

Calculation of institutional CGPA

Arriving at the institutional CGPA includes calculation of the Key Aspect-wise Weighted Grade Point (KAWGP), the Criterion-wise Weighted Grade Point (CrWGP) and the Criterion-wise Grade Point Average (CrGPA). This involves use of the pre-determined Weightages (W) and the grade points assigned by the peer team for the 32 Key Aspects covering the seven criteria. The details for arriving at the KAWGP, CrGPA and CGPA are given below:

1. Calculation of KAWGP

NAAC has assigned predetermined Weightages to each of the 32 Key Aspects under the seven criteria. To help the peer team in arriving at KAGP, NAAC provides suggestive guiding indicators. Using the guiding indicators and based on their observations and assessment of the institution (onsite visit and the validation of SSR), the peer team is expected to assign appropriate grade point to each of the key aspect by using five point scale (0-4). These grade points are assigned as 0/1/2/3/4 without using decimal points and are referred to as the Key Aspect-wise Grade Points (KAGP). *Unlike in the earlier methodology where the letter grades were converted to grade points, the current methodology directly assigns the grade points without assigning any letter grades.*

The Key Aspect-wise Weighted Grade Point (KAWGP) is arrived at by multiplying the predetermined Weightage (W) of a Key Aspect with respective KAGP assigned by the peer team. i.e., $KAWGP_i = KAGP_i * W_i$

2. Calculation of CrGPA

Criterion-wise Grade Point Average CrGPA is calculated by dividing the sum of the Key Aspect-wise Weighted Grade Points (KAWGP) of a Criterion by sum of the Weightages of the Key Aspects of that Criterion. This also can be calculated by dividing the Criterion-wise Weighted Grade Point (CrWGP) by the total weightage of that Criterion as given below.

$$CrGPA_j = \frac{\sum_{i=1}^n (KAWGP)_i}{\sum_{i=1}^n W_i} = \frac{(CrWGP)_j}{W_j}$$

Where,

' i ' represents Key Aspects

' j ' represents the Criteria

'n' – number of Key Aspects in that Criterion

$\sum_{i=1}^n (\text{KAWGP})_i$ = sum of the assigned Key Aspect-wise Weighted Grade Points of that Criterion

$\sum_{i=1}^n W_i$ = sum of the predetermined Weightages of the Key Aspects of that Criterion

3. Calculation of CGPA

The sum of the seven CrW GP divided by the sum of the pre assigned Weightages of the seven Criteria will result in Cumulative Grade Point Average (CGPA) of the institution. The institutional CGPA will be the deciding factor for accreditation status of the institution and its grade.

$$\text{Institutional CGPA} = \frac{\sum_{j=1}^7 (\text{CrWGP})_j}{\sum_{j=1}^7 W_j}$$

A sample calculation of CGPA of a University

Criteria and Key Aspects	Predetermined Weightage (W_i)	Peer Team Assigned Key Aspect Grade Points(KAGP) _i 4/ 3/ 2/ 1/0	Key Aspect-wise Weighted Grade Points $\text{KAWGP}_i = \text{KAGP}_i * W_i$
Criterion I: Curricular Aspects			
Curriculum Design and Development	50	3	150
Academic Flexibility	50	2	100
Curriculum Enrichment	30	1	30
Feedback System	20	2	40
TOTAL	$W_I = 150$		$(\text{CrWGP})_I = 320$
Calculated Cr GPA_I = $(\text{CrWGP})_I / W_I = 320 / 150 = 2.13$			

Criterion II: Teaching – Learning and Evaluation			
Student Enrolment and Profile	10	3	30
Catering to Student Diversity	20	4	80
Teaching-Learning Process	50	3	150
Teacher Quality	50	3	150
Evaluation Process and Reforms	40	2	80
Student Performance and Learning Outcomes	30	3	90
TOTAL	W_{II} =200		(CrWGP)_{II} =580
Calculated Cr GPA_{II} =(CrWGP)_{II} / W_{II} = 580/200=2.90			

Criterion III: Research, Consultancy and Extension			
Promotion of Research	20	2	40
Resource Mobilization for Research	20	1	20
Research Facilities	30	2	60
Research Publications and Awards	100	2	200
Consultancy	20	0	0
Extension Activities and Institutional Social Responsibility	40	4	160
Collaboration	20	2	40
TOTAL	W_{III} =250		(CrWGP)_{III} =520
Calculated Cr GPA_{III} =(CrWGP)_{III} / W_{III} =520/250=2.08			

Criterion IV: Infrastructure and Learning Resources			
Physical Facilities	30	3	90
Library as a Learning Resource	20	3	60
IT Infrastructure	30	2	60
Maintenance of Campus Facilities	20	2	40
TOTAL	W_{IV} =100		(CrWGP)_{IV} = 250
Calculated Cr GPA_{IV} =(CrWGP)_{IV} / W_{IV} =250/100=2.50			

Criterion V: Student Support and Progression			
Student Mentoring and Support	40	4	160
Student Progression	40	3	120
Student Participation and Activities	20	3	60
TOTAL	W_V =100		(CrWGP)_V =340
Calculated Cr GPA_V =(CrWGP)_V / W_V = 340/100=3.40			

Criterion VI: Governance, Leadership and Management			
Institutional Vision and Leadership	10	3	30
Strategy Development and Deployment	10	2	20
Faculty Empowerment Strategies	30	3	90
Financial Management and Resource Mobilization	20	2	40
Internal Quality Assurance System	30	2	60
TOTAL	W_{VI} =100		(CrWGP)_{VI} =240
Calculated Cr GPA_{VI} =(CrWGP)_{VI} / W_{VI} =240/100=2.40			
Criterion VII: Innovations and Best Practices			
Environment Consciousness	30	3	90
Innovations	30	1	30
Best Practices	40	2	80
TOTAL	W_{VII}= 100		(CrWGP)_{VII} =200
Calculated Cr GPA_{VII} =(CrWGP)_{VII} / W_{VII} = 200/100=2.00			
Grand Total	1000		2450

$$\text{Institutional CGPA} = \frac{\sum_{j=1}^7 (\text{CrWGP}_j)}{\sum_{j=1}^7 W_j} = \frac{2450}{1000} = \boxed{2.45}$$

Final Outcome and Status of Accreditation

The Accreditation status of the institution in the above cited example would be: Institutional CGPA = 2.45, Letter Grade = B, Performance Descriptor = Good, Status = Accredited.