

DEPARTMENTAL PROFILE FORMAT

An Overview of the Department:

The Department of **COMPUTER SCIENCE** launched its journey in **2000** as General subject and marched ahead for pretty long time as General subject only. It obtained approval for introducing as Honours subject in **2018**. There are at present 30 sanctioned seats for Honours. There are one full time teacher, and five State Aided College Teachers(SACT) in the department. Besides teaching, the Department organizes class wise seminar, debate and prepares students for Quiz competition and Group discussion, so that they can keep pace with the time. The students can express their views independently through their writing in the wall Magazine and teachers guide them properly in this regard. Above all, the faculty members are always ready to render all possible assistance and guidance to students within and outside the campus as and when required. Consequently students get through the final examination with flying colours every year and go for further higher studies.

Evaluative Report of the Department of Computer Science

1. Name of the Department: **Computer Science**
2. Year of establishment: **2000 (General), 2018 (Honours)**
3. Names of Programs / Courses offered (UG, PG, M.Phil., Ph.D., Integrated Masters, Integrated Ph.D., etc.): **UG (B. SC Honours, B. SC General)**
4. Name of Interdisciplinary courses and the departments / units involved: **Library Information Studies**
5. Annual/Semester/Choice Based Credit System (programme wise): **CBCS**
6. Participation of the department in the courses offered by other departments: **Nil**
7. Courses in collaboration with other universities, industries, foreign institutions, etc.: **NA**
8. Details of courses / programs discontinued (if any) with reasons: **No.**

9. Number of teaching posts.

	Sanctioned	Filled
Professor	NA	NA
Associate Professor/Reader	No direct recruitment. On promotion only according to UGC-DPI, Govt. of West Bengal & University Rules	NA
Assistant Professor	1	1
SACT	5	5

10.

Faculty profile with name, qualification, designation, area of specialization, experience and research under guidance

Name	Qualification	Designation	Specialization	No. of Years of Experience	No. of Ph. D. Students guided for the last 4 years
SMT. ARPITA SANYAL (BHADURI)	MCA	ASSISTANT PROFESSOR	COMPUTER APPLICATION	7	NA
SMT. APARAJITA DATTA	M.SC , M.TECH	SACT	COMPUTER AND INFORMATION SCIENCE	2	NA
SRI. AMIT CHOUDHURY	MCA	SACT	COMPUTER APPLICATION	3	NA
SRI. SOURAV MALAKAR	M.SC , M.TECH	SACT	COMPUTER SCIENCE AND APPLICATION	2	NA
SRI. MANISH SHAW	M.SC	SACT	ELECTRONIC SCIENCE	2	NA
SMT. ARITRI ROY	M.SC	SACT	ELECTRONIC SCIENCE	2	NA

11 .List of senior Visiting Faculty: **NA**

12. Number of lectures delivered by Senior visiting faculty: **NA**

13. Number of lectures delivered by guest lecturers and part time lecturers: **NA**

14. Student Teacher Ratio (program-wise): Honours: **6:1** General: **3:1**

15. Number of academic support staff (technical) and administrative staff: sanctioned: **Not applicable** filled: **Not applicable**.

16 Qualification of teaching faculty with DSc/D. Litt/Ph. D./MPhil/ PG: Please refer to serial No. **10**

17. Number of faculty with ongoing projects from a) national b) international funding agencies and grants received: **NA**

18. Departmental projects funded by DST-FIST; UGC, DBT, ICSSR, etc., total grants received: **Nil**

19. Research Centre /facility recognized by the University: **No.**

20. Publications: **No departmental publication**

21. Publication per faculty: **SMT.ARPITA SANYAL (BHADURI):- 1 JOURNAL AND 1 BOOK CHAPTER**

SRI.SOURAV MALAKAR :- 2 JOURNAL

22. Research work, Publications and other information of: **NA**

Name of teacher	Research Work	M.Phil, Ph.D.
SMT.ARPITA SANYAL (BHADURI)	<ol style="list-style-type: none"> 1. Circuit Synthesis of Maximum Clique Problem using Combinatorial Approach of Classical-Quantum Hybrid Model. DOI: 10.1049/qt2.12029. 2. Circuit Synthesis of Marked Clique Problem using Quantum Walk. DOI: 10.1007/978-981-10-3409-1_3. 	Ph. D(Pursuing)
SRI.SOURAV MALAKAR	<ol style="list-style-type: none"> 1. Designing a long short-term network for short-term forecasting of global horizontal irradiance. 2. A Novel Feature Representation for Prediction of Global Horizontal Irradiance Using a Bidirectional Model” Machine Learning and Knowledge Extraction 3, no. 4: 946-965. https://doi.org/10.3390/make3040047 	Ph.D (Pursuing)

23. Publications: **NA**

24. Books edited: **NA**

25.Seminar/Conference (National & International):

SL NO	Name of the Teachers	Participation and Title of the Paper Presented	Title of Conference/Seminar	Organized By	Whether International/National/State/Regional/College or University level
1.	SMT.ARPITA SANYAL (BHADURI)	CIRCUIT SYNTHESIS OF MAXIMUM CLIQUE PROBLEM USING COMBINATORIAL APPROACH OF CLASSICAL-QUANTUM HYBRID MODEL.	APPLIED COMPUTATION AND SECURITY SYSTEMS (ACSS-2016)	DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING & A. K. CHOUDHURY SCHOOL OF INFORMATION	INTERNATIONAL
2.	SRI.SOURAV MALAKAR	AN ONLINE TREND DETECTION STRATEGY FOR TWITTER USING MANNKENDALL NON-PARAMETRIC TEST.	INDUSTRY INTERACTIVE INNOVATIONS IN SCIENCE, ENGINEERING AND TECHNOLOGY	SPRINGER IN INDUSTRY INTERACTIVE INNOVATIONS IN SCIENCE, ENGINEERING AND TECHNOLOGY, SINGAPORE	INTERNATIONAL
3.	SRI.SOURAV MALAKAR	A HYBRID AND ADAPTIVE APPROACH FOR CLASSIFICATION OF INDIAN STOCK MARKET-RELATED TWEETS.	DATA MANAGEMENT, ANALYTICS AND INNOVATION.	SPRINGER IN DATA MANAGEMENT, ANALYTICS AND INNOVATION, SINGAPORE.	INTERNATIONAL

4.	SRI.SOURAV MALAKAR	AN EMPIRICAL ANALYSIS OF CLASSIFIERS USING ENSEMBLE TECHNIQUES.	DATA MANAGEMENT , ANALYTICS AND INNOVATION.	SPRINGER IN DATA MANAGEMENT, ANALYTICS AND INNOVATION, SINGAPORE.	INTERNATIONAL
5.	SRI.SOURAV MALAKAR	ANALYSIS OF GHI FORECASTING USING SEASONAL ARIMA.	DATA MANAGEMENT, ANALYTICS AND INNOVATION.	SPRINGER IN DATA MANAGEMENT, ANALYTICS AND INNOVATION, SINGAPORE.	INTERNATIONAL
6.	SRI.SOURAV MALAKAR	UNDERSTANDING EMPLOYEE ATTRITION USING MACHINE LEARNING TECHNIQUES	DATA MANAGEMENT, ANALYTICS AND INNOVATION.	SPRINGER IN DATA MANAGEMENT, ANALYTICS AND INNOVATION, SINGAPORE.	INTERNATIONAL
7.	SMT. APARAJITA DATTA	AUTOMATED MULTICLASS CLASSIFICATION OF FOLIAR LEAF DISEASE USING STATISTICAL AND COLOR FEATURE EXTRACTION AND SUPPORT VECTOR MACHINE COMPUTATIONAL INTELLIGENCE,	COMMUNICATIONS IN COMPUTER AND INFORMATION SCIENCE,ISSN NO- 1865-0929 (CCIS),SPRINGER	SPRINGER IN COMMUNICATIONS IN COMPUTER AND INFORMATION SCIENCE	INTERNATIONAL
8.	SMT. APARAJITA DATTA	CLASSIFICATION OF AGRICULTURAL PESTS USING STATISTICAL AND COLOR FEATURE EXTRACTION AND SUPPORT VECTOR MACHINE	INTERNATIONAL CONFERENCE ON INNOVATIONS IN COMPUTER SCIENCE(ICICS 2018) .	INTERNATIONAL CONFERENCE ON INNOVATIONS IN COMPUTER SCIENCE	INTERNATIONAL

26. Number listed in International Database (For e.g. Web of Science, Scopus, Humanities International Complete, Dare Database - International Social Sciences Directory, EBSCO host, Medline, etc.)

Citation Index – range / average: **Nil**

SNIP: **Nil**

SJR: **Nil**

Impact Factor – range / average: **Nil**

h-index: **Nil**

27. Areas of consultancy and income generated: **Nil**

28. Faculty as members in

a) National committees b) International committees c) Editorial Boards: **NIL**

29. Percentage of students placed for projects in organizations outside the institution i.e., in Research laboratories / Industry / other agencies: **Nil**

30. Awards / recognitions received at the national and international level by

Faculty: **Nil**

Students: **Nil**

31. List of eminent academicians and scientists / visitors to the department:

Sl. No	Name	Designation	Institute
NIL	NIL	NIL	NIL

32. Seminars/ Conferences/Workshops organized and the source of funding: **NA**

Departmental Seminars: **NA**

33. Student profile program-wise:

Name of the Course/Programme (refer to question no. 4)	Applications received	Selected		Enrolled		Pass percentage
		Male	Female	* M	* F	
B. Sc Part I (Hon)	20		F		14	100%
B. Sc Part II (Hon)	18		F		14	100%
B. Sc Part III (Hon)	20		F		7	100%

* M=Male * F=Female

34.-Diversity of students

Name of the Course	% of students from the same State	% of students from other State	% of students from abroad
B.SC 1 st year Hon	100%	NIL	NIL
B.SC 1 st year (Gen)	100%	NIL	NIL
B.SC 2 nd year(Hon)	100%	NIL	NIL
B.SC 2 nd year(Gen)	100%	NIL	NIL
B.SC 3 rd year(Hon)	100%	NIL	NIL
B.SC 3 ^r year (Gen)	100%	NIL	NIL

35.How many students have cleared national and state competitive examinations such as NET, SLET, GATE, Civil Services and Defence Services etc.?

Name	Examination
NIL	NIL
NIL	NIL
NIL	NIL

(Note: It is further notified that the considerable number of our students is in School Service, some are also in Defence and Civil services. For ref...only.)

36. Student progression

Student Progression	Against % enrolled
UG to PG	80
PG to M. Phil	NIL
PG to Ph. D	NIL
Ph. D to Post-Doctoral	NIL
Employed- Campus selection -Other than campus recruitment	10
Enterpreneurship /Self-employment	NIL

37. Details of infrastructural facilities

a) Library: **YES**

b) Internet facilities for staff and students: **YES**

c) Class rooms with ICT facility: **3**

e) Laboratories: **2**

38. Number of students receiving financial assistance from College, University, government or other agencies: **7**

39. Details of student enrichment programmes (special lectures / workshops/seminar) with external experts: **NA**

1.

2.

3.

40. Teaching methods adopted to improve student learning

i. Lecture method

ii. Group discussion

iii. Rapid participatory techniques

iv. Demonstration method.

v. Special class and care to advanced and slow learners.

vi. Participation in Institutional Social Responsibility (ISR) and Extension activities:

(The faculty members and students of the department are regularly participating in the Institutional Social Responsibility and Extension activities organized by the NSS and Health Unit of the college.)Reference....only...

SWOC analysis of the department and future plans.

Strength:

Qualified and experienced faculty & staff members, Strong ethics and commitment to quality, positive moral, commitment to seek opportunities, Excellent team work among faculty and students.

Adequate infrastructure.
Good performance of students in examination.
Good Placement Record.
Revised and updated choice-based credit system for curriculum of UG programme.

Weakness:

Sponsored/non-sponsored research projects.
Research infrastructure.
No stronger relationships with R&D organizations.
Weak academic performance by lateral entry students.

Opportunities:

Changes in Technology.
Enhanced R&D, consultancy.
Starting new courses.
Increased revenue generation.
Interdisciplinary growth across departments.
To strengthen lateral entry students academic performance through remedial classes.

Challenges:

International collaboration.
Networking with National R & D labs.
NRI students attraction.

Future plans:

Introduction of several professional courses in collaboration with several institutions.
Organizing different workshops, seminars in collaboration with other universities/colleges/creative platforms at different levels.
Conducting International Conference in the upcoming years.
Introduction of PG course in computer science .