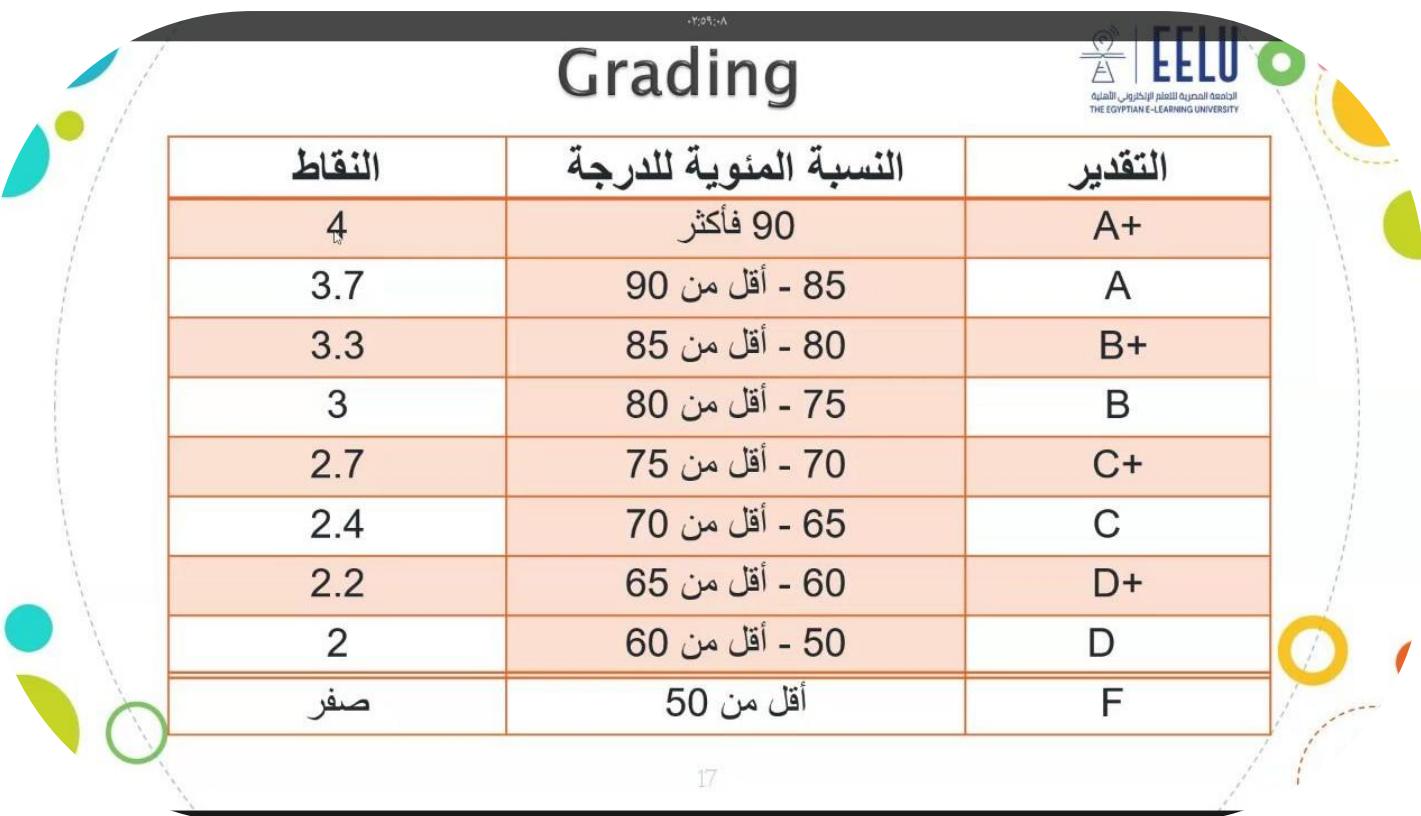
ب يكون ازاي نظام الساعات المعتمدة.

Examination system 8

The departments in the college 9

Internship from collage 10

About EELU Collage of Computer Science



| النقط | النسبة المئوية للدرجة | التقدير |
|-------|-----------------------|---------|
| 4 | 90 فأكثر | A+ |
| 3.7 | 90 - أقل من 85 | A |
| 3.3 | 85 - أقل من 80 | B+ |
| 3 | 80 - أقل من 75 | B |
| 2.7 | 75 - أقل من 70 | C+ |
| 2.4 | 70 - أقل من 65 | C |
| 2.2 | 65 - أقل من 60 | D+ |
| 2 | 60 - أقل من 50 | D |
| صفر | أقل من 50 | F |

17

How can the GPA system
be.

ب يكون ازاي نظام الساعات المعتمدة.

7

About EELU Collage of Computer Science

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GPA system 7

Examination system

نظام الامتحانات.

8

The departments in the college 9

Internship from collage 10

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GPA system 7

Examination system 8

The departments in the college, and can I study a section with myself outside the department that I am in in the college?

الاقسام اللي ف الكلية و هل اقدر اذاكر قسم مع نفسي
بره القسم اللي انا فيه ف الكلية.

9

Internship from collage 10

About EELU Collage of Computer Science

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GPA system 7

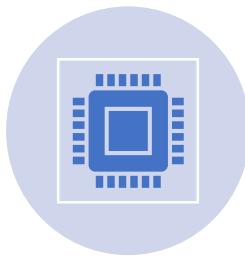
Examination system 8

The departments in the college 9

Does the university offer us training and so on, whether in companies or banks, meaning internship, and so on?

هل الجامعه بتنزلنا تدريبات وكمه سواء في شركات او بنوك يعني وكمه ولا.

10



**WHAT IS
COMPUTER
SCIENCE FIELDS**

**BY MOSTAFA
, BADAWI**

Programming language



Information Technology

Artificial intelligence



Database systems



Cyber security



Cloud computing



Computer networks



Robotics



Data Science



Mobile development



Web development



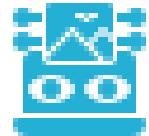
Computer Science



Game development

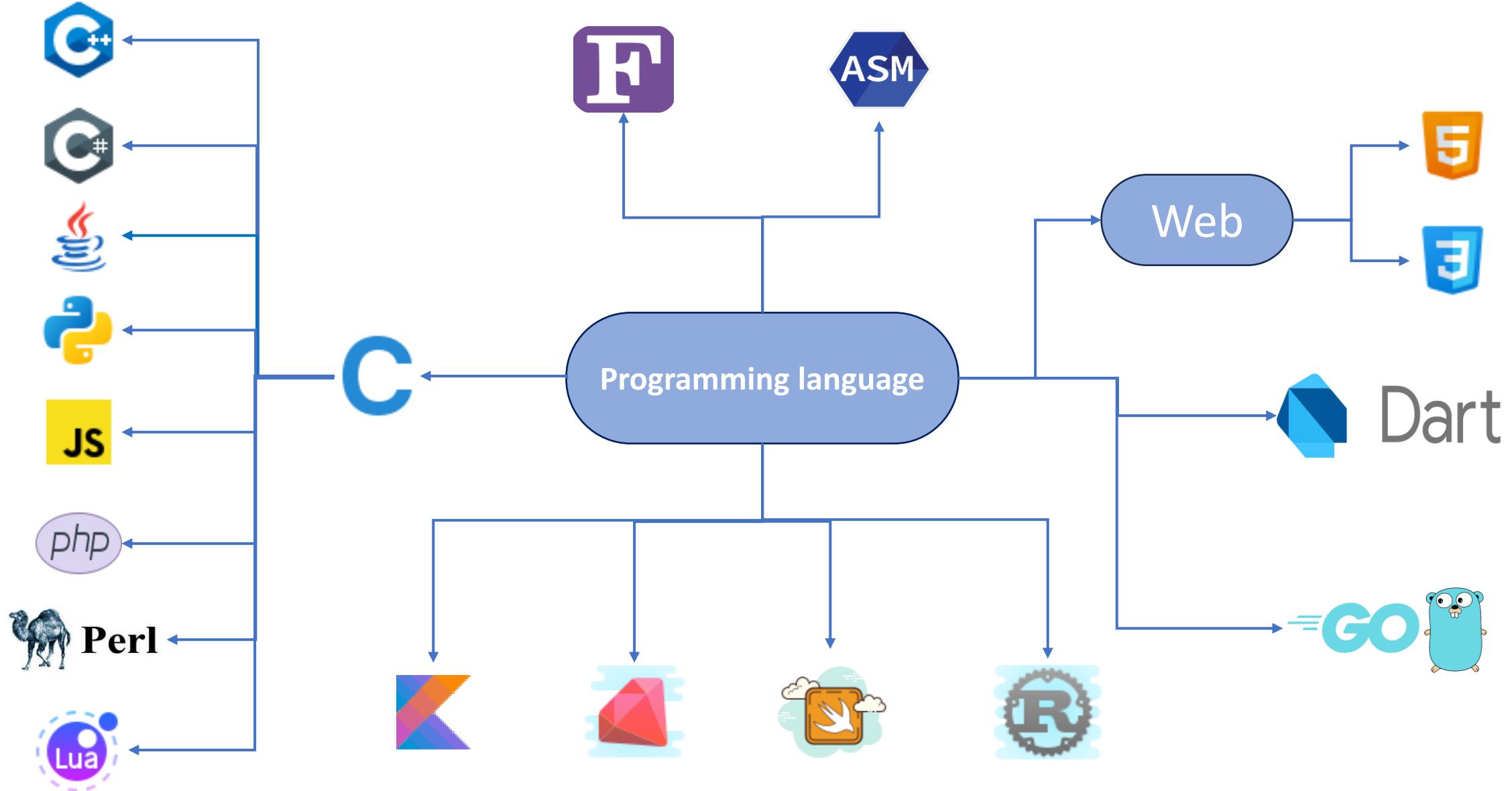


Computer vision



Machine learning





Programming language



Information Technology

Artificial intelligence



Database systems



Cyber security



Cloud computing



Computer networks



Robotics



Data Science



Mobile development



Web development



Computer Science



Game development



Computer vision



Machine learning

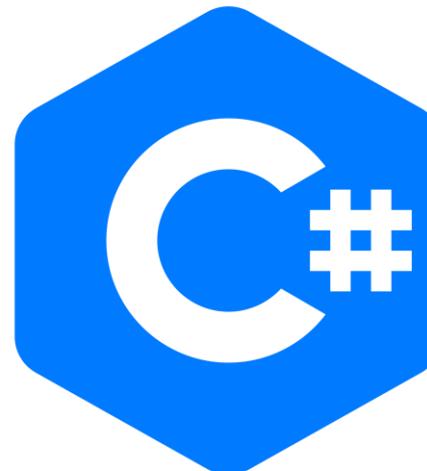
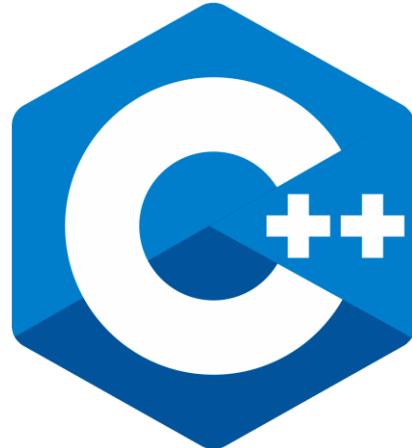
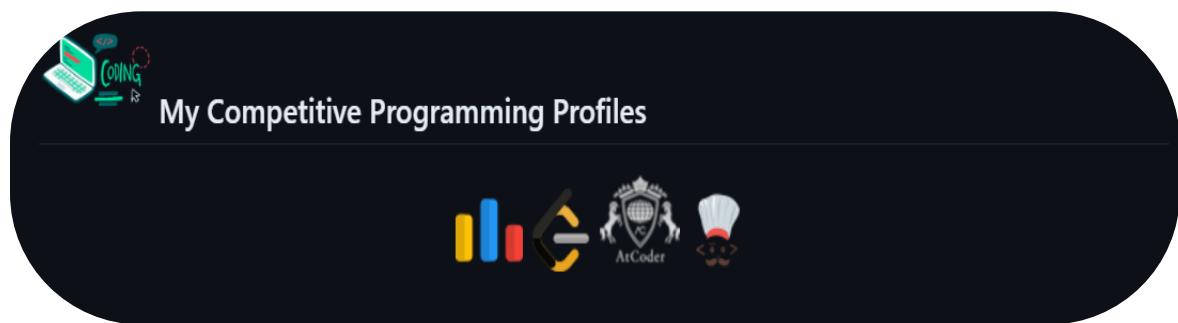


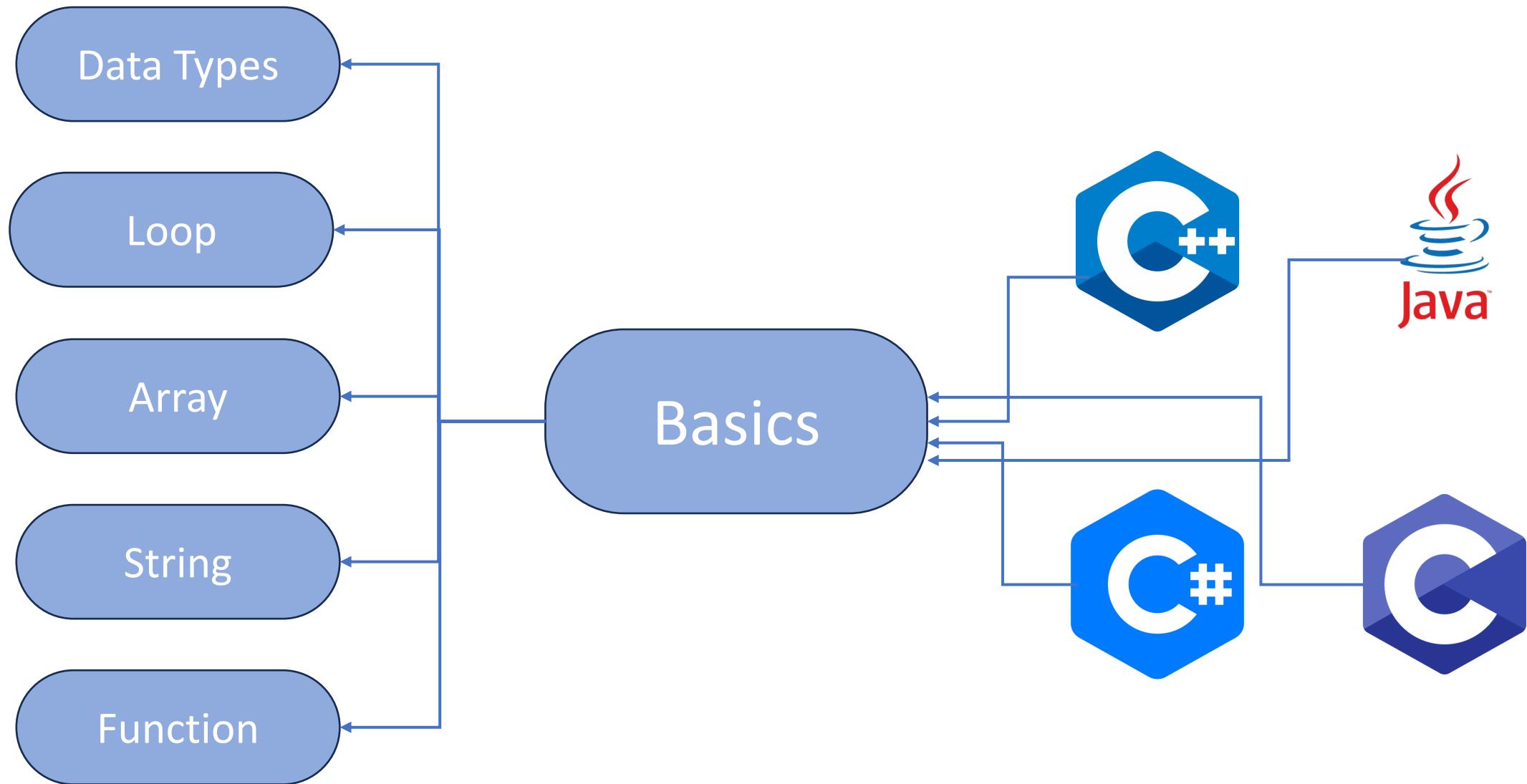


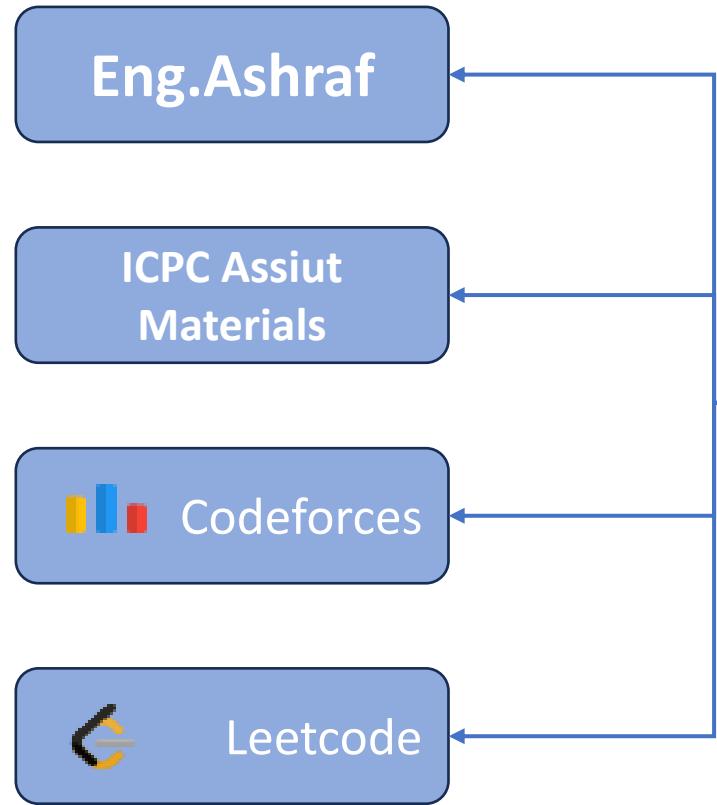
**THE RIGHT ROAD
MAP FOR
LEARNING
PROGRAMMING
BY BADAWI**



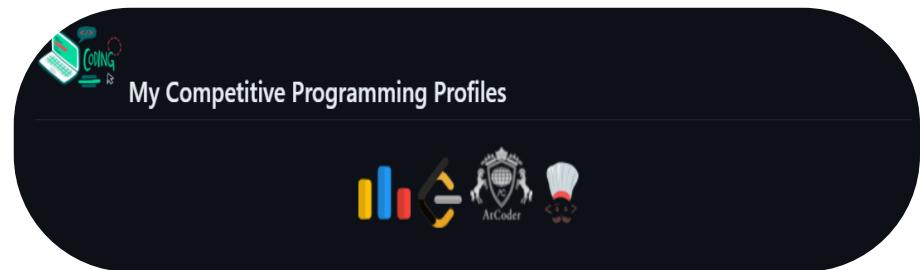
Basics And Problem Solving



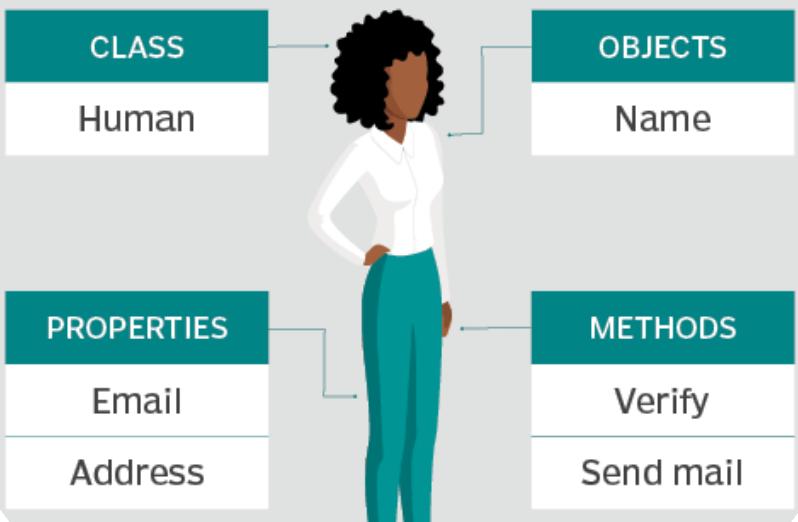




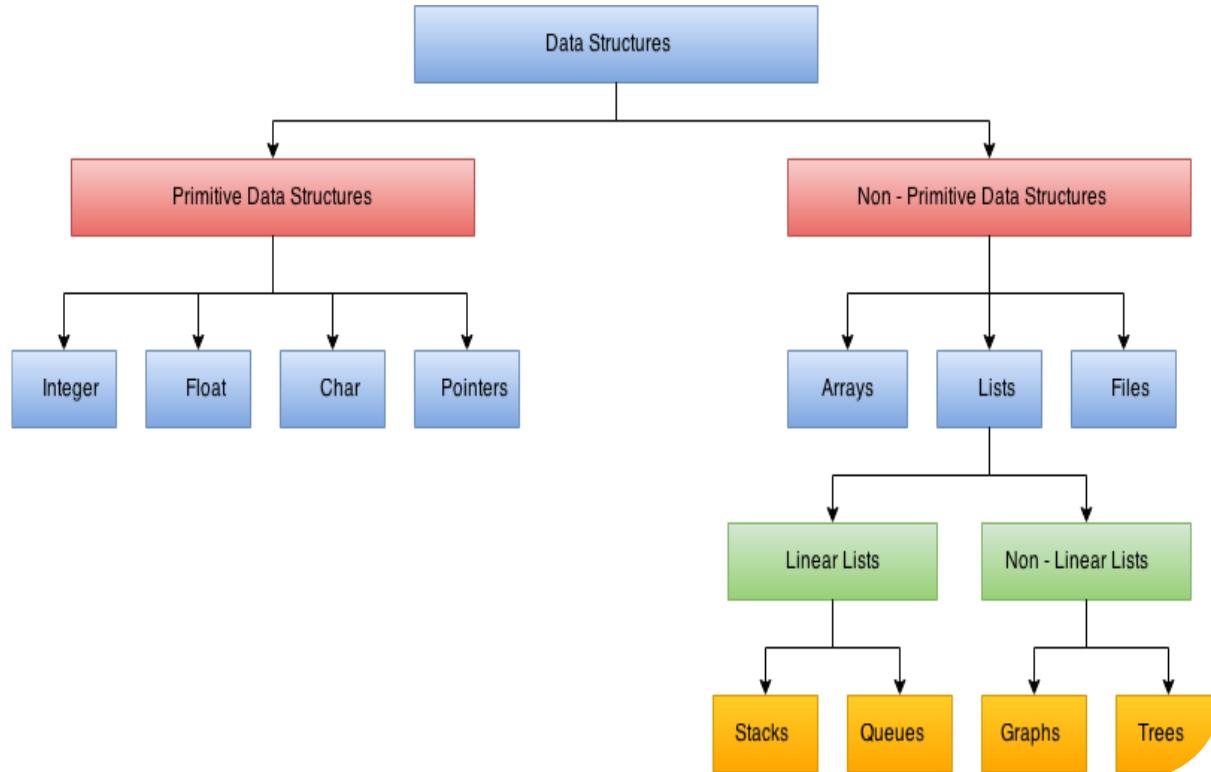
Problem Solving



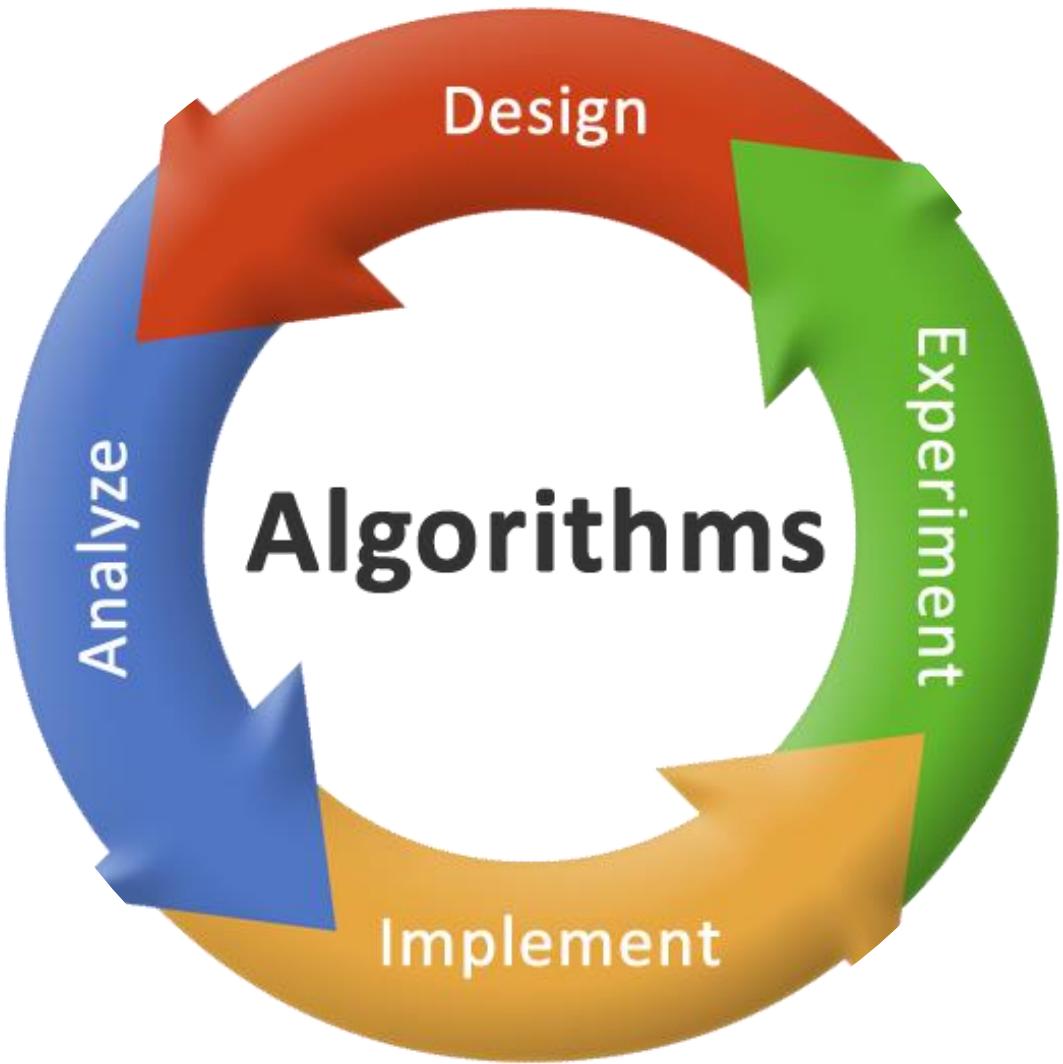
Object-oriented programming



Object Oriented Programming



Data Structures



Algorithms

Important videos to watch

DR.Mostafa Saad Rode map

Eng.Mohammed Mosreif Rode map



**HOW TO BE VERY
GOOD IN COMPUTER
SCIENCE FIELD**

Arabic channels of Programming courses

Arabic Competitive Programming

92.8 ألف مشترك 447 فيديو @ArabicCompetitiveProgramming

↳ This is Mostafa Saad Ibrahim Youtube Channel.

facebook.com/csgetskilled



محمد الدسوقي

449 ألف مشترك 337 فيديو @DesoukiEgypt

تعلم علوم الحاسوب باللغة العربية - لغات البرمجة و أوراكل - و أدرس مقررات قواعد البيانات الجامعية.

↳ [روابط إضافية 3](https://youtube.com/watch?v=Fr6wJ5_Hok0&list=PL1DUmTEdeA6IUD9...)



Mohamed Moshrif

23.9 ألف مشترك 111 فيديو @mmeshref

↳ Everything on this channel is a representation of my own, and only my own...



Adel Nasim

217 ألف مشترك 150 فيديو @AdelNasim

تم إنشاء القناة لزيادة الوعي البرمجي لدى المشاهد العربي بتعلم لغات البرمجة المطلوبة بأسلوب سلس وشامل.

adelnasim.com



Programming Advices

381 ألف مشترك 164 فيديو @ProgrammingAdvices

↳ Welcome to our YouTube channel, where we bring you over 27 years of pro...

↳ [روابط إضافية 4](https://programmingadvices.com/p/roadmap)



Elzero Web School

2.7 مليون مشترك 1.25 ألف من الفيديوهات @ElzeroWebSchool

↳ Life Is Short, Start Learning

↳ [روابط إضافية 4](https://elzero.org)



English channels for Programming courses

- **freeCodeCamp.org**

8.2 مليون مشترك 1.4 ألف من الفيديوهات
@freecodecamp

Learn to code for free.

donate.freecodecamp.org/?r=y



- **Bro Code**

1.17 مليون مشترك 601 ألف من الفيديوهات
@BroCodez

Coding bootcamps hate him!

twitch.tv/chocobro



- **Neso Academy**

2.5 مليون مشترك 2.19 ألف من الفيديوهات
@nesoacademy

REDEFINING EDUCATION

play.google.com/store/apps/details?id=org.nesoacademy و 3 روابط إضافية



Another channels for Programming courses

• Fireship

2.37 مليون مشترك 579 فيديو

◁ High-intensity ⚡ code tutorials and tech news to help you ship your app f...

روابط إضافية fireship.io



Errichto Algorithms

292 ألف مشترك 139 فيديو

◁ Algorithms, competitive programming, coding interviews. I make educatio...

روابط إضافية discord.gg/YWb3Bmg



Mr Algorithms

7.76 ألف مشتركاً 186 فيديو

◁ This channel was created to help computer science students to understand...

ورابط واحد إضافي tiktok.com/@mralgorithms?lang=en



Channels for study materials of EELU

د. ابراهيم عماره

1.94 ألف مشتركاً @Dr.Ibrahim-Omara

نقدم الفيديوهات بذات الله تعالى مراجعه و شرح لبعض المواد التي تخدم مرحلة البكالوريوس في تخصص الحاسوب... <

روابط إضافية facebook.com/ibrahim.omara.3



Dr. Ahmed Hagag

39.6 ألف مشترك 217 فيديو @dr.ahmedhagag

نقدم الفيديوهات بذات الله تعالى مراجعه و شرح لبعض المواد التي تخدم طلاب مرحلة البكالوريوس في تخصص الحاسوب والمعلو... <

روابط إضافية facebook.com/ahmed.hagag.71



Important links for CS

- انهاء التشتت والوهم في مجال تعلم البرمجة
- Computer Basics Course
- C++ By Adel Nasim

Important links for CS

- [open-source-cs on github](#)
- [Roadmap](#)
- [Git & Github from Gharib el sheikh](#)
- [LinkedIn from Gharib el sheikh](#)



Ahmed Badawi



Kyrillos Ayman



Bavly Ebraam



Yoanas Nageh



Mostafa Hashem



Thank you