



CS 101 Introduction to Computing

Semester – 2014 -15 / II Semester

Units – 2 – 0 – 2 – 3

Pre-requisite – None

Instructors – Sanjay Dhande, Arya Bhattacharyya,
Lilian Besson, Vipin K

Tutors – Arya, Lilian, Vipin, Vivek, Kondiah

Course Organization

- Time Table: Lectures – Mondays, Tuesdays
- Time Table: Lab Sessions – Mondays, Tuesdays
- Lab Assignments – 12, Lab Sessions - 15
- One Term Paper
- Homework Assignments – 10, Lectures - 30
- Two Mid-semester Tests, End-semester Exam
- Attendance – Absolutely compulsory
- Honors Code applies in the course



Time Table - Lectures

- For A Section:
 - Monday 10:35 – 11:30 LT - 2
 - Tuesday 08:25 – 09:20 LT - 2
- For B Section:
 - Monday 08:25 – 09:20 LT - 4
 - Tuesday 11:35 – 12:30 LT - 2
- Special Schedule To be announced as needed



Time Table – Lab Sessions

- For A Section:
 - Sub-section A-1 Tue 13:35 – 15:30
 - Sub-section A-2 Fri 15:35 – 17:30
 - Sub-section A-3 Mon 14:35 – 16:30
 - Sub-section A-4 Wed 10:35 – 12:30
- For B Section:
 - Sub-section B-1 Mon 10:35 – 12:30
 - Sub-section B-2 Fri 13:35 – 15:30
 - Sub-section B-3 Wed 08:25 – 10:20
 - Sub-section B-4 Thu 08:25 – 10:20



Lab Assignments

- There shall be 12 lab assignments
- Lab assignments will be announced in advance
- Students are required to work on the lab assignments before coming to the lab
- Students are required to finish the program during the lab hours with good points
- Those who will not; will be given one extra day with penalty
- Each lab will carry 2 points
- Honors code is strictly applicable for lab work



Term Paper

- Students will be required to submit one term paper
- This will be towards the end of the semester
- The term paper will be submitted and presented by each group
- Each group will consist of two students
- The term paper will involve writing of a large program in Python language
- Each group will submit the title of the term paper in advance
- Honors Code applies in the term paper



Homework Assignments

- The course will have a total of 10 homework assignments
- Questions of homework will reflect the nature of questions in the mid-sem tests and end-sem exam
- Approximately one week time will be given for completing the homework assignment
- Each assignment will carry 1 point
- Homework has to be submitted at the time of lab
- Honors Code applies for the homework assignments



Two Mid-semester Tests

- There shall be two mid-semester tests
- Each test will be of 90 minute duration
- Each test will cover about 5 – 6 weeks of course material
- Each test will carry 15 points
- Attendance – Absolutely compulsory
- Honors Code applies in the tests



The End-semester Examination

- There shall be one end-sem examination at the end of the semester
- It shall be of duration 180 minutes
- It shall be a closed-book, closed-notes examination
- The exam will be based on the
- Two Mid-semester Tests, End-semester Exam
- Attendance – Absolutely compulsory
- Honors Code applies in the course



The Weights

- First Mid-sem Test – 15%
- Second Mid-sem Test – 15%
- End-sem Examination – 30%
- Lab Work (12 x 2) - 24%
- Term Paper - 6%
- Homework (10 x 1) – 10%
- Total - 100%
- Honors Code applies in the course



Text Book & Reference Books

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The Honor's Code

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Attendance Policy

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Thank You!

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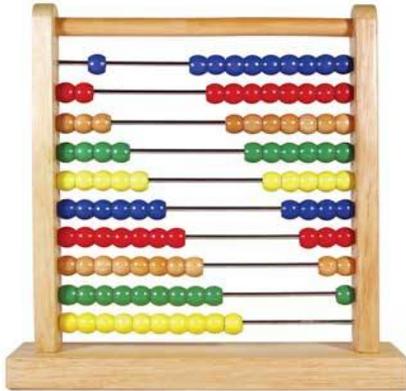
Historical Machines of Computing

- Historical Machines of Computing
- Analytical Engine
- Difference Engine
- Jacquard Loom, Knitting Machine
- Slide Rule, Logarithmic Tables
- Calculators
- Unit Record Machines
- ELIAC, UNIVAC computers



Lecture # 1, Section 2, Slide # 1. 2.2

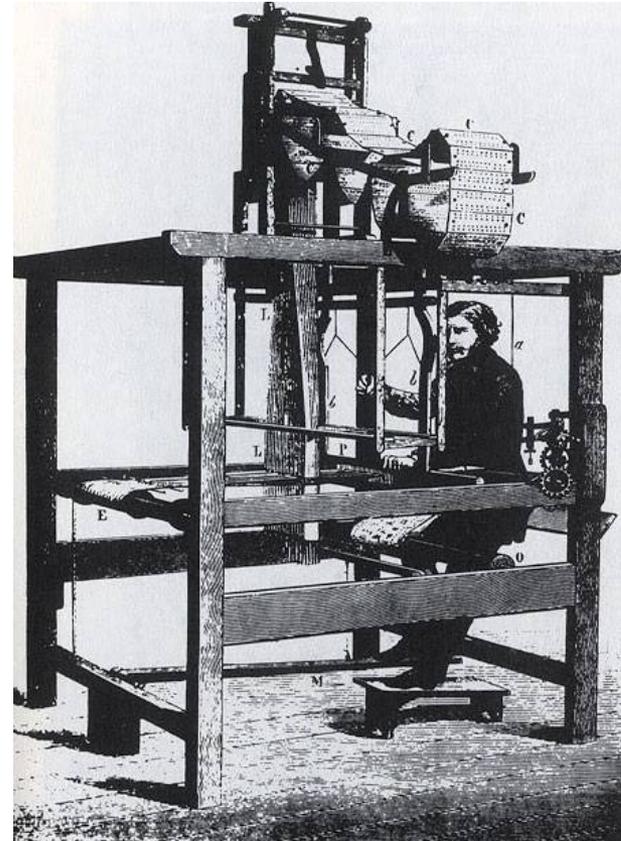
Abacus and other Devices



Lecture # 1, Section 2, Slide # 1.2.3

Jacquard Loom, Knitting Machine, Music

Organ, Doll





Difference Engine

No. 706,375.

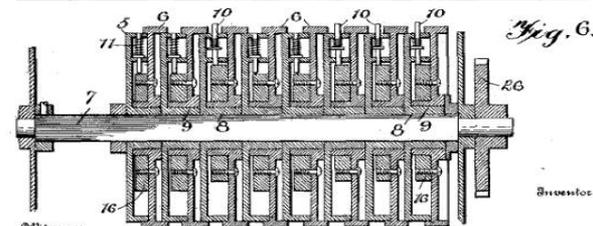
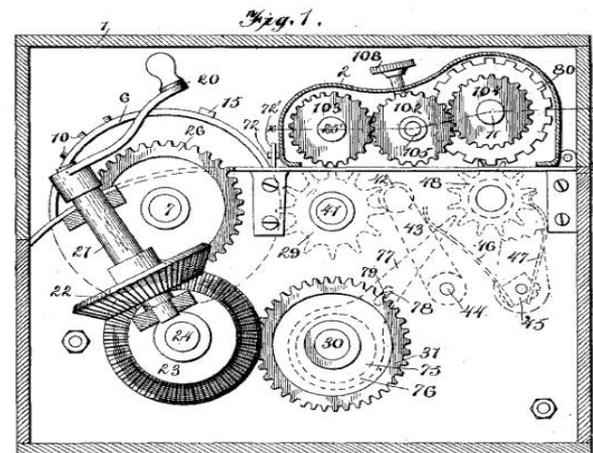
Patented Aug. 5, 1902.

F. S. BALDWIN.
CALCULATING MACHINE.

(Application filed Nov. 20, 1901.)

(No Model.)

8 Sheets—Sheet 1.



Witnesses
Geo. C. Wick
Charles R. Wright

Inventor
F. S. Baldwin

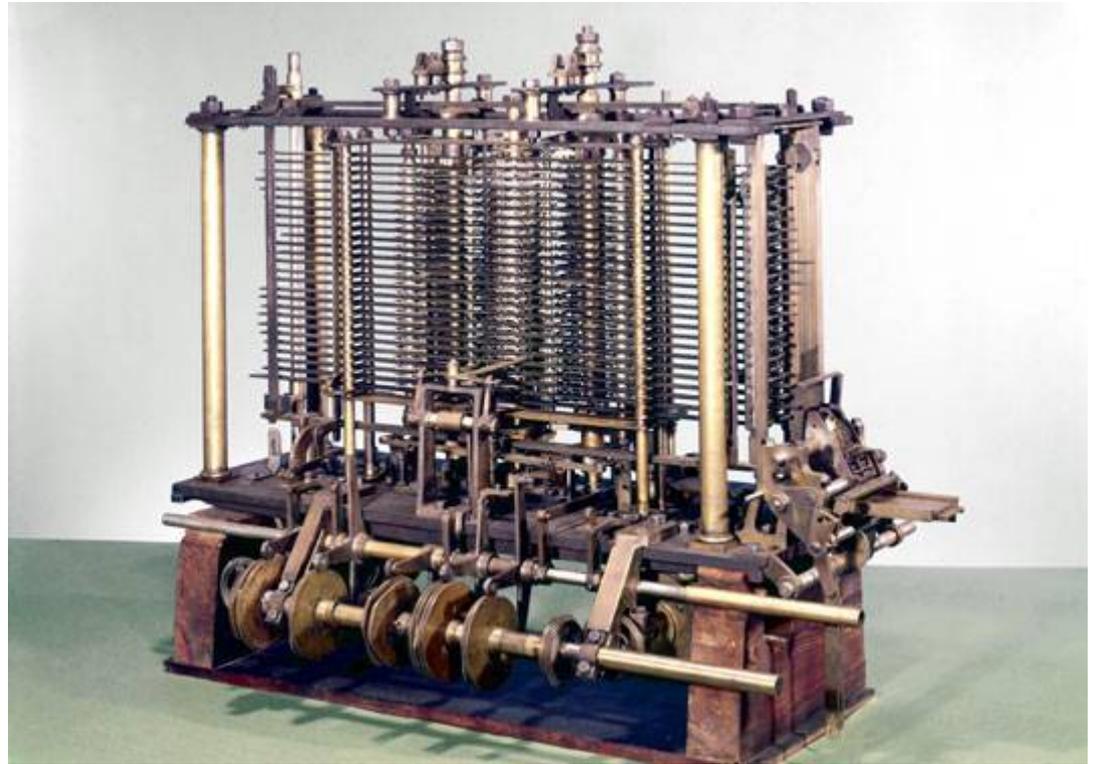
Attorney
A. S. Patton

Lecture # 1, Section 2, Slide # 1.2.5



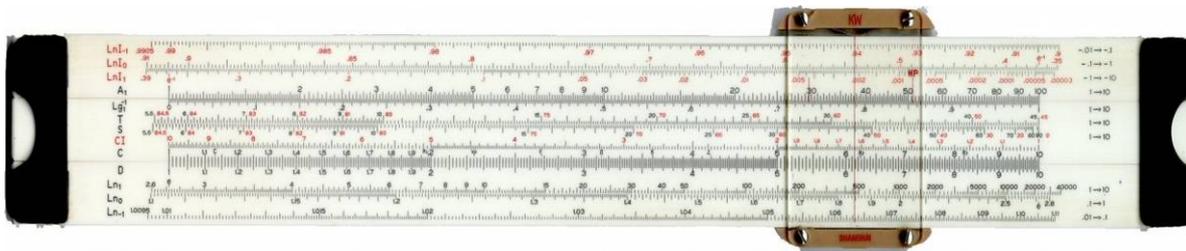
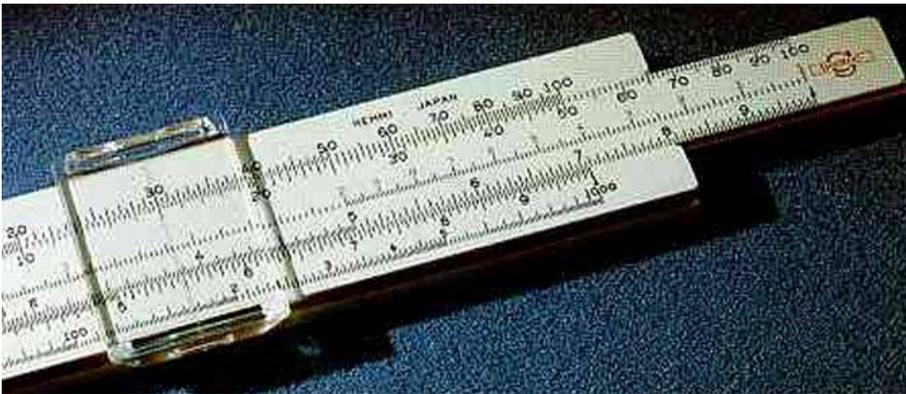
Mahindra
École Centrale
COLLEGE OF ENGINEERING

Analytical Engine



Lecture # 1, Section 2, Slide # 1.2.6

Slide Rule, Log Tables



Lecture # 1, Section 2, Slide # 1.2.7

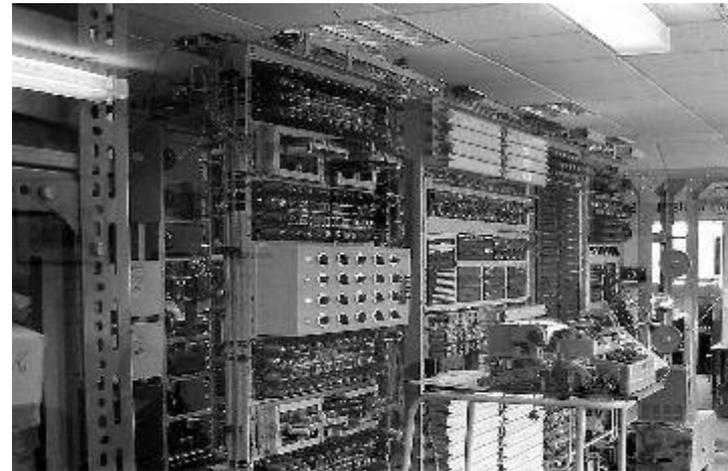
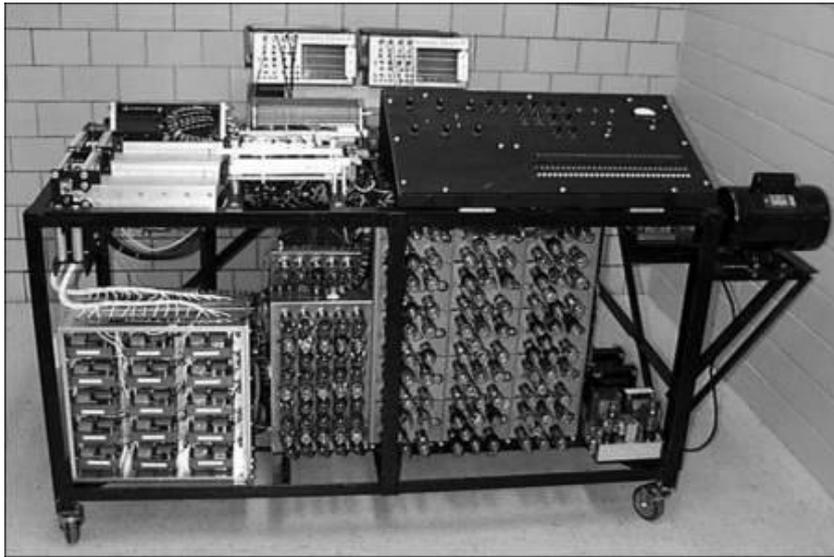


Calculators



Lecture # 1, Section 2, Slide # 1.2.8

Unit Record Machines



Lecture # 1, Section 2, Slide # 1.2.9

ELIAC, UNIVAC Computers

