Proforma for submission of proposal under the scheme

**MODERNISATION & REMOVAL OF OBSOLESCENCE**

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| **Name of the Institute** | Vidyalankar Institute of Technology | | |
| **Address** | Vidyalankar College Marg, Wadala ( E ) , Mumbai 400037 | | |
| **Contact details** | principal@vit.edu.in | 022-24161126 | 022-24161126 |
| **Permanent Id of the Institute** | 1-14068819 | | |
| **Application Id** |  | | |

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| **Department** | Department of Information Technology |
| **Lab to be funded** | Lab 11 ( Project Lab) Information Technology lab |
| **Current lab utilization** | Lab 11:  **Odd sem**  All open source Linux based practical’s are conducted in Lab 11  Big data and Cloud Computing  **Even sem**  C,C++,NS2 ,JAVA  **Number of students** :  Lab 11: 40  Overall Lab utilization : Less than as PC’S are not working properly,80 % |
| **Strength & Weakness of lab** | Strength   1. Availability of continuing education programs, short courses   Weakness   1. Hardware is not compatible with the latest software   (Ex. Hadoop , Cloud) |
| **Total cost of equipment in lab** | Give total cost of equipment available in lab |

**Major equipment available in the lab**

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| --- | --- | --- | --- | --- |
| **Name Of Lab** | **Name of equipment** | **Make and model** | **Cost in Rs.** | **Year purchased** |
| Lab 11 | Desktop | Lenovo Board- Mercury  Ram – 2GB  Processor-Intel E2140CPU @1.600GHz  HDD-80 to 160GB  Lenovo Monitor  Keyboard, Mouse - HP, Lenovo &Logitech  OS- Windows 7  Quantity-40 | 9,60,000 | 13-2-2012 |

**Technical Field of proposal :**

This laboratory will be utilized for development of following recent trends applications:

1. Open Source Lab
2. Programming Lab
3. Big Data Analytics
4. Cloud Computing

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**Title of proposal :** Set up a laboratory for Cloud Computing and Big Data

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**Abstract :**

To suffice transformation of an Institute from Teaching Institute to a Research Institute, creation of resources is one of the important parameter. The proposed lab aims to support students to gain expertise on tools like NS2, SDNs,WEKA, HADOOP / MAP REDUCECASTALIA ,FRAMEWORK etc. as well as multiplatform environment like MS windows , Linux , IOS.

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| The revised syllabus of Information Technology proposes two novel fields i.e. Big Data and Cloud Computing. The basic requirement to perform practical in any of the field is 8 GB RAM and quad core processor. The existing system is having a lower configuration than required. For smooth conduction of academic activities and to channelize the students and teachers to take up these areas for their projects and research work. |

**Objective :**

1. To help gain knowledge on the state of art works and tools used in the area of big data analytics, grid and cloud computing.
2. To foster the use Free and Open Source Software.
3. To improve industry-institute collaboration.
4. To encourage students of Institute to take up research work in this area.
5. To educate faculties, staffs, and students on latest open source Technology.

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**Project Impact -Expected outcome :**

1. Conduct of expert lectures on Big Data and Computational Intelligence for PG students and staff members.
2. Seamless conduction of academics
3. Innovative projects for the Institute
4. Quality research by Faculties and Students and Faculties.
5. Improving the students placements.
6. Educate faculties, staffs, and students on latest open source Technology.
7. Publish Technical reports and papers

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**Technical Consultancy / Revenue generation**

1. STTP / FDP can be organized .
2. Tie up with different online Examination can be done.
3. Value added courses for the students can be conducted.
4. Value added courses for students can be conducted.
5. Consultancy projects can be taken .

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**Budget Estimates – Non Recurring**

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| **Name of the Lab** | **Proposed equipment/s** | **Specifications** | **No of units** | **Cost in Rs.** | **Justification** |
| Lab 11  ( Big data and Cloud Computing Lab ,  Program lab)and  ( Open Source Lab) | Desktop | PC for Big data with the following specifications:  1)Intel i5 processor  2)Transcend Jet Ram DDR3  3) 8 G, Seagate  4) 1 TB SATA Internal Hard  5) Drive 18.5inch LCD Monitor | 20 | 1,120,000.00  (56,000 /- per unit ) | Since New subject like Big Data Analytics and Cloud Computing are part of Curriculum, we need to Design and Develop the Lab for it with latest Configuration as Big data Analytics requires high computing power . |
|  | **Total(NR)** |  |  | **NR 5,920,000.00** |  |

**Budget Estimates – Non Recurring**

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| **Name of Lab** | **Proposed equipment/s** | **Cost in Rs** |
| Lab 7, Lab 11 | Desktop PC | NR **5,920,000.00** |

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| **Budget Estimates –Recurring** | |  | |  |
| Sr. No. | Consumables & Contingencies | | Estimate for Year 1 (R1) | |
| 1 | ACER PS2 Mouse | | 20000.00 | |
| 2 | 250 GB SATA HDD | | 12750.00 | |
| 3 | 1 GB DDR2 RAM | | 24000.00 | |
|  | **Total** | | **56750.00** | |

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| **Payment disbursement schedule** |  |  |

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| Advance installment | | Total (Max 20 Lakhs) |
| NR | R1 | R=NR+R1 |
| **5,920,000.00** | 56750.00 | **5,976,750** |

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| **Details of earlier grants awarded to the Institute** |

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| Scheme | Name of the coordinator | Amt sanctioned | | Sanctioned letter details | Funds Utilisation position as on today | Utilisation Certificate details/ Reason for non- submission of Utilisation Certificate |
| NR | R |
| NA | NA | NA | NA | NA | NA | NA |

By signing this certificate, I/We undertake to

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| 🗹 | Abide by all the rules / regulations regarding utilization of amount that may be granted to the Institute. |
| 🗹 | Submit timely progress reports about grant utilization. |
| 🗹 | Submit utilization certificate duly authenticated by CA on/before project period is over. |
| 🗹 | Return full/partial unutilized grant amount to the Council. |

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| **Lab Incharge** | **Signature** |
| 1. Lab 5 : Prof Girish Wadhwa |  |
| 1. Lab 7 : Prof. Chintan Shah |  |
| 1. Lab 11 : Prof. Debarati Ghosal |  |
| 1. Lab CC : Prof. Anuja Gote |  |
| **Prepared By : Prof. Debarati Ghosal** |  |
| **Chief Academic Officer : Prof. Saurav Mitra** |  |
| **H.O.D INFT Department : Prof Menakshi Arya** |  |
|  |  |
| **Project forwarded to AICTE** | **Signature of Head of the Institution** |
| **Date :** | **Institute Seal** |