DEPARTMENTAL PROFILE

Department: Computer Science
Session 2020-21

1) **Scope and importance/introduction of the departments:**

   The Department of Computer Science of the Hiralal Bhakat College is successfully running B.Sc General in Computer Science programme since 2018-19 session. Bachelor in Computer Science is a three year (six semester) full-time regular degree course (CBCS) in Computer Science. This degree course is affiliated by The University of Burdwan. This department suggests computer science honours course in future under the university of Burdwan. We are waiting for such advanced course for the development of technical abilities.

   The Computer Science program is aimed at designing and implementing advanced traditional computing environment. Computer science has both 'logical' and 'technical' components. These components are based on functional and informational requirements, system configurations and Computer science standards and rules that will be used to implement the logical architecture.

2) **Vision & Mission of the department:**

   Vision:

   As a department of distinction in computer science, we want to change students into prospective resources who can use cutting-edge computing in real-time scenarios to contribute creatively. To do this, we will impart knowledge, applicable practices, and human values.

   Mission
   - Add-on / Certificate course on machine learning
   - Installation of high quality programming software
   - Hands on training program on Artificial Intelligence
   - Seminar, Workshop and Science fair.

3. Year of Establishment: 2018

4. Detail of Programmes / Courses offered (UG, PG, M. Phil., Ph.D., Integrated Masters; Integrated Ph.D., Short term courses, Career oriented courses, etc. (Current academic year)

Sr No.	Programme level	Name of the programme/ Course	Duration	Entry qualification	No. of eligible applications	Sanctioned/ Approved student strength	No. of Student admitted		
							M	F	T
1	UG	CBCS (General)	3-year	HS or equivalent	67	40	8	5	13

5. Annual/ semester/choice based credit system/elective course pattern (programme wise)

Programme	Pattern	Year of revision (if any)	Year of Implementation
UG	CBCS	2017	2017

6. Number of Teaching and Non-teaching positions in the department

Designation	Sanctioned	Filled
Professors	NIL	---
Associate Professors	---	---
Asst. Professors	…..	…..

7. Faculty profile with name, qualification, designation, specialization, (Ph.D. / M. Phil. etc.,)

Sr. No.	Name of Dept.	Name of faculty	Qualification	Year of appointment	Designation	Specialization	Number of years of teaching experience (Present Inst.)
1	Computer Science	SK ABDUL HANIF	M.C.A	2018	Guest Lecturer		2 years +
				2020	SACT		

8. List of senior visiting faculty

Sr. No.	Name of the faculty With contact details	Date/Year of appointment in the present Institution	Nature of appointment [CHB/Month/Y]	Name of Previous Institute	Designation in last served institution
	NIL				

9. Number of academic support staff (technical) and administrative staff; sanctioned and filled

Name of the Post	Sanctioned	Filled
NIL		

10. a) Ongoing /completed research projects by faculty funded by governmental and non-governmental agencies (Last five years)

Sr. No	Name of the Dept.	Name of the principal investigator and/or Co-PI	Year of sanction (sanc. Letter no. & date)	Title of the research project	Amount fund sanctioned/Received (1st 2nd Y/3rd Y)	Name of funding agency	Duration of the project
	NIL						

b) Total number of patents published/awarded year-wise during the period

Name of the Department	Name of the Patenter	Year of award of patent	Patent submitted/Filed	Patent number	Title of the patent
NIL					

11. Research papers published in journals notified on UGC website (Last five years)

Sr. No	Name of Journal	Title of Research Paper	ISSN/ ISBN No	Whether peer reviewed. Impact Factor, if any	Recognition in UGC enlistment of the journal
	NIL				

12. Research papers published in National/International Conference-proceedings

Sr. No	Name of the Conference Seminar	Title of Research Paper	ISSN/ ISBN No	Place & Date	Affiliating Institute at the time of publication
	NIL				

13. Details of books and chapters in edited Volumes/Books published as Contributor/Editor

Sr. No	Title of the book/chapter published	National/ International	Year of publication	ISSN/ ISBN No	Name of the publisher
	NIL				

14. Name of research guides

Sr. No	Name of Research Guide	Department	PhD/MPHIL
	NIL		

15. Number of Ph. D/ M. Phil awarded by faculty

Sr. No	Name of Ph. D/M. Phil scholar	Department	Name of the Guide/s	Title of the thesis	Year of registration of scholar	Year of awards of Ph. D/ M. Phil.
	NIL					

16. Faculty as chairman/members in National committees/International Committees/ Editorial

Boards/ BOS/University committees etc.

Sr. No	Name of faculty	Department	Name of the body in which full time teacher participated	Member of editorial board	Reviewer

17. Student undertaking field projects/ internships
   a) Percentage of students who have done in-house projects including inter departmental/Programme

Sr. No	Program name	Course/Program code	Session	Name of Mentor	No. student undertaking field projects	Title of the Project	Place	Duration
	NIL							

b) Percentage of students placed for projects in organizations outside the institution i.e. in Research laboratories/Industry/society other agencies

Sr. No	Program name	Course/Program code	Session	Name of Mentor	No. student undertaking Projects in Res Lab/Industry/Society/Other agencies	Title of the Project	Place	Duration
	NIL							

18. Awards / Recognitions received by faculty

Sr. No	Year of awards	Name of teachers receiving awards from University level/State level, National level, International level	Initiatives/Types of the initiative given by the Institute in recognition of the award	PAN	Designation	Name of the award, fellowship, received from government or recognized bodies
	NIL					

19. Numbers of awards / Medals for outstanding performance in sports/cultural activities in National/ International/ State level etc. received by students

Sr No.	Year	Name of the students	Name of the Award/Medal	National/International/State etc.	Sports/ Cultural	Aadhar/Student ID No.	
	NIL						

20. Students Qualifying in State/National/International level examination (NET, SET, GATE, GMAT, GRE, TOEFL/UPSC/MPSC/State government examination, etc.)

Sr No	Name of the students	Registration No./Roll No. of the Exam.	Number of students selected								
			SET	NET	GATE	GMAT	CAT	RGE	TOFEL	Civil services	State Govt. Examinations/ Others

21. Student progression to higher studies. UG to PG, PG to M. Phil., PG to Ph. D, M. Phil to Ph. D, Ph. D to post-Doctoral, etc. (Last Batch, 2022-23)

a) UG to PG

Sr No.	Pgm graduated from	Deptt. graduated from	Student Name	Name of the Inst. joined	Name of the pgm admitted
	NIL				

b) PG to M. Phil

Sr No.	Pgm graduated from	Deptt. graduated from	Student Name	Name of the Inst. joined	Name of the pgm admitted
	NIL				

c) PG to Ph. D or M. Phil to Ph. D.

Sr No.	Pgm graduated from	Deptt. graduated from	Student Name	Name of the Inst. joined	Name of the pgm admitted
	NIL				

22. Placement of outgoing students (Last five years: 2018-2023)

Sr No.	Year	Contact detail	Number of students placed	Name of the employer with contact details	Package received	Program graduated from
	NIL					

23. List of alumni/contribution

Sr No.	Name of Alumni	Year of Graduation/ Post-Graduation	Position held	Contact detail (Email, Mobile No.)	Quantum of Contribution	
	NIL					

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

Sr No.	Year	Name of Eminent academicians and Scientists	Position held (Present)	Name of the Institution working/last working	Contact detail (Email, Mobile No., etc.)	
	NIL					

25. Seminars/ Conferences/Workshops organized & the source of funding

Sr No.	Year	Level National/ International/ State	Name of the workshop/ Seminar	Funding agency	Amount sanctioned	Durations (From-To)	Number of participants
		NIL					

26. Diversity of Students

Year	Name of the Course/programme	% of students from the State	% of students from other states	% of students from abroad
	NIL			

27. Departmental result

Year	Name of the Programme with Code	Course Code	Number of students appeared in the Final Year Exam.	Number of students passed in the Final Year Exam.	Pass percentage
	NIL				

28. a) Number of days from the date of last semester-end/year-end Exam. Till the declaration of results during the year

Programme name	Programme code	Semester/Year	Last date of the last semester-end/year-end Exam.	Date of declaration of results semester-end/year-end Exam.
UG	B.Sc	VI	14-08-2021	26-08-2021

b) Status of automation of examination division along with approved examination manual

100% automation of entire division & implementation of examination management system (EMS) [Y/N]	Student registration, Hall Ticket issue & Result processing are automated [Y/N]	Student registration & Result processing are automated [Y/N]	Result processing is only automated [Y/N]	Follow manual methods [Y/N]
Y	Y	Y	N	Y

29. Number of linkages for faculty exchange/student exchange/training/internship/field trips/job on training/research etc.

Sr No.	Year of commencement	Title of the linkage	Name of the partnering institution/ industry /research lab with contact details	Duration (From-To)	Nature of linkage
	NIL				

30. Number of functional MoU's with corporate houses/ industries/other institutes/Universities, etc.

Sr No.	Year of signing MoU	Name of the organisation/ institution/ industry/ corporate house with which MoU is signed	List the actual activities under each MoU year wise	Duration (From-To)	Number of students/teachers participated under MoUs
1	NIL				

31. Details of Infrastructural facilities
a) Library

Sr No.	Year of purchase	Total budget of the Year	Expenditure incurred in Lakh	Name of Books	Publisher	Number of copies
1	NIL					

b) ICT Facility etc.

Sr No.	Name of the Dept.	No. of Class rooms with LCD/WiFi/LAN facility	No. of Smart Class room	No. of Laboratories	No. of Computer Laboratories
1	Computer Science	2	1	0	1

c) List of Equipment/Instruments

Sr No.	Name of the Dept.	Name/Model of Equipment	No. of Equipment below Rs 1.0 Lac	No. of Equipment below Rs 5.0 Lac	No. of Equipment above Rs 5.0 Lac
1.	Computer Science	Computer	10	0	0

32. Number of students receiving financial assistance from college, university, government or other agencies-

Sr. No.	Name of the Deptt.	Name of the student	Name of the Fellowship/ Financial assistance	Funding agency			
				University	State Govt.	National	Other
1	Com. Sci	ABHAY MONDAL	SVMCM	--	State Govt.	--	--
2	Com. Sci	NEHA SHAW	SVMCM	--	State Govt.	--	--
3	Com. Sci	PARESH LET	SVMCM	--	State Govt.	--	--
4	Com. Sci	ASHA KHATUN	SVMCM	--	State Govt.	--	--

33. Details on student enrichment programmes (special lectures / workshops / seminar) with external experts

Sr No.	Name of the Deptt.	Name of the Programmes (special lectures / workshops / seminar)	Duration	Funding agency (if any)	Name of the Expert with details	Total no. of beneficiaries
1						

34. Teaching methods adopted to improve student learning-
• PowerPoint presentation
• Students seminars
35. Participation in Institutional Social Responsibility (ISR) and Extension activities
   a) IQAC Member
   b) Campus Supervision Committee Member
36. **SWOC analysis of the department**

Institutional Strength
   ➢ The department is well-focused and student-centered.
   ➢ Remedial classes in every week
   ➢ Effective use of ICT in teaching learning process.
   ➢ Excellent department library and computing, Internet ,computer practical room facilities are available.
   ➢ Safe and Secured Environment for girl students.

Institutional Weakness
   1) Lack of full-time Teacher.
   2) No separate class room.
   3) Involvement of Alumni in facilitating campus recruitment.
   4) Number of volumes and journals in the department library need to be increased.
   5) More effort is needed to increase the number of state/central government funded projects to strengthen the department.
   6) Soft skills and communication skills of students need to be improved.
   7) No sufficient computer.

Institutional Opportunity
   1) Innovative teaching learning methods.
   2) Special guidance for competitive exams
   3) Scope to learn programming software for higher studies.
   4) Opportunity for active participation in various science events. Scope for the development of interdisciplinary projects useful for society.

Institutional Challenge
   ➢ To increase students strength in the department.
   ➢ To train the students perfectly for both academic and competitive exams.
   ➢ women students coming from varied socio economic background
   ➢ To offer various certificate or add-on courses for academic excellence.

37. Future plans:
- Opening 4-year UG Honours programme in Computer Science
- Starting add-on courses or certificate courses for arts students also.
- Starting some outreach and external activities for school students.
- Encouraging faculty/ Students to hands-on various computer technologies.
- Development of IT based projects with student contribution.
- Acceleration placement and advancement to higher education.
- Starting Incubation center with the help of Alumni.

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