

# C.G.P.A Grading System

Spoken Tutorial

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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# Learning Objectives

**We will learn**



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**We will learn**

- **About CGPA Grading System**



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**We will learn**

- **About CGPA Grading System**
- **How to calculate SGPA and CGPA**



# CGPA Grading System



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- **Student's performance is evaluated and represented concisely, as a grade or a score**



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  - \* **Course(Subject) Credits**



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- **Student's performance is evaluated and represented concisely, as a grade or a score**
- **The SGPA/CGPA score is calculated based on**
  - \* **Course(Subject) Credits**
  - \* **Grade Point Scheme**



# Course Credits



# Course Credits

- **Credit Points are associated with every course for a given programme**



# Course Credits

- **Credit Points are associated with every course for a given programme**
- **As an example, consider the following table**



# Sample Listing of Credit Points

<b>SI.NO</b>	<b>Course</b>	<b>Credits</b>
<b>1</b>	<b>Course 1</b>	<b>4</b>
<b>2</b>	<b>Course 2</b>	<b>4</b>
<b>3</b>	<b>Course 3</b>	<b>3</b>
<b>4</b>	<b>Course 4</b>	<b>3</b>
<b>5</b>	<b>Course 5</b>	<b>2</b>
<b>6</b>	<b>Course 6</b>	<b>2</b>



# Sample Listing of Credit Points

<b>SI.NO</b>	<b>Course</b>	<b>Credits</b>
1	Course 1	4
2	Course 2	4
3	Course 3	3
4	Course 4	3
5	Course 5	2
6	Course 6	2

**Credit Points distribution for a given semester**



# Grade Point Scheme



# Grade Point Scheme

- **A Grade Point Scheme is also published as part of the curriculum**



# Grade Point Scheme

- **A Grade Point Scheme is also published as part of the curriculum**
- **The following table shows one such Grade Point Scheme**



# Sample Grade Point Scheme

Letter Grade	Marks	Grade Point
O	80 and above	10
A	75 to 79.99	9
B	70 to 74.99	8
C	60 to 69.99	7
D	50 to 59.99	6
E	45 to 49.99	5
P	40 to 44.99	4
F (Fail)	39.99 and below	0



# SGPA



- **SGPA stands for Semester Grade Point Average score**



- **SGPA** stands for **Semester Grade Point Average** score
- **SGPA** represents the student's performance in a given semester



# SGPA Calculation



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$$SGPA = \frac{\sum_{i=1}^n C_i \cdot G_i}{\sum_{i=1}^n C_i}$$



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***n***: Number of courses in a given semester



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$$SGPA = \frac{\sum_{i=1}^n C_i \cdot G_i}{\sum_{i=1}^n C_i}$$

$C_i$ : Credit Points allocated for  $i^{th}$   
Course



# SGPA Calculation

$$SGPA = \frac{\sum_{i=1}^n C_i \cdot G_i}{\sum_{i=1}^n C_i}$$

$G_i$ : **Grade Points obtained for  $i^{th}$  Course**



# CGPA



- **CGPA** stands for **Cumulative Grade Point Average** score



- **CGPA** stands for **Cumulative Grade Point Average** score
- Represents the student's performance for all the courses he/she has completed



# CGPA Calculation



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$$CGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i}$$



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$$CGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i}$$

***N***: Total number of completed courses  
in a given programme



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$$CGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i}$$

$C_i$ : Credit Points allocated for  $i^{th}$   
course



# CGPA Calculation

$$CGPA = \frac{\sum_{i=1}^N C_i \cdot G_i}{\sum_{i=1}^N C_i}$$

$G_i$ : **Grade Points obtained for  $i^{th}$  course**



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76		
2	Course 2	4	60		
3	Course 3	3	50		
4	Course 4	3	55		
5	Course 5	2	80		
6	Course 6	2	90		



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	
2	Course 2	4	60		
3	Course 3	3	50		
4	Course 4	3	55		
5	Course 5	2	80		
6	Course 6	2	90		



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	
2	Course 2	4	60	7	
3	Course 3	3	50		
4	Course 4	3	55		
5	Course 5	2	80		
6	Course 6	2	90		



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	
2	Course 2	4	60	7	
3	Course 3	3	50	6	
4	Course 4	3	55		
5	Course 5	2	80		
6	Course 6	2	90		



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	
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5	Course 5	2	80	10	
6	Course 6	2	90	10	



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	
3	Course 3	3	50	6	
4	Course 4	3	55	6	
5	Course 5	2	80	10	
6	Course 6	2	90	10	



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	
4	Course 4	3	55	6	
5	Course 5	2	80	10	
6	Course 6	2	90	10	



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
4	Course 4	3	55	6	
5	Course 5	2	80	10	
6	Course 6	2	90	10	



# SGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
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3	Course 3	3	50	6	18
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6	Course 6	2	90	10	



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3	Course 3	3	50	6	18
4	Course 4	3	55	6	18
5	Course 5	2	80	10	20
6	Course 6	2	90	10	20



$$\sum_{i=1}^n C_i \cdot G_i = 140$$



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1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
4	Course 4	3	55	6	18
5	Course 5	2	80	10	20
6	Course 6	2	90	10	20



$$\sum_{i=1}^n C_i = 18$$



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Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
4	Course 4	3	55	6	18
5	Course 5	2	80	10	20
6	Course 6	2	90	10	20

$$SGPA = \frac{140}{18} = 7.77778$$



# CGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18



# CGPA Calculation Example

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3	Course 3	3	50	6	18
-					



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2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50					



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Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50				



# CGPA Calculation Example

Sl.No	Course	Credit	Marks	Grade Point	Ci*Gi
1	Course 1	4	76	9	36
2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3			



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2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3	50		



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3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3	50	6	



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-	Course -	-	-	-	-
50	Course 50	3	50	6	18



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3	Course 3	3	50	6	18
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-	Course -	-	-	-	-
50	Course 50	3	50	6	18

- The same method, as in the case of SGPA calculation, is followed here



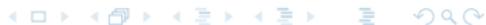
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2	Course 2	4	60	7	28
3	Course 3	3	50	6	18
-	Course -	-	-	-	-
-	Course -	-	-	-	-
50	Course 50	3	50	6	18

- Here, all the completed courses are taken into account



# Summary



# Summary

- **About CGPA Grading System**
- **How to calculate SGPA and CGPA scores**



# About the Spoken Tutorial Project

- Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- It summarises the Spoken Tutorial project



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- It summarises the Spoken Tutorial project
- If you do not have good bandwidth, you can download and watch it



# Spoken Tutorial Workshops

## The Spoken Tutorial Project Team

- Conducts workshops using spoken tutorials
- Gives certificates to those who pass an online test
- For more details, please write to [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)



# Acknowledgements

- Spoken Tutorial Project is a part of the Talk to a Teacher project
- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at

<http://spoken-tutorial.org/NMEICT-Intro>



# About the contributor

- **This script has been contributed by:**  
**Dept.of Information Technology,**  
**Amal Jyothi College of Engineering**
- **Thanks for joining**

