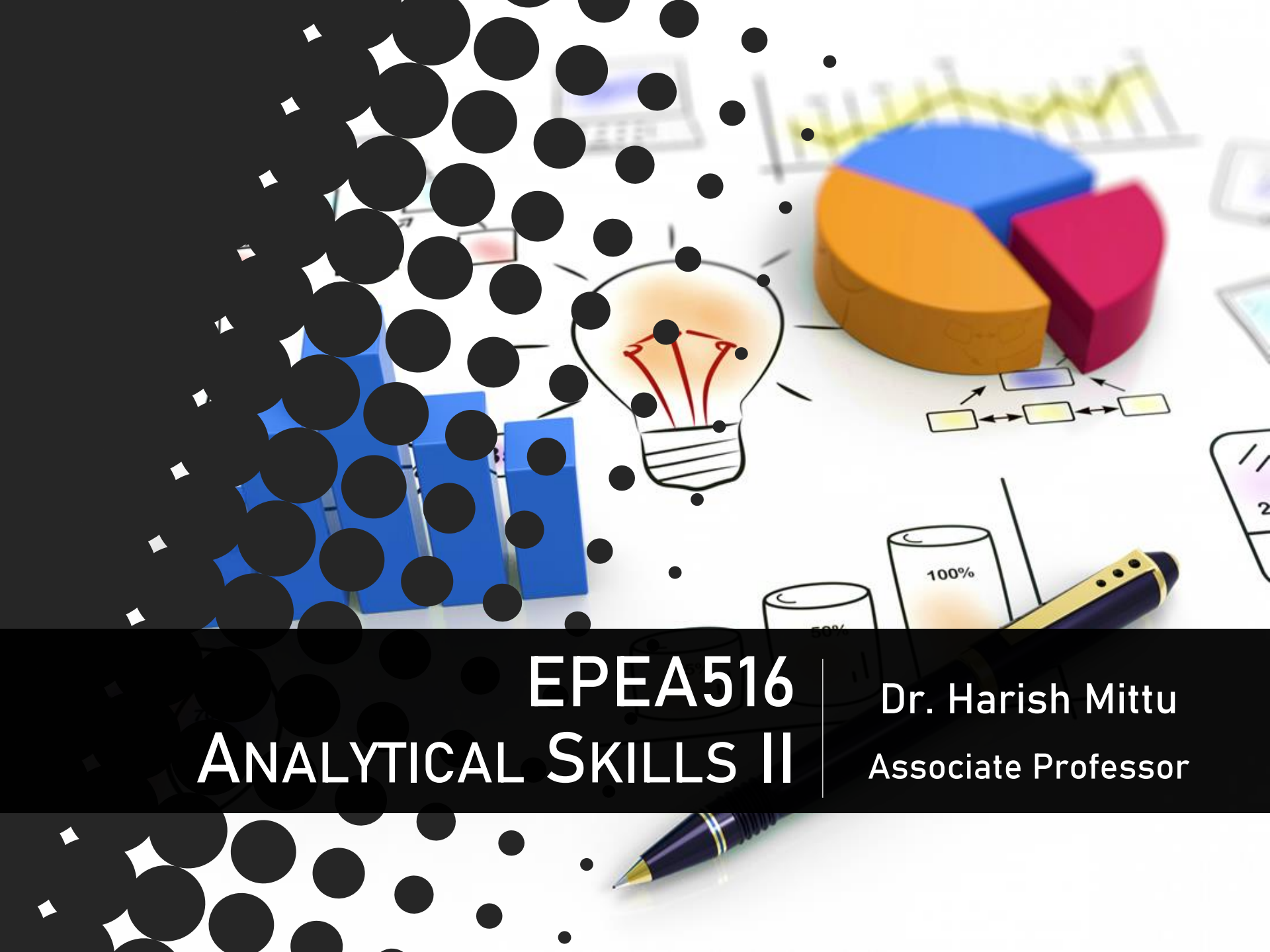

EPEA516
Analytical Skills II

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Learning Outcomes

After this lecture, you will be able to

- define the concept of odd days.
- develop understanding of the procedure for calculating odd days.

Calculation of Odd Days

- Concept
  - Number of Days - More than a Week
  - Given Number of Days ÷ Number of Weekdays
  - Remainder = Odd Day/Days

Calculation of Odd Days

- Number of Days = 11
- Number of Weekdays = 7
- Remainder = 11 ÷ 7

  = 4
- Odd Days = 4 Odd Days

Calculation of Odd Days

- Counting of Odd Days
- One Ordinary Year = 365 Days

  = (52 x 7 + 1) Days

  = 52 Weeks + 1 Day

  = 1 Odd Day

Calculation of Odd Days

- One Leap Year = 366 Days

  = (52 x 7 + 2) Days

  = 52 Weeks + 2 Days

  = 2 Odd Days

Calculation of Odd Days

- 100 years = 76 ordinary years + 24 leap years

  = (76 x 1 + 24 x 2) Odd Days

  = (76 + 48) Odd Days

  = 124 Odd Days

  = (17 x 7 + 5) Odd Days

  = 17 Weeks + 5 Odd Days

  = 5 Odd Days

Calculation of Odd Days

- Number of Odd Days in 200 years

= (5 x 2) Odd Days

= 10 Odd Days

= (7 + 3) Odd Days

= 1 Week + 3 Odd Days

= 3 Odd Days

Calculation of Odd Days

- Number of Odd Days in 300 years

= (5 x 3) Odd Days

= 15 Odd Days

= (14 + 1) Odd Days

= (7 x 2 + 1) Odd Days

= 2 Weeks + 1 Odd Day

= 1 Odd Day

Calculation of Odd Days

- Number of Odd Days in 400 years

= (5 x 4 + 1) Odd Days

= 21 Odd Days

= (7 x 3) Odd Days

= (7 x 3 + 0) Odd Days

= 3 weeks + 0 Odd Days

= 0 Odd Days

Calculation of Odd Days

In general,

Number of Odd Days = (7P + Q) Odd Days

Where Q < 7

Q = Number of Odd Days

Calculation of Odd Days

- Months and Number of Odd Days
- January = 31 Days

  = (7 x 4 + 3) Days

  = 4 Weeks + 3 Odd Days

  = 3 Odd Days

Calculation of Odd Days

Months and Number of Odd Days

Months	Number of Odd Days
January	3
February	0 (For Non-leap Year) 1 (For Leap Year)
March	3
April	2
May	3
June	2

Calculation of Odd Days

Months and Number of Odd Days

Months	Number of Odd Days
July	3
August	3
September	2
October	3
November	2
December	3

Calculation of Odd Days

- Ordinary Year
- Number of Odd Days in first three months

= (31 + 28 + 31) Days = (90) Days

= (84 + 6) Days

= (12 x 7 + 6) Days

= 12 weeks + 6 Days

= 6 Odd Days

Calculation of Odd Days

- Ordinary Year

Number of Months	Number of Days	Number of Odd Days
First Three Months	90	6
First Six Months	181	6
First Nine Months	273	0
Second Six Months	184	2

Calculation of Odd Days

- Leap Year

Number of Months	Number of Days	Number of Odd Days
First Three Months	91	0
First Six Months	182	0
First Nine Months	274	1
Second Six Months	184	3

Calculation of Odd Days

- Day of the Week and Number of Odd Days

Day of Week	Number of Odd Day
Sunday	0
Monday	1
Tuesday	2
Wednesday	3
Thursday	4
Friday	5
Saturday	6

Conclusion

- Concept of Odd Days
    - Number of Days - More than a Week
- Calculation of Odd Days

Conclusion

- Number of Odd Days
  - Ordinary & Leap Year
  - 100, 200, 300, 400 Years
  - Months and Number of Odd Days
  - Day of the Week and Number of Odd Days
  - Number of Odd Days = (7P + Q) Odd Days

Summary

- Odd Days
  - Concept of Odd Days
  - Calculation of Odd Days

That’s all for now…