



CPI Calculation (B.Tech ICT)

A. Graduation Requirement (as per the document)

Credits ≥ 143

Grade Points ≥ 715

i. Break-up of 143 credits

Foundation = 102

Sem-I = 16.0

Sem-II = 20.5

Sem-III = 24.0

Sem-IV = 23.5

Sem-V = 13.5

Sem-VI = 4.5

Remaining = 41

Group Elective (**Min 2** in no.)** = 6 – 8

Technical Elective (**Min 4** in no.) = 12 – 16

Science Elective (**Min 6** and **Max 16 credits**) = 6 – 16

Open Elective (**Min 3** and **Max 9 credits**) = 3 – 9

** More than 2 GE taken would be considered as TE

Student needs to pass in all P/F courses, Internship and B.Tech Project

B. Final CPI (as per the document, Section 9.2)

1. Pass/Fail courses will not be counted.
2. Internship will not be counted.
3. **B.Tech Project would be counted.**
4. The total credits from course work will be taken from the least number of courses which are required to obtain 715 grade points from at least 143 credits.
5. All other courses taken by the student will be categorized as extra credits and not be considered for calculating the final CPI.

c. Detail of CPI Calculation

1. Assuming that the student satisfies the graduation criteria in all respect
2. Every course when counted, is counted with full credit points
3. CPI is calculated based on at least 143 credit points. Occasionally it could be slightly more than 143.
4. Best course implies the course for which highest grade point is obtained
5. Worst course implies the course for which lowest grade point is obtained

Course	# Courses	Credit Point	Grade Point
Foundation		102	G ₁
GE	X <ul style="list-style-type: none"> • If X>2, Take the best 2 and add remaining courses to TE 	C ₁	G ₂
TE	Y <ul style="list-style-type: none"> • Y includes extra courses from GE • If Y>4 Take the best 4 and add remaining courses to Extra 	C ₂	G ₃
SE	Z <ul style="list-style-type: none"> • If total credit point is greater than 16 then reduce it to 16 or less by eliminating worst courses • Take the best 2 courses so that credit points become 6 or more and add the remaining courses to Extra 	C ₃	G ₄
OE	W <ul style="list-style-type: none"> • If total credit point is greater than 9 then reduce it to 9 or less by eliminating worst courses • Take the best course so that credit points become 3 or more and add the remaining courses to Extra 	C ₄	G ₅
	Total	T ₁ = 102+C ₁ +C ₂ +C ₃ +C ₄	G ₆ =G ₁ +G ₂ +G ₃ + G ₄ +G ₅
Extra	E <ul style="list-style-type: none"> • E includes extra courses brought from TE, SE and OE • Take least number of best courses so that T₁+C₅>=143 and G₆+G₇>=715 	C ₅	G ₇
BTP		15	G ₈
	Total	T=T ₁ +C ₅ +15	G=G ₆ +G ₇ +G ₈

$$\text{CPI} = G/T$$