Gandhinagar Institute Technology
Post Graduate Program in Engineering/Technology

Post-Graduate Diploma in Cyber Security, PGDCS

Academic Regulations

R.1   ADMISSION

Any graduate from a recognized university candidate is eligibility for admission to the two year Post-Graduate Diploma (PG Diploma) in Cyber Security.

R.2   PROGRAMME OF STUDY

A student shall follow the prescribed programme set out in the programme of study enclosed at Annexure – 1 for the respective programme.

R.3   EXEMPTIONS

Exemptions are not applicable for the PG Diploma Program.

R.4   REGISTRATION

Subject registration is required only for the elective subjects offered in the respective programme for enrolled students in the respective regular program/course.

A student shall not be permitted to attend any classes without completing his/her registration formalities. The registration formalities must be completed by the student in person or on e-Governance software of the Gandhinagar University.

R.5   REQUIREMENTS FOR REGISTRATION

The student has successfully completed the pre-requisites for the subject, and the subject is being offered in the semester.

R.6   ASSESSMENT OF STUDENT PERFORMANCE IN SUBJECTs

Grading in each subjects are assigned based on earned marks. The performance of a student in a subject is judged through (i) Continuous Internal Evaluation of theory and practical (ii) End-Semester Theory and practical Examinations. The minimum passing criteria in each subject is 50%.

Continuous internal evaluation component may be done through written tests   (MSE/RMSE) and/or quizzes, Seminar, assignment etc. in case of theory and practical performance in lab/case study/viva in case of practical.

External Viva-voce and Dissertation will be conducted only at the end of the respective semester by the University and overall passing (out of total marks) will be 50%.

R.7   EXAMINATIONS

The end-semester examinations (Theory and Practical) for all subjects offered in each semester of an academic year will be conducted by the University.

No student shall be permitted for the end semester examination if he/she has not completed the required term work as per the rules and regulations in force.

The ratio between the external and internal theory assessment will be **60:40.**

R.8   LETTER GRADES

The overall performance of a student in a course is represented by a letter grade with equivalent grade points as below:

AA	10	CC	06
AB	09	CD	05
BB	08	DD	04
BC	07	FF	00

A subject is completed successfully, i.e., credit is earned for a subject, when a letter grade DD or better is obtained in the subject.

R.9   FAILURE IN A SUBJECT

A student does not earn any credit for a subject when he/she gets a letter grade FF in the subject.

The letter grade FF obtained in a subject will be shown in the final transcript issued to the student whether he/she subsequently obtains another letter grade in a repeat attempt.

R.10   PERFORMANCE EVALUATION (SGPA AND CGPA)

The student's performance in a semester will be indicated by the semester grade point average (SGPA). The SGPA and CGPA (Cumulative grade point average) are calculated as below.

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

Where C_i is the number of credits of the course i; G_i is the grade point for the course i; where i = 1 to n, **n**= number of courses in a semester.

Performance at the end of two or more consecutive semesters will be indicated by the CGPA. CGPA is calculated as below.

$$CGPA = \frac{\sum\limits_{i=1}^{n} C_i G_i}{\sum\limits_{i=1}^{n} C_i}$$

Where C_i is the number of credits of the course i; G_i is the grade point for the course i; where i= 1 to n, **n**= number of courses of all semesters up to which CGPA is computed.

R.11 DISCONTINUATION FROM REGULAR STUDY

Students who are having more than **4 backlog** up to the current semester excluding immediate previous semester are not eligible to continue study till the said criteria is fulfilled.

In such case student shall not be permitted for regular study of concerned next semester.

R.12 REPEAT SUBJECTS

A Subject which usually accounts for a higher rate of failure may be offered again as a repeat subject or subjects as the case may be in the following semester.

Repeat subjects are not offered to students as a matter of right. These subjects are offered subject to the availability of manpower and other facilities.

R.13 REQUIREMENTS FOR THE AWARD OF DEGREE

Total of **70** credits as prescribed under the programme of studies.

A minimum Cumulative Grade Point Average (CGPA) of 4.00.

No course with letter grade FF.

A student who for whatever reason is not able to complete the programme within the normal period or the minimum duration prescribed for the programme, may be allowed two years period beyond the normal period to clear the backlogs to be qualified for the degree.

The general formula, therefore, should be as follows:
Time Span = N + 2 years for the completion of the programme.
Where N stands for the normal minimum duration prescribed for the completion of the programme.
In exceptional circumstances a further extension of one more year may be granted upon the representation to Honorable Vice Chancellor stating the reason for extension request with supporting documents.
During the extended period, student shall be considered as private candidate and also not eligible for ranking.

R.14 AWARD OF CLASS

The class awarded to a student with his Master of Valuation degree is decided by final CGPA as under.

> DISTINCTION - CGPA ≥ 7.5
> FIRST CLASS - CGPA ≥ 6.0
> SECOND CLASS - CGPA ≥ 5.0
> PASS CLASS - CGPA < 5.0

R.15 TRANSCRIPT

The Transcript issued to the student at the time of leaving the University will contain a consolidated record of all the courses taken by him, grades obtained, **SGPA, CGPA** etc.

R.16 ATTENDANCE

A Student will be required to attend at least 75% of the total theory lectures organized in each subject during the semester.

PG Diploma (Cyber Security) Annexure 1.

Program Name: Post Graduate Diploma ()								Program Code: ( ) Cyber Security			
Semester / Year: First Year PG Diploma - Semester I								Effective From Academic Year: 2023-24			
Subject Code	Subject Name	Credit	Hours per week				Theory (Marks)		Practical (Marks)		Total (Marks)
			L	T	P	Total	University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
	Network Security Fundamentals	4	2	1	2	5	60	40	30	20	150
	Cryptography and Network Security	4	2	1	2	5	60	40	30	20	150
	Information Security Management	4	2	1	2	5	60	40	30	20	150
	Secure Software Development	4	2	1	2	5	60	40	30	20	150
	Legal and Ethical Aspects of Cybersecurity	4	2	1	2	5	60	40	30	20	150
		20				25					750

Program Name: Post Graduate Diploma ()								Program Code: ( ) Cyber Security			
Semester / Year: First Year PG Diploma - Semester I								Effective From Academic Year: 2023-24			
Subject Code	Subject Name	Credit	Hours per week				Theory (Marks)		Practical (Marks)		Total (Marks)
			L	T	P	Total	University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
	Advanced Network Security	4	2	1	2	5	60	40	30	20	150
	Web Application Security	4	2	1	2	5	60	40	30	20	150
	Intrusion Detection and Prevention Systems	4	2	1	2	5	60	40	30	20	150
	Secure System Design and Architecture	4	2	1	2	5	60	40	30	20	150
	Cyber Threat Intelligence	4	2	1	2	5	60	40	30	20	150
		20				25					750

Program Name: Post Graduate Diploma ()							Program Code: ( ) Cyber Security				
Semester / Year: First Year PG Diploma - Semester III							Effective From Academic Year: 2023-24				
Subject Code	Subject Name	Credit	Hours per week				Theory (Marks)		Practical (Marks)		Total (Marks)
			L	T	P	Total	University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
	Digital Forensics and Incident Response	4	2	1	2	5	60	40	30	20	150
	Wireless and Mobile Security	4	2	1	2	5	60	40	30	20	150
	Cloud Security	4	2	1	2	5	60	40	30	20	150
	Cybersecurity Risk Management	4	2	1	2	5	60	40	30	20	150
	Secure Coding and Software Testing	4	2	1	2	5	60	40	30	20	150
		20				25					750

Program Name: Post Graduate Diploma ()							Program Code: ( ) Cyber Security				
Semester / Year: First Year PG Diploma - Semester IV							Effective From Academic Year: 2023-24				
Subject Code	Subject Name	Credit	Hours per week				Theory (Marks)		Practical (Marks)		Total (Marks)
			L	T	P	Total	University Assessment	Continuous Assessment	University Assessment	Continuous Assessment	
	Industrial Control Systems Security	4	2	1	2	5	60	40	30	20	150
	Advanced Cryptography	4	2	1	2	5	60	40	30	20	150
	Secure IoT (Internet of Things)	4	2	1	2	5	60	40	30	20	150
	Cybersecurity Audit and Compliance	4	2	1	2	5	60	40	30	20	150
	Research Project/Dissertation	4	0	0	4	8	60	40	30	20	150
		20				28					