

# DEPARTMENTAL PROFILE

## Department: Computer Science

Session 2022-23

### 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              | B.Sc(General)                 | 3-year   | HS or equivalent    | 107                          | 40                                    | 23                      | 4 | 27 |

### 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 |                | 4 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 (1 <sup>st</sup> 2 <sup>nd</sup> Y/3 <sup>rd</sup> 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 |
|--------|------------------------|-----------------------|----------------|-------------------------------|--------------------------|
|        | Hiralal Bhakat College | Computer Science      | Salman Khursed | State Medical Faculty College | Diploma in Radiology     |

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 |
|--------|---------|----------------|---------------------------|-------------------------------------------|------------------------------|------------------------|
| 1      | 2021-22 |                | 02                        | Rampurhat Super Speciality Hospital.      | Monthly Salary, Rs. 13000/-  | Hiralal Bhakat College |
|        |         |                |                           | HDB Financial Service at Rampurhat.       | Salary Package: Rs. 302268/- | Hiralal Bhakat College |

## 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 &amp; 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 |
|----------|-------------|--------------------------------------|--------------------------------------------|-------------------------------|--------------------|----------------------------|------------------------|
| <b>1</b> | <b>2023</b> | <b>State Level</b>                   | <b>Global Science for global wellbeing</b> | <b>Hiralal Bhakat College</b> | <b>Rs. 20000/-</b> | <b>28th February, 2023</b> | <b>111</b>             |

## 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 |
|-------------|---------------------------------|-------------|-----------------------------------------------------|---------------------------------------------------|-----------------|
| <b>2023</b> | <b>B.Sc (Gen)</b>               | <b>B.Sc</b> | <b>2</b>                                            | <b>1</b>                                          | <b>50%</b>      |

## 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. |
|----------------|----------------|---------------|---------------------------------------------------|------------------------------------------------------------|
| <b>UG</b>      | <b>B.Sc(G)</b> | <b>Sem-VI</b> | <b>03.08.2023</b>                                 | <b>17.10.2023</b>                                          |

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 |
|--------|----------------------|----------------------|---------------------------------------------------------------------------------|--------------------|-------------------|
| 1      | 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                                             |                                                                        |
|--------|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|
|        |                     |                                                                                                                                                                                                                                                                                                                                                                                                  |                                                     |                                       | No. Teacher                                                                                     | Student                                                                |
| 1      | 24-03-2023          | 1. Agnibina B.Ed<br>2. Gitanjali B.Ed College<br>3. Gitanjali Nursing College<br>4. Gitanjali Pharmacy College<br>5. Krishnapur B.Ed. College<br>6. Rangamati B.Ed. & D.EL.ED College<br>7. Rangamati Nursing College<br>8. Rangamati Pharmacy<br>9. SKM B.Ed. College<br>10. Tapaban Ashram B.Ed. College<br>11. Thakur Anukul Chandra Satsang Mission (B.Ed.)<br>12. Agnibina Pharmacy College | Faculty exchange: Depts English, Computer Science   | 5 Years From 24-03-2023 To 23-03-2028 | 1. 2<br>2. 2<br>3. 2<br>4. 2<br>5. 2<br>6. 2<br>7. 2<br>8. 2<br>9. 2<br>10. 2<br>11. 2<br>12. 2 | 77<br>95<br>95<br>104<br>65<br>87<br>114<br>98<br>75<br>80<br>76<br>50 |

### 31. Details of Infrastructural facilities

#### a) Library

| Sr No. | Year of purchase | Total budget of the Year (Thousand) | Expenditure incurred in Thousand | Name of Books                                                                                                                                                                                                                                                                                                                                             | Publisher                                                                                                         | Number of copies |
|--------|------------------|-------------------------------------|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------|
| 1      | 2022-23          | 16000                               | 16040                            | 1. ADVANCED INTERNET TECHNOLOGY AND E - COMMERCE<br>2. COMPUTER BASICS WITH OFFICE AUTOMATION<br>3. DATA STRUCTURES USING C<br>4. INTERNETWORKING WITH TCP/ IP<br>5. INTRODUCTION TO ALGORITHMS<br>6. JAVA :THE COMPLETE REFERENCE<br>7. MICROPROCESSOR ARCHITECTURE , PROGRAMMING AND APPLICATIONS WITH 8085<br>8. VISUAL BASIC 6 BOOK PROGRAMMING BLACK | DREAMTECH PRESS<br>OXFORD UNIVERSITY PRESS<br>PEARSON<br>PHI LEARNING<br>MCGRAW HILL<br>PENRAM<br>DREAMTECH PRESS | 40               |

#### 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       | Computer Sci       | SAWKAT ALI          | WB SVMCM                                     | --             | State Govt. | --       | --    |
| 2       | Computer Sci       | MUSTAFIZUR RAHAMAN  | WB SVMCM                                     | --             | State Govt. | --       | --    |
| 3       | Computer Sci       | ALI MURTOZA         | WB SVMCM                                     | --             | State Govt. | --       | --    |
| 4       | Computer Sci       | JUBAIDA SULTANA     | WB SVMCM                                     | --             | State Govt. | --       | --    |
| 5       | Computer Sci       | JASMINA KHATUN      | WB SVMCM                                     | --             | State Govt. | --       | --    |
| 6       | Computer Sci       | ABDUL MATIN         | WB SVMCM                                     | --             | State Govt. | --       | --    |
| 7       | Computer Sci       | NUR MAHAMMAD SEKH   | WB SVMCM                                     | --             | State Govt. | --       | --    |
| 8       | Computer Sci       | Samim Aktar         | WB 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 |
|--------|--------------------|-----------------------------------------------------------------|----------|-------------------------|---------------------------------|----------------------------|
|        |                    |                                                                 |          |                         |                                 |                            |

34. Teaching methods adopted to improve student learning-

- PowerPoint presentation
- Use of Video Clips
- 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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