

# COMPUTING CAREER GUIDANCE



# ENROLLING FOR A COMPUTER SCIENCE DEGREE AT NUST

## ▶ ENTRY REQUIREMENTS : 2 ROUTES

### ▶ ROUTE 1: NORMAL ENTRY

- 5 'O' LEVEL PASSES INCLUDING MATHS & ENGLISH
- 2 'A' LEVEL PASSES ; MATHS & PHYSICS

OR

MATHS & COMPUTER STUDIES

### ▶ ROUTE 2: SPECIAL ENTRY

- 5 'O' LEVEL PASSES INCLUDING MATHS & ENGLISH
- DIPLOMA IN COMPUTER STUDIES OR IT WITH 2 YEARS EXPERIENCE IN THE FIELD

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# DEGREE STRUCTURE

## ▶ 4 YEAR HONORS DEGREE

- 2 YEARS FULL TIME AT NUST
- 3<sup>RD</sup> YEAR ATTACHMENT IN A COMPUTING ENVIRONMENT
- 4<sup>TH</sup> YEAR AT NUST, COMPUTING PROJECT



# SKILLS ACQUIRED

- ▶ PROGRAMMING
- ▶ COMPUTER NETWORKS
- ▶ INFORMATION MANAGEMENT
- ▶ COMPUTER ARCHITECTURE & ORGANIZATION
- ▶ SOFTWARE ENGINEERING



# SKILLS ACQUIRED CT'D

- ▶ **SYSTEMS ADMINISTRATION**
- ▶ **GRAPHICS & VISUAL COMPUTING**
- ▶ **INTELLIGENT SYTEMS**
- ▶ **SOCIAL & PROFESSIONAL SKILLS**
- ▶ **COMPUTATIONAL SCIENCE**

# CS GRADUATE CHARACTERISTICS

**COMPUTER SCIENTISTS ARE CHARACTERISED BY: –**

- **ADAPTABILITY – LIFE LONG LEARNING**
- **KNOWLEDGE OF BOTH THEORY & PRACTICE**
- **PROBLEM SOLVING SKILLS**
- **FLEXIBILITY**



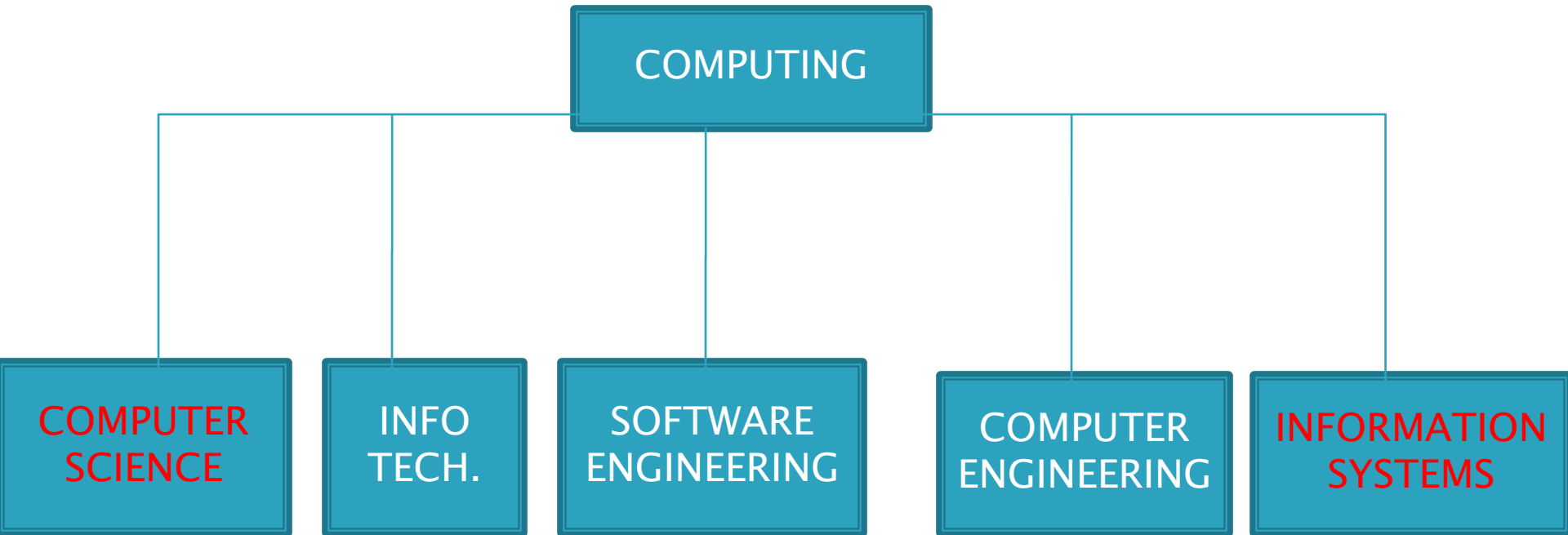
# CAREER PATHS

## i/ DESIGNING AND IMPLEMENTING SOFTWARE

- SYSTEMS ANALYST
- SOFTWARE ENGINEER
- COMPUTER PROGRAMMER
- SOFTWARE SUPPORT PERSON
- NETWORK SYSTEMS SPECIALIST
- SOFTWARE DEVELOPER
- WEB DEVELOPER



# COMPUTING DISCIPLINES



# CAREER PATHS

## II/ DEVISING NEW WAYS TO USE COMPUTERS.

- ▶ DESIGN OF COMPUTING TOOLS AND TECHNIQUES
- ▶ INTENSIVE RESEARCH
- ▶ DESIGN OF ALGORITHMS



# CAREER PATHS

## III/ PLANNING AND MANAGING ORGANIZATIONAL TECHNOLOGY INFRASTRUCTURE

- IT/ ICT MANAGER
- NETWORK ADMINISTRATOR
- DATABASE ADMINISTRATOR/ MANAGER
- COMPUTER & INFORMATION SYSTEMS MANAGER



# CONSIDER COMPUTING AS A CAREER OF CHOICE



