

**Erasmus+ Programme (ERASMUS)**

**Progress Report**

**Version 1.0**

**25 February 2021**

**IMPORTANT NOTICE**

**What is a progress report?**

Progress reports are deliverables which are sometimes requested at mid-term (or other crucial points in the project) if there is a long time-span without reporting.

The report (+ annexes) must be prepared (by all beneficiaries together) and uploaded on the Funding & Tenders Portal Grant Management System Continuous Reporting Deliverables screen.

 Progress reports should NOT be confused with periodic reports. Periodic reports are linked to payments, progress reports are not.

## COVER PAGE

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| --- | --- |
| **PROJECT** | |
| **Project number:** | 101129077 |
| **Project acronym:** | BIOMED5.0 |
| **Project name:** | Capacity Building in Biomedical Engineering Education for  Digital Transformation and Industry 4.0/5.0 Technologies |
| **Project starting date:** | 31/12/2023 |
| **Project duration:** | 36 |

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| **PERIOD COVERED**  cid:image001.png@01D0B99B.7C10A740 *Please note that this is only a progress report. The information in this report must also be included in the next periodic report/final report.* | |
| **Period covered** *(from last periodic report):* | from 01/12/2023 to 31/05/2025 |

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## 1. MILESTONES, DELIVERABLES AND CRITICAL RISKS

|  |  |
| --- | --- |
| **Deliverables and milestones (outputs/outcomes)** | **YES/NO** |
| We confirm that we updated the following Continuous Reporting screens:   * Deliverables * Milestones | YES |

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| --- | --- |
| **Critical risks** | **YES/NO** |
| We confirm that we updated the following Continuous Reporting screen:   * Critical risks | YES |

## 2. OVERVIEW OF THE PROGRESS and ACTIVITIES

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| **WORK PACKAGES** |

#### Work Package 1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Work package 1: Project Management and Quality Assurance** | | | | |
| **Activities**  *Report on the implementation status of the activities that were to be implemented during the period and explain deviations from the description of the action (DoA) in Annex 1 GA.* | | | | |
| Task No  (continuous numbering linked to WP) | Task name | Implemented?  (Yes/No/Partially) | Justification  (explain what was done and by whom; explain what was not done and why not; indicate how you intend to handle the situation and new timing; indicate if it was a one-off issue or how you intend to avoid similar issues in the future) | |
| T1.1 | Kick-off meeting and establishment of BIOMED5.0 Project Executive Committee |  |  | |
| T1.2 | QAP preparation and execution |  |  | |
| T1.3 | Collaboration with quality enhancement cells in Pakistani HEIs |  |  | |
| T1.4 | Risk assessment and mitigation planning and execution |  |  | |
| T1.5 | Project management plan |  |  | |
| T1.6 | Managing project budget and finances |  |  | |
| T1.7 | Conduct of Financial Audit |  |  | |
| T1.8 | Preparation of a Project Completion Report |  |  | |
| T1.9 | Closing out the project and conducting a post-project review |  |  | |
| Other issues  *Mention and explain unexpected events and adjustments that had to be made. Explain impact on other tasks, available resources and planning/timing.* | |  | | |
| **Milestones and deliverables (outputs/outcomes)** | | | | |
| See Deliverables screen. | | | |

#### Work Package 2

|  |  |  |  |  |
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| **Work package 2: Modernising Pakistani HEIs by revision and update of Biomedical Engineering curricula** | | | | |
| **Activities**  *Report on the implementation status of the activities that were to be implemented during the period and explain deviations from the description of the action (DoA) in Annex 1 GA.* | | | | |
| Task No  (continuous numbering linked to WP) | Task name | Implemented?  (Yes/No/Partially) | Justification  (explain what was done and by whom; explain what was not done and why not; indicate how you intend to handle the situation and new timing; indicate if it was a one-off issue or how you intend to avoid similar issues in the future) | |
| T2.1 | Development and revision of Programme Educational Objectives (PEOs) and Learning Outcomes (LOs) of BME UG and PG curricula in line with Industry 4.0/5.0 needs assessment |  |  | |
| T2.2 | Development of new modules on I4.0/5.0 technologies for bachelor in BME programme |  |  | |
| T2.3 | Development of new modules on I4.0/5.0 technologies for masters in BME programme |  |  | |
| T2.4 | Incorporating Industry 4.0 and 5.0 Technologies into existing modules in UG BME programme |  |  | |
| T2.5 | Incorporating Industry 4.0 and 5.0 Technologies into existing modules in PG BME programme |  |  | |
| T2.6 | Improving digital literacy by development of lifelong learning Open Online Courses (OOCs) for biomedical and healthcare professionals |  |  | |
| T2.7 | Approval of new and updated modules through PEC and relevant bodies at HEI. |  |  | |
| T2.8 | Pilot Implementation of Revised BME curricula and short courses and feedback |  |  | |
| Other issues  *Mention and explain unexpected events and adjustments that had to be made. Explain impact on other tasks, available resources and planning/timing.* | |  | | |
| **Milestones and deliverables (outputs/outcomes)** | | | | |
| See Deliverables screen. | | | |

#### Work Package 3

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| **Work package 3: Capacity building of partner HEIs by upgrading teaching lab facilities and implementing virtual reality sessions** | | | | |
| **Activities**  *Report on the implementation status of the activities that were to be implemented during the period and explain deviations from the description of the action (DoA) in Annex 1 GA.* | | | | |
| Task No  (continuous numbering linked to WP) | Task name | Implemented?  (Yes/No/Partially) | Justification  (explain what was done and by whom; explain what was not done and why not; indicate how you intend to handle the situation and new timing; indicate if it was a one-off issue or how you intend to avoid similar issues in the future) | |
| T3.1 | Establishment of BIOMED5.0 LWG |  |  | |
| T3.2 | Revision of PEOs and LOs to update teaching laboratory session in UG and PG programmes |  |  | |
| T3.3 | Designing of new lab manuals |  |  | |
| T3.4 | Procurement of equipment for upgradation of lab facilities |  |  | |
| T3.5 | Reinforcement learning of digital transformation technologies via laboratory sessions |  |  | |
| T3.6 | Development of VR lab sessions |  |  | |
| T3.7 | Development of AR/MR lab sessions |  |  | |
| T3.8 | Approvals, pilot implementation and students feedback |  |  | |
| Other issues  *Mention and explain unexpected events and adjustments that had to be made. Explain impact on other tasks, available resources and planning/timing.* | |  | | |
| **Milestones and deliverables (outputs/outcomes)** | | | | |
| See Deliverables screen. | | | |

#### Work Package

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| **Work package 4: Centre of Excellence in Biomedical Engineering** | | | | |
| **Activities**  *Report on the implementation status of the activities that were to be implemented during the period and explain deviations from the description of the action (DoA) in Annex 1 GA.* | | | | |
| Task No  (continuous numbering linked to WP) | Task name | Implemented?  (Yes/No/Partially) | Justification  (explain what was done and by whom; explain what was not done and why not; indicate how you intend to handle the situation and new timing; indicate if it was a one-off issue or how you intend to avoid similar issues in the future) | |
| T4.1 | Establishment of CEBME |  |  | |
| T4.2 | Pan-Institutional Biomedical Engineering Digital Fabrication Laboratory (Fab Lab) |  |  | |
| T4.3 | Entrepreneur Mentorship Programme |  |  | |
| T4.4 | Academic staff training in Innovative Pedagogies |  |  | |
| T4.5 | Academic staff training in I4.0 technologies |  |  | |
| T4.6 | Academic staff training in TUCN |  |  | |
| T4.7 | Promoting wider impact and human resource development in Pakistani HEIs through reciprocal training programs |  |  | |
| T4.8 | Laboratory staff trainings |  |  | |
| T4.9 | Students training on Industry 4.0/5.0 technologies |  |  | |
| T4.10 | Students training on transformative skills |  |  | |
| T4.11 | Student training on mental health and well- being |  |  | |
| T4.12 | Development of digital platform for Mental Health and Well-Being |  |  | |
| T4.13 | Industry 4.0/5.0 Technology Hackathons |  |  | |
| Other issues  *Mention and explain unexpected events and adjustments that had to be made. Explain impact on other tasks, available resources and planning/timing.* | |  | | |
| **Milestones and deliverables (outputs/outcomes)** | | | | |
| See Deliverables screen. | | | |

#### Work Package 5

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| **Work package 5: Project Impact and Outreach: Dissemination, Communication and Exploitation** | | | | |
| **Activities**  *Report on the implementation status of the activities that were to be implemented during the period and explain deviations from the description of the action (DoA) in Annex 1 GA.* | | | | |
| Task No  (continuous numbering linked to WP) | Task name | Implemented?  (Yes/No/Partially) | Justification  (explain what was done and by whom; explain what was not done and why not; indicate how you intend to handle the situation and new timing; indicate if it was a one-off issue or how you intend to avoid similar issues in the future) | |
| T5.1 | Dissémination, Communication and Exploitation Plan |  |  | |
| T5.2 | Copyright policy and intellectual property management |  |  | |
| T5.3 | Dissemination and Communication using Digital Media |  |  | |
| T5.4 | Digital transformation Societal Impact Champion for Education and Public Engagement activities |  |  | |
| T5.5 | BIOMED5.0 Annual Conference and Stakeholder Engagement |  |  | |
| T5.6 | Organisation of Master Classes in Industry 4.0/5.0 and Digital Transformation |  |  | |
| T5.7 | Participation in International Conferences |  |  | |
| T5.8 | STEM outreach programme |  |  | |
| T5.9 | Impact Assessment and Case Studies |  |  | |
| T5.10 | Sustainability Plan |  |  | |
| Other issues  *Mention and explain unexpected events and adjustments that had to be made. Explain impact on other tasks, available resources and planning/timing.* | |  | | |
| **Milestones and deliverables (outputs/outcomes)** | | | | |
| See Deliverables screen. | | | |

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| **Timetable (projects of more than 2 years)**  *Report on deviations from Annex 1 of the Grant Agreement.*  *Fill in the planned implementation in beige and the deviations in red. Adapt and repeat lines/columns as necessary.* | | | | | | | | | | | | | | | | | | | | | | | |
| **Starting date:** |  | | | | | | | | | | | | | | | | | | | | | | |
| **ACTIVITY** | **YEAR 1** | | | | | | | | | | | | **YEAR 2** | | | | | | **YEAR 3** | | | | |
| **Q 1** | | | **Q 2** | | | **Q 3** | | | **Q 4** | | | **Q 1** | | | **Q 2** | **Q 3** | **Q 4** | **Q 1** | **Q 2** | | **Q 3** | **Q 4** |
|  |  | | |  | | |  | | |  | | |  | | |  |  |  |  |  | |  |  |
| **Task 1.1 - …** |  |  |  | |  |  | |  |  | |  |  | |  |  | | | | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Task 1.2 - …** |  |  |  | |  |  | |  |  | |  |  | |  |  | | | | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Task …** |  |  |  | |  |  | |  |  | |  |  | |  |  | | | | | |  | | |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Timetable (projects of only 12 months)**  *Report on deviations from Annex 1 of the Grant Agreement.*  *Fill in the planned implementation in beige and the deviations in red. Adapt and repeat lines/columns as necessary.* | | | | | | | | | | | | |
| **Starting date:** |  | | | | | | | | | | | |
| **ACTIVITY** | **MONTHS** | | | | | | | | | | | |
| **M 1** | **M 2** | **M 3** | **M 4** | **M 5** | **M 6** | **M 7** | **M 8** | **M 9** | **M 10** | **M 11** | **M 12** |
| **Task 1.1 - …** |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Task 1.2 - …** |  |  |  |  |  |  |  |  |  |  |  |  |
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| **Task …** |  |  |  |  |  |  |  |  |  |  |  |  |
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## 3. BUDGET IMPLEMENTATION *(n/a for Lump Sum Grants)*

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| **Overall budget implementation —****Use of resources** | **YES/NO** |
| We confirm that the overall budget consumption is in line with the advancement of the activities.  *If there are major deviations, identify them and explain the reasons why.* |  |
|  |

## ANNEXES

**LIST OF ANNEXES**

n/a

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| **HISTORY OF CHANGES** | | |
| VERSION | PUBLICATION DATE | CHANGE |
| 1.0 | 25.02.2021 | Initial version (new MFF) |
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