



EELU

EELU Collage and
Computer Science
Rode Map

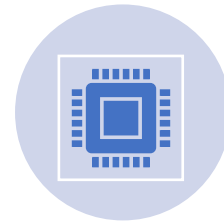
Welcome EELU Level 1



**INTRO TO EELU
COLLAGE FOR
COMPUTER SCIENCE**



**THE RIGHT ROAD
MAP FOR LEARNING
PROGRAMMING**



**What is computer
science fields.**



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



K



Y



A



B



M



Kyrillos Ayman



Y



A



B



M



K



Yoanas Nageh



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 ENG.BAVLY**

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**

GPA system **7**

Examination system **8**

The departments in the college **9**

Internship from collage **10**

About EELU Collage of Computer Science

1

The college appoints teaching assistants or not.

الكلية بتعين معيدين ولا.

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Their need teaching assistants

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privileges

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Their need for repeaters is little or a lot.

احتياجهم للمعيدين قليل ولا كثير.

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privileges are easy in college or not.

الامتيازات سهلة ف الكلية ولا .

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Adaptation in the subjects according to my knowledge is easy or difficult.

التأقلم ف المواد بنسبة لعلمي علوم سهل ولا
صعب

5 Is the college good and its labor market?

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Is the college good and its labor market good?

هل الكلية كويسة وسوق العمل بتاعها كويس ؟

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Materials system and a simple explanation about it.

نظام المواد وشرح بسيط عنها.

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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.

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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 Programing	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 Programing
IT221	Computer Graphics	3	2.5	1.5	Object Oriented Programing
IT230	Web Technology	3	2.5	1.5	Object Oriented Programing
IT212	Digital Signal Processing	3	2.5	1.5	Mathematics-3

32

LB211	Networking Fundamentals lab	2	1.5	1.5	Computer Networks Technology
		17			

Materials system and a simple explanation about it.

نظام المواد وشرح بسيط عنها.

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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	3	2.5	1.5	Based on selected course
AI448	Natural Language Processing				
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.

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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	3	2.5	1.5	Based on selected course
CS446	Software Design and architecture				
IT436	Cloud Computing Networking				
		16			

Second semester

Course code	Course Name	Credit Hours	Lecture Hours	Exercise/Lab Hours	Prerequisite
IT426	Virtual Reality	3	2.5	1.5	Based on selected course
CS447	Selected topics in software engineering				
IT437	Selected topics in Computer networks				
IT427	Selected Topics in embedded systems	3	2.5	1.5	Based on selected course
CS445	Software Testing and QA				
IT438	Communication Technology				
IT424	Multimedia Mining	3	2.5	1.5	Based on selected course
CS449	Software Security				
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.

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How can the GPA system
be.

بيكون ازاي نظام الساعات المعتمدة.

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Examination system **8**

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Internship from collage **10**

About EELU Collage of Computer Science

Grading



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

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How can the GPA system be.

بيكون ازاي نظام الساعات المعتمدة.

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نظام الامتحانات.

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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 وهل اقدر اذاكر قسم مع نفسي
بره القسم اللي انا فيه ف الكلية.

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Internship from collage 10

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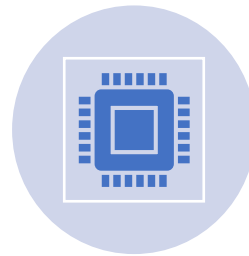
Examination system **8**

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?

10

هل الجامعة بتنزلنا تدريبات وكده سواء في شركات او بنوك يعني وكده ولا.



**WHAT IS
COMPUTER
SCIENCE FIELDS
BY ENG.MOSTAFA
, BADAWI**

Programming
language



Information
Technology

Robotics



Data Science



Mobile
development



Artificial
intelligence



Database systems



Cyber security



Cloud computing



Computer
networks



Software
engineering



Computer Science



Web development



Game
development

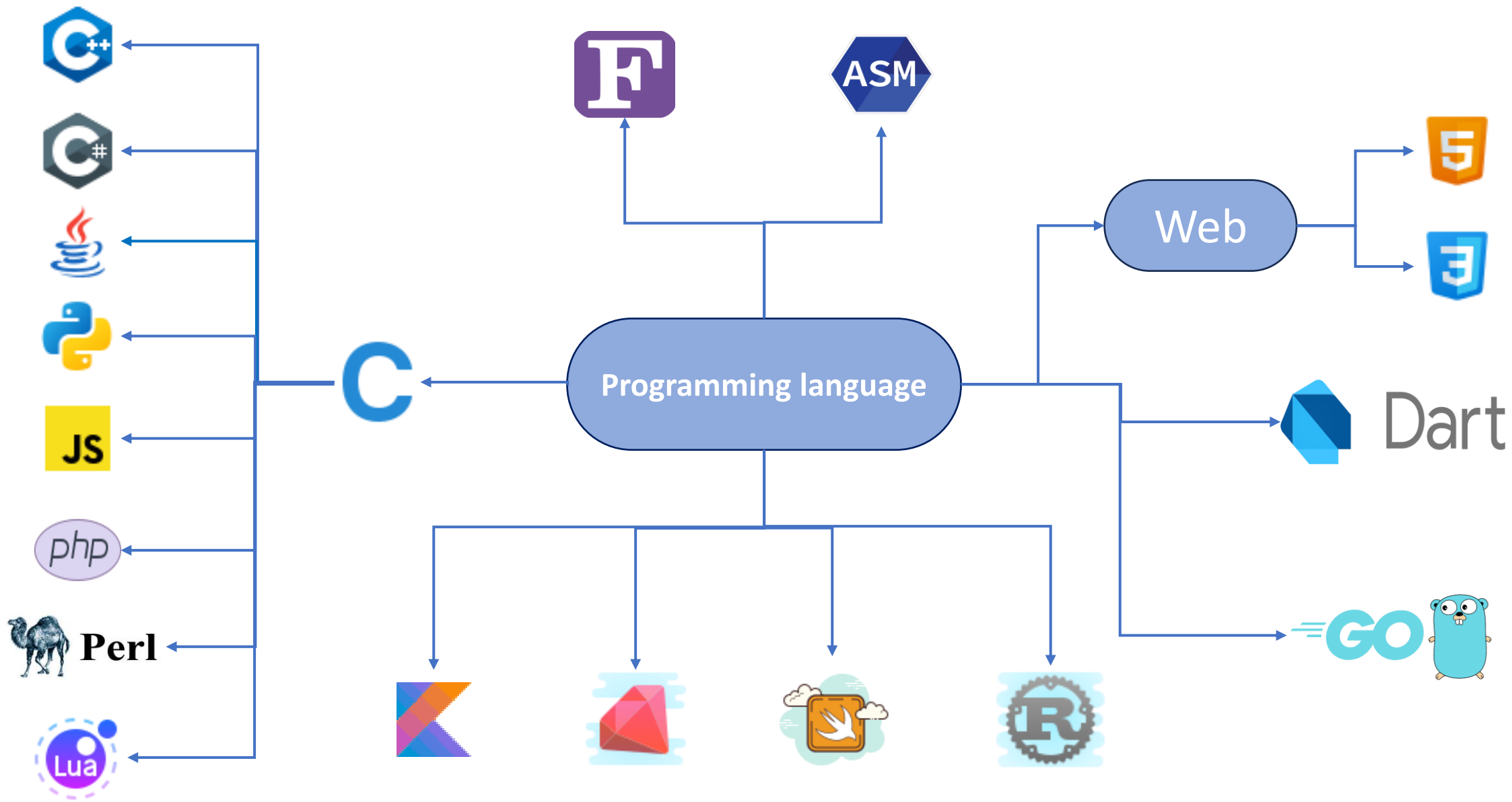


Computer vision



Machine learning





Programming
language



Information
Technology

Robotics



Data Science



Mobile
development



Artificial
intelligence



Database systems



Cyber security



Cloud computing



Computer
networks



Software
engineering



Computer Science



Web development



Game
development



Computer vision



Machine learning





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

CS Rode map

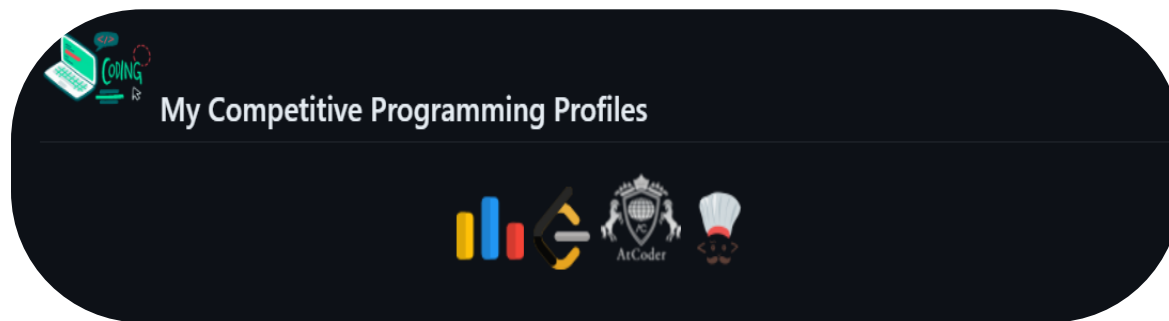
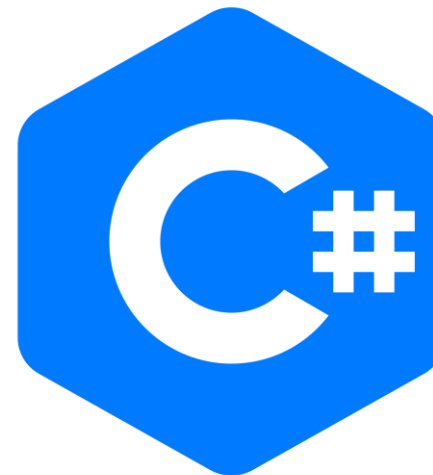
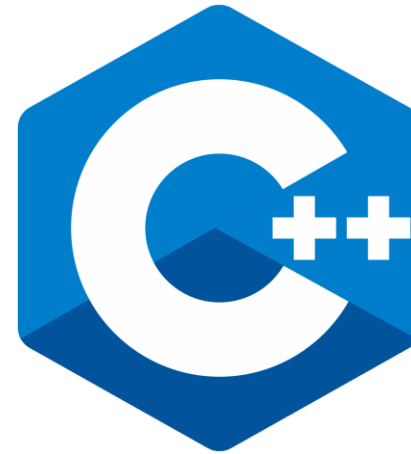
1 – Basics And Problem Solving

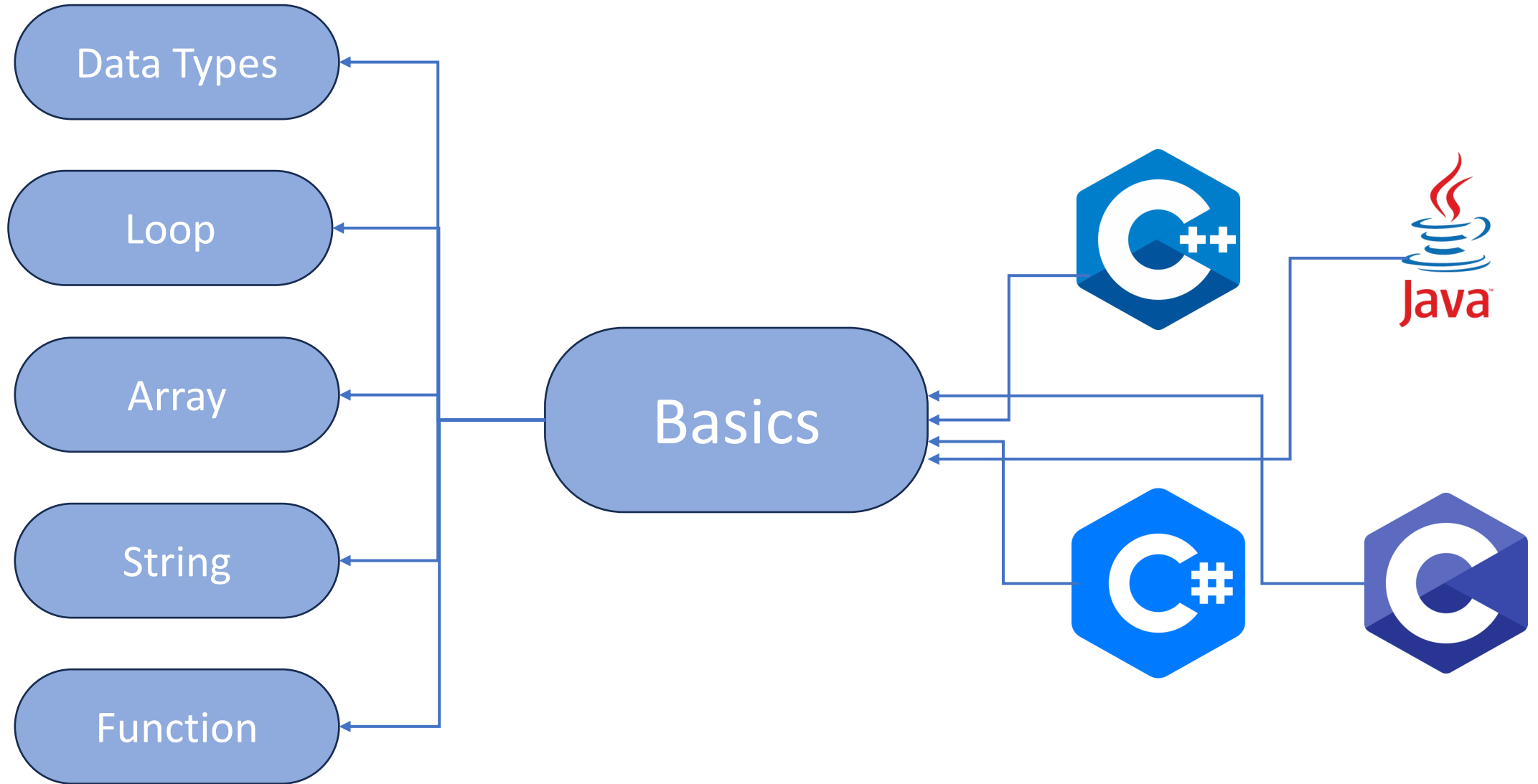
2 – Object Oriented Programming

3 – Data Structures

4 – Algorithms


Basics And Problem Solving








Eng.Ashraf

ICPC Assiut
Materials





 Codeforces

 Leetcode

Problem Solving

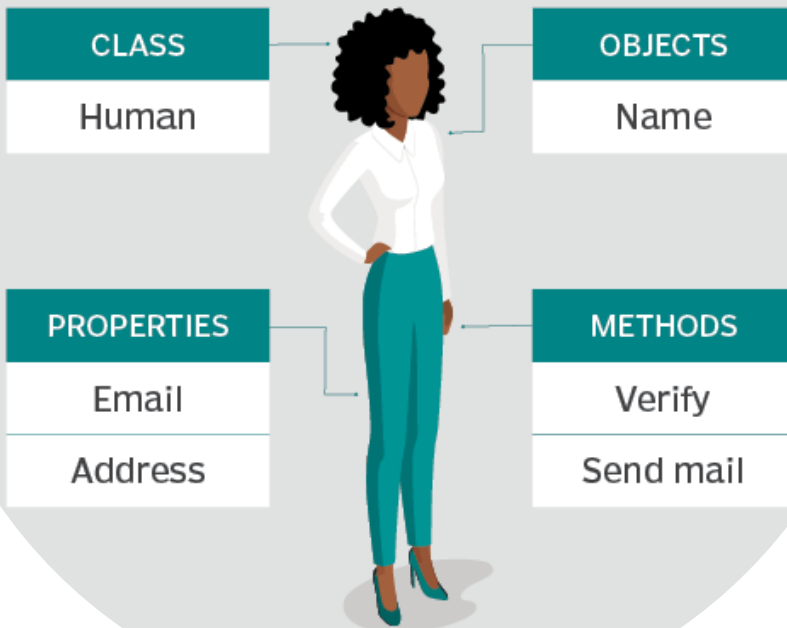


My Competitive Programming Profiles

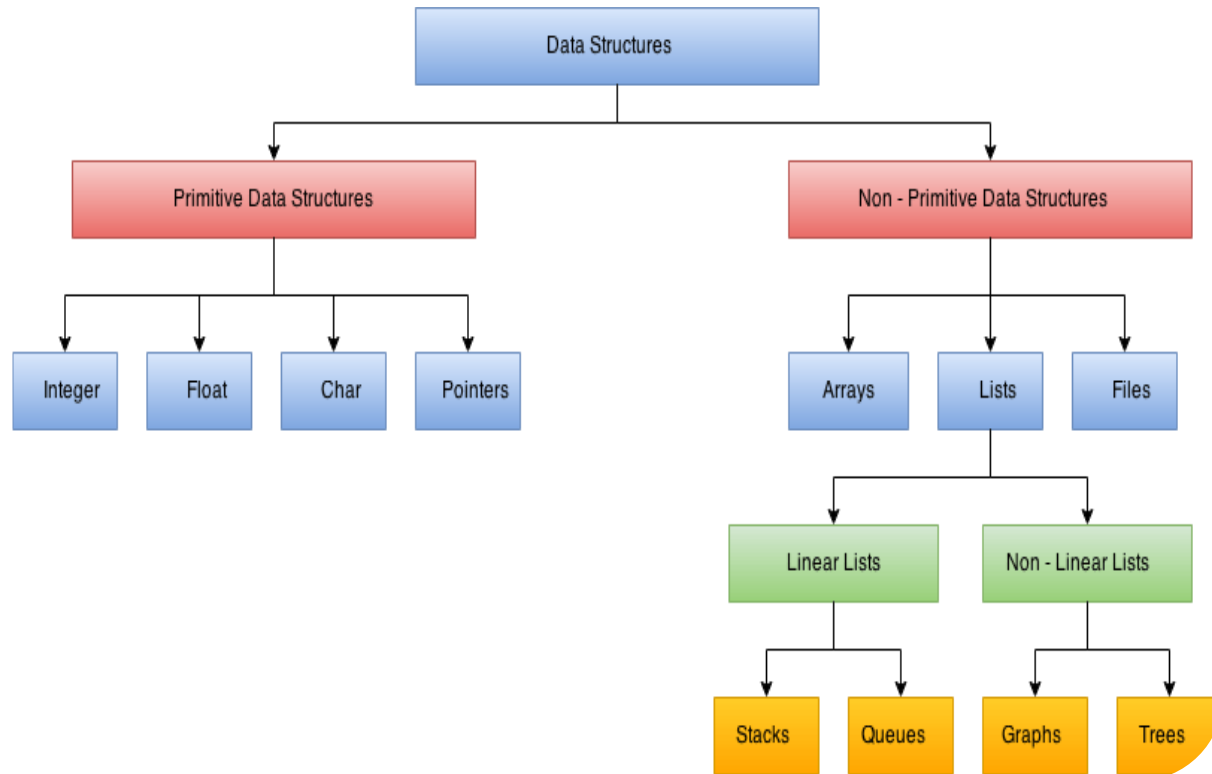




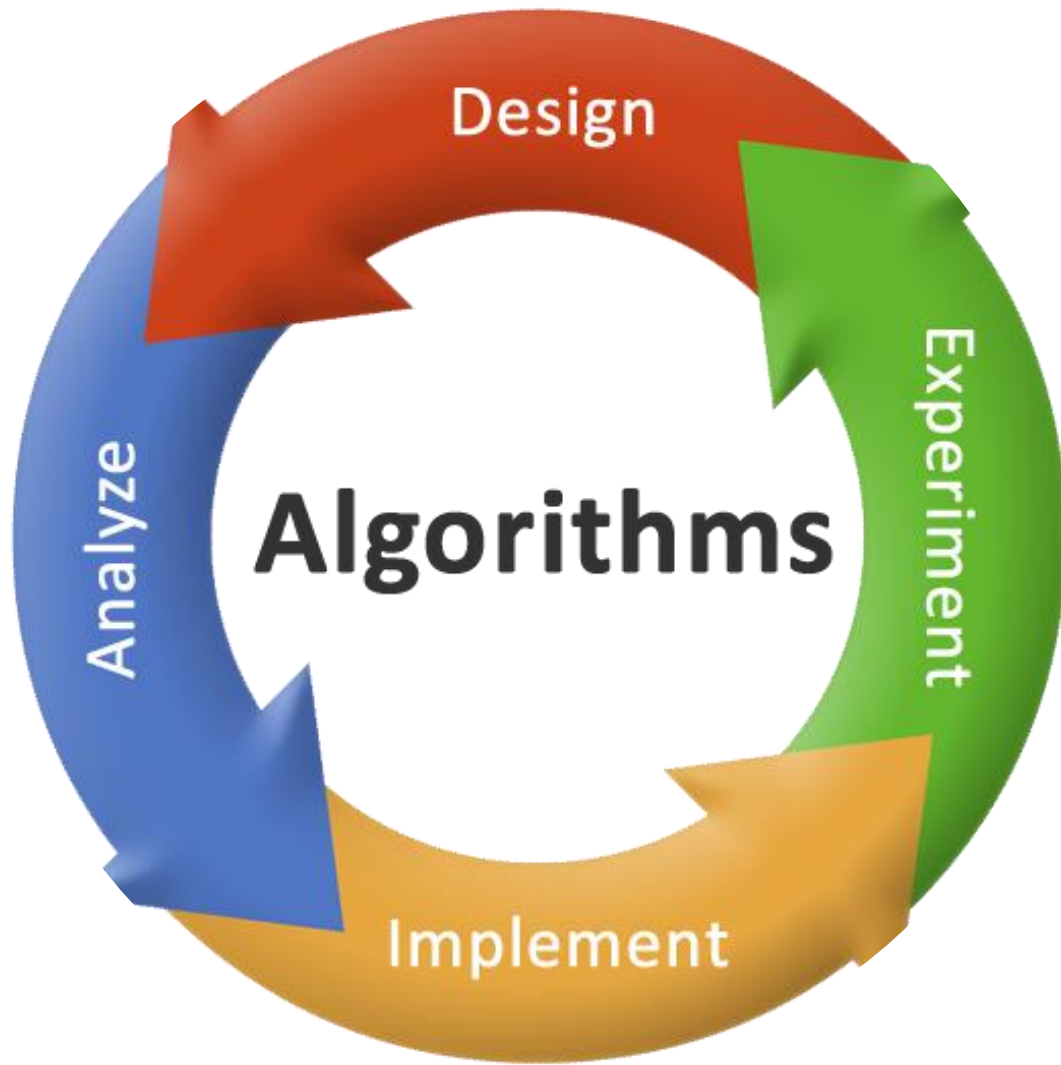
Object-oriented programming



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



Mohamed Moshrif

23.9 ألف مشترك 111 فيديو @mmeshref

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



محمد الدسوقي

337 ألف مشترك 449 فيديو @DesoukiEgypt

< تعلم علوم الحاسب باللغة العربية - لغات البرمجة و أوكل - و أدرس مقررات قواعد البيانات الجامعية .

3 روابط إضافية youtube.com/watch?v=Fr6wJ5_Hok0&list=PL1DUMTEdeA6IUD9...



Adel Nasim

150 ألف مشترك 217 فيديو @AdelNasim

< تم انشاء القناة لزيادة الوعي البرمجي لدى المشاهد العربي بتعلم لغات البرمجة المطلوبة بأسلوب سلس وشام...

adelnasim.com



Programming Advices

164 ألف مشترك 381 فيديو @ProgrammingAdvices

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

ورابطان إضافية programmingadvices.com/p/roadmap



Elzero Web School

1.25 مليون مشترك 2.7 ألف من الفيديوهات @ElzeroWebSchool

< Life Is Short, Start Learning

4 روابط إضافية elzero.org



English channels for Programming courses

✓ freeCodeCamp.org

@freecodecamp 8.2 مليون مشترك 1.4 ألف من الفيديوهات

< Learn to code for free.

donate.freecodecamp.org/?r=y



✓ Bro Code

@BroCodez 1.17 مليون مشترك 601 من الفيديوهات

< Coding bootcamps hate him!

twitch.tv/chocobro



✓ Neso Academy

@nesoacademy 2.19 مليون مشترك 2.5 ألف من الفيديوهات

< REDEFINING EDUCATION

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



Another channels for Programming courses

✓ Fireship

@Fireship 2.37 مليون مشترك 579 فيديو

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

5 روابط إضافية fireship.io



Errichto Algorithms

@Errichto 292 ألف مشترك 139 فيديو

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

4 روابط إضافية discord.gg/YWb3Bmg



Mr Algorithms

@mralgorithms5127 7.76 ألف مشتركًا 186 فيديو

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

1 رابط إضافي tiktok.com/@mralgorithms?lang=en



Channels for study materials of EELU

د. ابراهيم عماره Dr. Ibrahim Omara

@Dr.Ibrahim-Omara 1.94 ألف مشتركًا 114 فيديو

تقدم القناة باذن الله تعالى مراجعة و شرح لبعض المواد التي تخدم مرحلة البكالوريوس في تخصص الحاسب... <

facebook.com/ibrahim.omara.3 و3 روابط إضافية



Dr. Ahmed Hagag

@dr.ahmedhagag 39.6 ألف مشترك 217 فيديو

تقدم القناة شرح مبسط لبعض المواد التي تخص طلاب مرحلة البكالوريوس في تخصص الحاسبات والمعلوم... <

facebook.com/ahmed.hagag.71 و4 روابط إضافية



Important links for CS

- انهاء التشتت والوهم فى 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



Bavly Ebraam



Mostafa Hashem



Kyrillos Ayman



Yoanas Nageh



Thank you