



EUROPEAN EDUCATION AND CULTURE EXECUTIVE AGENCY (EACEA)

EACEA.A – Erasmus+, EU Solidarity Corps
A.4 – International Capacity Building

GRANT AGREEMENT

Project 101082866 — ACTIVE

PREAMBLE

This **Agreement** ('the Agreement') is **between** the following parties:

on the one part,

the **European Education and Culture Executive Agency (EACEA)** ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and

on the other part,

1. 'the coordinator':

UNIVERSIDAD DE MALAGA (UMA), PIC 999898311, established in AVDA CERVANTES, NUM. 2, MALAGA 29016, Spain,

and the following other beneficiaries, if they sign their 'accession form' (see Annex 3 and Article 40):

2. **SIR SYED UNIVERSITY OF ENGINEERING AND TECHNOLOGY (SSUET)**, PIC 915845289, established in MAIN UNIVERSITY ROAD BLOCK 5 GULSHAN E IQBAL, KARACHI 75300, Pakistan,

3. **MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY (MUET)**, PIC 948276657, established in MAIN ADMINISTRATIVE BUILDING AQ AFGHAN ROAD SINDH, JAMSHORO 76062, Pakistan,

4. **UNIVERSITATEA POLITEHNICA DIN BUCURESTI (UPB)**, PIC 999842342, established in SPLAIUL INDEPENDENTEI 313 SECT 6, BUCHAREST 060042, Romania,

5. **MUNSTER TECHNOLOGICAL UNIVERSITY (MTU)**, PIC 892106673, established in ROSSA AVENUE BISHOPSTOWN, CORK T12 P928, Ireland,

6. **BALUCHISTAN UNIVERSITY OF INFORMATION TECHNOLOGY ENGINEERING AND MANAGEMENT SCIENCES - BUIITEMS (BUIITEMS)**, PIC 902714884, established in AIRPORT ROAD BALELI TAKATU CAMPUS, QUETTA 87300, Pakistan,

7. NATIONAL UNIVERSITY OF TECHNOLOGY (NUTECH), PIC 884673951, established in MAIN IJP ROAD, SECTOR I-12, ISLAMABAD 44000, Pakistan,

Unless otherwise specified, references to ‘beneficiary’ or ‘beneficiaries’ include the coordinator and affiliated entities (if any).

If only one beneficiary signs the grant agreement (‘mono-beneficiary grant’), all provisions referring to the ‘coordinator’ or the ‘beneficiaries’ will be considered — mutatis mutandis — as referring to the beneficiary.

The parties referred to above have agreed to enter into the Agreement.

By signing the Agreement and the accession forms, the beneficiaries accept the grant and agree to implement the action under their own responsibility and in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

The Agreement is composed of:

Preamble

Terms and Conditions (including Data Sheet)

Annex 1 Description of the action¹

Annex 2 Estimated budget for the action

Annex 3 Accession forms (if applicable)²

Annex 3a Declaration on joint and several liability of affiliated entities (if applicable)³

Annex 4 Model for the financial statements

Annex 5 Specific rules (if applicable)

¹ Template published on [Portal Reference Documents](#).

² Template published on [Portal Reference Documents](#).

³ Template published on [Portal Reference Documents](#).

TERMS AND CONDITIONS

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DATA SHEET

1. General data

Project summary:

Project summary
<p>ICT AppliCaTions for sustainable enVironmental protEction (ACTIVE) project is focused on capacity building by training multidisciplinary engineers on using information and communication technologies (ICT) for mitigating the environmental and climatic issues faced by the urban and rural areas of Pakistan. Many universities offer bachelor and master degrees on ICT engineering topics or environmental sciences, but using different approaches: ICT engineers are trained for the design and implementation of ICT technologies with little or none knowledge of environmental aspects, so it's difficult for them to deal with this kind of applications. On the other hand, environmental sciences and engineering degrees are focused on those topics, with a basic use of ICT tools, but digital technologies could have a higher and disruptive impact on environment management, requiring more advanced knowledge and skills in ICT. The main objective is to address this particular need, with capacity building activities to train highly qualified ICT engineers with a good background on environmental science. This can be achieved with partner universities by offering a master degree and expert courses on different promising technologies (machine learning, artificial intelligence, remote sensing, IoT and sensor networks, wireless communication, embedded systems, etc.) applied to environmental issues and climate change in Pakistan. The four university partners in Pakistan are geographically located in different areas of the country, facing different problems: from air pollution in big cities (Karachi) to water use at Indus river, Bolochistan agriculture needs or Rawalpindi location, near mountains at north of the country, which provides a unique collaboration opportunity in areas with different degree of economic development. Also, we will propose to create four research centres with focus in local problems to offer practical training and to contribute to mitigate environmental challenges.</p>

Keywords:

- Innovation in learning, teaching and assessment practices supported by digital technologies
- Curriculum design and development
- Environmental sustainability

Project number: 101082866

Project name: ICT Applications for Sustainable Environmental Protection

Project acronym: ACTIVE

Call: ERASMUS-EDU-2022-CBHE

Topic: ERASMUS-EDU-2022-CBHE-STRAND-2

Type of action: ERASMUS Lump Sum Grants

Granting authority: European Education and Culture Executive Agency

Grant managed through EU Funding & Tenders Portal: Yes (eGrants)

Project starting date: first day of the month following the entry into force date

Project end date: starting date + months of duration

Project duration: 36 months

Consortium agreement: Yes

2. Participants

List of participants:

N°	Role	Short name	Legal name	Ctry	PIC	Max grant amount
1	COO	UMA	UNIVERSIDAD DE MALAGA	ES	999898311	112 450.00
2	BEN	SSUET	SIR SYED UNIVERSITY OF ENGINEERINGAND TECHNOLOGY	PK	915845289	104 639.00
3	BEN	MUET	MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY	PK	948276657	104 639.00

N°	Role	Short name	Legal name	Ctry	PIC	Max grant amount
4	BEN	UPB	UNIVERSITATEA POLITEHNICA DIN BUCURESTI	RO	999842342	84 250.00
5	BEN	MTU	MUNSTER TECHNOLOGICAL UNIVERSITY	IE	892106673	103 746.00
6	BEN	BUIITEMS	BALUCHISTAN UNIVERSITY OF INFORMATION TECHNOLOGY ENGINEERING AND MANAGEMENT SCIENCES - BUIITEMS	PK	902714884	104 639.00
7	BEN	NUTECH	NATIONAL UNIVERSITY OF TECHNOLOGY	PK	884673951	104 639.00
8	AP	Alfoze	Alfoze Technologies	PK	887756902	0.00
9	AP	PEC	Pakistan Engineering Council	PK	946702638	0.00
Total						719 002.00

Coordinator:

– UNIVERSIDAD DE MALAGA (UMA)

3. Grant**Maximum grant amount, total estimated eligible costs and contributions and funding rate:**

Maximum grant amount (Annex 2)	Maximum grant amount (award decision)
719 002.00	719 002.00

Grant form: Lump Sum

Grant mode: Action grant

Budget categories/activity types: Lump sum contributions

Cost eligibility options: n/a

Budget flexibility: No

4. Reporting, payments and recoveries**4.1 Continuous reporting** (art 21)

Deliverables: see Funding & Tenders Portal Continuous Reporting tool

4.2 Periodic reporting and payments

Reporting and payment schedule (art 21, 22):

Reporting					Payments	
Reporting periods			Type	Deadline	Type	Deadline (time to pay)
RP No	Month from	Month to				
					Initial prefinancing	30 days from entry into force/ financial guarantee (if required) – whichever is the latest
1	1	18	Additional prefinancing report	60 days after end of reporting period	Additional prefinancing	60 days from receiving additional

Reporting					Payments	
Reporting periods			Type	Deadline	Type	Deadline (time to pay)
RP No	Month from	Month to				
						prefinancing report/ financial guarantee (if required) – whichever is the latest
2	19	36	Periodic report	60 days after end of reporting period	Final payment	90 days from receiving periodic report

Prefinancing payments and guarantees:

Prefinancing payment		Prefinancing guarantee		
Type	Amount	Guarantee amount	Division per participant	
Prefinancing 1 (initial)	503 301.40	n/a	1 - UMA	n/a
			2 - SSUET	n/a
			3 - MUET	n/a
			4 - UPB	n/a
			5 - MTU	n/a
			6 - BUTTEMS	n/a
			7 - NUTECH	n/a
Prefinancing 2 (additional)	143 800.40	n/a	1 - UMA	n/a
			2 - SSUET	n/a
			3 - MUET	n/a
			4 - UPB	n/a
			5 - MTU	n/a
			6 - BUTTEMS	n/a
			7 - NUTECH	n/a

Reporting and payment modalities (art 21, 22):

Mutual Insurance Mechanism (MIM): No

Restrictions on distribution of initial prefinancing: The prefinancing may be distributed only if the minimum number of beneficiaries set out in the call conditions (if any) have acceded to the Agreement and only to beneficiaries that have acceded.

Interim payment ceiling (if any): 100% of the maximum grant amount

No-profit rule: n/a

Late payment interest: ECB + 3.5%

Bank account for payments:

ES6521030146930030028652

Conversion into euros: n/a

Reporting language: Language of the Agreement

4.3 Certificates (art 24): n/a

4.4 Recoveries (art 22)

First-line liability for recoveries:

Beneficiary termination: Beneficiary concerned

Final payment: Coordinator

After final payment: Beneficiary concerned

Joint and several liability for enforced recoveries (in case of non-payment):

Limited joint and several liability of other beneficiaries — up to the maximum grant amount of the beneficiary

Joint and several liability of affiliated entities — n/a

5. Consequences of non-compliance, applicable law & dispute settlement forum

Applicable law (art 43):

Standard applicable law regime: EU law + law of Belgium

Dispute settlement forum (art 43):

Standard dispute settlement forum:

EU beneficiaries: EU General Court + EU Court of Justice (on appeal)

Non-EU beneficiaries: Courts of Brussels, Belgium (unless an international agreement provides for the enforceability of EU court judgements)

6. Other

Specific rules (Annex 5): Yes

Standard time-limits after project end:

Confidentiality (for X years after final payment): 5

Record-keeping (for X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Reviews (up to X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Audits (up to X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Extension of findings from other grants to this grant (no later than X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

Impact evaluation (up to X years after final payment): 5 (or 3 for grants of not more than EUR 60 000)

CHAPTER 1 GENERAL

ARTICLE 1 — SUBJECT OF THE AGREEMENT

This Agreement sets out the rights and obligations and terms and conditions applicable to the grant awarded for the implementation of the action set out in Chapter 2.

ARTICLE 2 — DEFINITIONS

For the purpose of this Agreement, the following definitions apply:

Actions — The project which is being funded in the context of this Agreement.

Grant — The grant awarded in the context of this Agreement.

EU grants — Grants awarded by EU institutions, bodies, offices or agencies (including EU executive agencies, EU regulatory agencies, EDA, joint undertakings, etc.).

Participants — Entities participating in the action as beneficiaries, affiliated entities, associated partners, third parties giving in-kind contributions, subcontractors or recipients of financial support to third parties.

Beneficiaries (BEN) — The signatories of this Agreement (either directly or through an accession form).

Affiliated entities (AE) — Entities affiliated to a beneficiary within the meaning of Article 187 of EU Financial Regulation 2018/1046⁴ which participate in the action with similar rights and obligations as the beneficiaries (obligation to implement action tasks and right to charge costs and claim contributions).

Associated partners (AP) — Entities which participate in the action, but without the right to charge costs or claim contributions.

Purchases — Contracts for goods, works or services needed to carry out the action (e.g. equipment, consumables and supplies) but which are not part of the action tasks (see Annex 1).

Subcontracting — Contracts for goods, works or services that are part of the action tasks (see Annex 1).

In-kind contributions — In-kind contributions within the meaning of Article 2(36) of EU Financial

⁴ For the definition, see Article 187 Regulation (EU, Euratom) 2018/1046 of the European Parliament and of the Council of 18 July 2018 on the financial rules applicable to the general budget of the Union, amending Regulations (EU) No 1296/2013, (EU) No 1301/2013, (EU) No 1303/2013, (EU) No 1304/2013, (EU) No 1309/2013, (EU) No 1316/2013, (EU) No 223/2014, (EU) No 283/2014, and Decision No 541/2014/EU and repealing Regulation (EU, Euratom) No 966/2012 ('EU Financial Regulation') (OJ L 193, 30.7.2018, p. 1): "**affiliated entities** [are]:

- (a) entities that form a sole beneficiary [(i.e. where an entity is formed of several entities that satisfy the criteria for being awarded a grant, including where the entity is specifically established for the purpose of implementing an action to be financed by a grant)];
- (b) entities that satisfy the eligibility criteria and that do not fall within one of the situations referred to in Article 136(1) and 141(1) and that have a link with the beneficiary, in particular a legal or capital link, which is neither limited to the action nor established for the sole purpose of its implementation".

Regulation 2018/1046, i.e. non-financial resources made available free of charge by third parties.

Fraud — Fraud within the meaning of Article 3 of EU Directive 2017/1371⁵ and Article 1 of the Convention on the protection of the European Communities' financial interests, drawn up by the Council Act of 26 July 1995⁶, as well as any other wrongful or criminal deception intended to result in financial or personal gain.

Irregularities — Any type of breach (regulatory or contractual) which could impact the EU financial interests, including irregularities within the meaning of Article 1(2) of EU Regulation 2988/95⁷.

Grave professional misconduct — Any type of unacceptable or improper behaviour in exercising one's profession, especially by employees, including grave professional misconduct within the meaning of Article 136(1)(c) of EU Financial Regulation 2018/1046.

Applicable EU, international and national law — Any legal acts or other (binding or non-binding) rules and guidance in the area concerned.

Portal — EU Funding & Tenders Portal; electronic portal and exchange system managed by the European Commission and used by itself and other EU institutions, bodies, offices or agencies for the management of their funding programmes (grants, procurements, prizes, etc.).

CHAPTER 2 ACTION

ARTICLE 3 — ACTION

The grant is awarded for the action **101082866 — ACTIVE** ('action'), as described in Annex 1.

ARTICLE 4 — DURATION AND STARTING DATE

The duration and the starting date of the action are set out in the Data Sheet (see Point 1).

CHAPTER 3 GRANT

ARTICLE 5 — GRANT

5.1 Form of grant

⁵ Directive (EU) 2017/1371 of the European Parliament and of the Council of 5 July 2017 on the fight against fraud to the Union's financial interests by means of criminal law (OJ L 198, 28.7.2017, p. 29).

⁶ OJ C 316, 27.11.1995, p. 48.

⁷ Council Regulation (EC, Euratom) No 2988/95 of 18 December 1995 on the protection of the European Communities financial interests (OJ L 312, 23.12.1995, p. 1).

The grant is an action grant⁸ which takes the form of a lump sum grant for the completion of work packages.

5.2 Maximum grant amount

The maximum grant amount is set out in the Data Sheet (see Point 3) and in the estimated budget (Annex 2).

5.3 Funding rate

Not applicable

5.4 Estimated budget, budget categories and forms of funding

The estimated budget for the action (lump sum breakdown) is set out in Annex 2.

It contains the estimated eligible contributions for the action (lump sum contributions), broken down by participant and work package.

Annex 2 also shows the types of contributions (forms of funding)⁹ to be used for each work package.

5.5 Budget flexibility

Budget flexibility does not apply; changes to the estimated budget (lump sum breakdown) always require an amendment (see Article 39).

Amendments for transfers between *work packages* are moreover possible only if:

- the work packages concerned are not already completed (and declared in a financial statement) and
- the transfers are justified by the technical implementation of the action.

ARTICLE 6 — ELIGIBLE AND INELIGIBLE CONTRIBUTIONS

6.1 and 6.2 General and specific eligibility conditions

Lump sum contributions are eligible ('eligible contributions'), if:

- (a) they are set out in Annex 2 and
- (b) the work packages are completed and the work is properly implemented by the beneficiaries and/or the results are achieved, in accordance with Annex 1 and during in the period set out in Article 4 (with the exception of work/results relating to the submission of the final periodic report, which may be achieved afterwards; see Article 21)

They will be calculated on the basis of the amounts set out in Annex 2.

⁸ For the definition, see Article 180(2)(a) EU Financial Regulation 2018/1046: '**action grant**' means an EU grant to finance "an action intended to help achieve a Union policy objective".

⁹ See Article 125 EU Financial Regulation 2018/1046.

6.3 Ineligible contributions

‘Ineligible contributions’ are:

- (a) lump sum contributions that do not comply with the conditions set out above (see Article 6.1 and 6.2)
- (b) lump sum contributions for activities already funded under other EU grants (or grants awarded by an EU Member State, non-EU country or other body implementing the EU budget), except for the following case:
 - (i) Synergy actions: not applicable
- (c) other:
 - (i) country restrictions for eligible costs: not applicable.

6.4 Consequences of non-compliance

If a beneficiary declares lump sum contributions that are ineligible, they will be rejected (see Article 27).

This may also lead to other measures described in Chapter 5.

CHAPTER 4 GRANT IMPLEMENTATION

SECTION 1 CONSORTIUM: BENEFICIARIES, AFFILIATED ENTITIES AND OTHER PARTICIPANTS

ARTICLE 7 — BENEFICIARIES

The beneficiaries, as signatories of the Agreement, are fully responsible towards the granting authority for implementing it and for complying with all its obligations.

They must implement the Agreement to their best abilities, in good faith and in accordance with all the obligations and terms and conditions it sets out.

They must have the appropriate resources to implement the action and implement the action under their own responsibility and in accordance with Article 11. If they rely on affiliated entities or other participants (see Articles 8 and 9), they retain sole responsibility towards the granting authority and the other beneficiaries.

They are jointly responsible for the *technical* implementation of the action. If one of the beneficiaries fails to implement their part of the action, the other beneficiaries must ensure that this part is implemented by someone else (without being entitled to an increase of the maximum grant amount and subject to an amendment; see Article 39). The *financial* responsibility of each beneficiary in case of recoveries is governed by Article 22.

The beneficiaries (and their action) must remain eligible under the EU programme funding the grant

for the entire duration of the action. Lump sum contributions will be eligible only as long as the beneficiary and the action are eligible.

The **internal roles and responsibilities** of the beneficiaries are divided as follows:

(a) Each beneficiary must:

- (i) keep information stored in the Portal Participant Register up to date (see Article 19)
- (ii) inform the granting authority (and the other beneficiaries) immediately of any events or circumstances likely to affect significantly or delay the implementation of the action (see Article 19)
- (iii) submit to the coordinator in good time:
 - the prefinancing guarantees (if required; see Article 23)
 - the financial statements and certificates on the financial statements (CFS): not applicable
 - the contribution to the deliverables and technical reports (see Article 21)
 - any other documents or information required by the granting authority under the Agreement
- (iv) submit via the Portal data and information related to the participation of their affiliated entities.

(b) The coordinator must:

- (i) monitor that the action is implemented properly (see Article 11)
- (ii) act as the intermediary for all communications between the consortium and the granting authority, unless the Agreement or granting authority specifies otherwise, and in particular:
 - submit the prefinancing guarantees to the granting authority (if any)
 - request and review any documents or information required and verify their quality and completeness before passing them on to the granting authority
 - submit the deliverables and reports to the granting authority
 - inform the granting authority about the payments made to the other beneficiaries (report on the distribution of payments; if required, see Articles 22 and 32)
- (iii) distribute the payments received from the granting authority to the other beneficiaries without unjustified delay (see Article 22).

The coordinator may not delegate or subcontract the above-mentioned tasks to any other beneficiary or third party (including affiliated entities).

However, coordinators which are public bodies may delegate the tasks set out in Point (b)(ii) last

indent and (iii) above to entities with ‘authorisation to administer’ which they have created or which are controlled by or affiliated to them. In this case, the coordinator retains sole responsibility for the payments and for compliance with the obligations under the Agreement.

Moreover, coordinators which are ‘sole beneficiaries’¹⁰ (or similar, such as European research infrastructure consortia (ERICs)) may delegate the tasks set out in Point (b)(i) to (iii) above to one of their members. The coordinator retains sole responsibility for compliance with the obligations under the Agreement.

The beneficiaries must have **internal arrangements** regarding their operation and co-ordination, to ensure that the action is implemented properly.

If required by the granting authority (see Data Sheet, Point 1), these arrangements must be set out in a written **consortium agreement** between the beneficiaries, covering for instance:

- the internal organisation of the consortium
- the management of access to the Portal
- different distribution keys for the payments and financial responsibilities in case of recoveries (if any)
- additional rules on rights and obligations related to background and results (see Article 16)
- settlement of internal disputes
- liability, indemnification and confidentiality arrangements between the beneficiaries.

The internal arrangements must not contain any provision contrary to this Agreement.

ARTICLE 8 — AFFILIATED ENTITIES

Not applicable

ARTICLE 9 — OTHER PARTICIPANTS INVOLVED IN THE ACTION

9.1 Associated partners

The following entities which cooperate with a beneficiary will participate in the action as ‘associated partners’:

- **Alfoze Technologies (Alfoze)**, PIC 887756902
- **Pakistan Engineering Council (PEC)**, PIC 946702638

Associated partners must implement the action tasks attributed to them in Annex 1 in accordance with Article 11. They may not charge contributions to the action (no lump sum contributions) and the costs for their tasks are not eligible (may not be included in the estimated budget in Annex 2).

¹⁰ For the definition, see Article 187(2) EU Financial Regulation 2018/1046: “Where several entities satisfy the criteria for being awarded a grant and together form one entity, that entity may be treated as the **sole beneficiary**, including where it is specifically established for the purpose of implementing the action financed by the grant.”

The tasks must be set out in Annex 1.

The beneficiaries must ensure that their contractual obligations under Articles 11 (proper implementation), 12 (conflict of interests), 13 (confidentiality and security), 14 (ethics), 17.2 (visibility), 18 (specific rules for carrying out action), 19 (information) and 20 (record-keeping) also apply to the associated partners.

The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the associated partners.

9.2 Third parties giving in-kind contributions to the action

Other third parties may give in-kind contributions to the action (i.e. personnel, equipment, other goods, works and services, etc. which are free-of-charge), if necessary for the implementation.

Third parties giving in-kind contributions do not implement any action tasks. They may not charge contributions to the action (no lump sum contributions) and the costs for the in-kind contributions are not eligible (may not be included in the estimated budget in Annex 2).

The third parties and their in-kind contributions should be set out in Annex 1.

9.3 Subcontractors

Subcontractors may participate in the action, if necessary for the implementation.

Subcontractors must implement their action tasks in accordance with Article 11. The beneficiaries' costs for subcontracting are considered entirely covered by the lump sum contributions for implementing the work packages (irrespective of the actual subcontracting costs incurred, if any).

The beneficiaries must ensure that their contractual obligations under Articles 11 (proper implementation), 12 (conflict of interest), 13 (confidentiality and security), 14 (ethics), 17.2 (visibility), 18 (specific rules for carrying out action), 19 (information) and 20 (record-keeping) also apply to the subcontractors.

The beneficiaries must ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the subcontractors.

9.4 Recipients of financial support to third parties

If the action includes providing financial support to third parties (e.g. grants, prizes or similar forms of support), the beneficiaries must ensure that their contractual obligations under Articles 12 (conflict of interest), 13 (confidentiality and security), 14 (ethics), 17.2 (visibility), 18 (specific rules for carrying out action), 19 (information) and 20 (record-keeping) also apply to the third parties receiving the support (recipients).

The beneficiaries must also ensure that the bodies mentioned in Article 25 (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.) can exercise their rights also towards the recipients.

ARTICLE 10 — PARTICIPANTS WITH SPECIAL STATUS

10.1 Non-EU participants

Participants which are established in a non-EU country (if any) undertake to comply with their obligations under the Agreement and:

- to respect general principles (including fundamental rights, values and ethical principles, environmental and labour standards, rules on classified information, intellectual property rights, visibility of funding and protection of personal data)
- for the submission of certificates under Article 24: use qualified external auditors which are independent and comply with comparable standards as those set out in EU Directive 2006/43/EC¹¹
- for the controls under Article 25: allow for checks, reviews, audits and investigations (including on-the-spot checks, visits and inspections) by the bodies mentioned in that Article (e.g. granting authority, OLAF, Court of Auditors (ECA), etc.).

Special rules on dispute settlement apply (see Data Sheet, Point 5).

10.2 Participants which are international organisations

Participants which are international organisations (IOs; if any) undertake to comply with their obligations under the Agreement and:

- to respect general principles (including fundamental rights, values and ethical principles, environmental and labour standards, rules on classified information, intellectual property rights, visibility of funding and protection of personal data)
- for the submission of certificates under Article 24: to use either independent public officers or external auditors which comply with comparable standards as those set out in EU Directive 2006/43/EC
- for the controls under Article 25: to allow for the checks, reviews, audits and investigations by the bodies mentioned in that Article, taking into account the specific agreements concluded by them and the EU (if any).

For such participants, nothing in the Agreement will be interpreted as a waiver of their privileges or immunities, as accorded by their constituent documents or international law.

Special rules on applicable law and dispute settlement apply (see Article 43 and Data Sheet, Point 5).

10.3 Pillar-assessed participants

Pillar-assessed participants (if any) may rely on their own systems, rules and procedures, in so far as they have been positively assessed and do not call into question the decision awarding the grant or breach the principle of equal treatment of applicants or beneficiaries.

‘Pillar-assessment’ means a review by the European Commission on the systems, rules and procedures which participants use for managing EU grants (in particular internal control system, accounting system, external audits, financing of third parties, rules on recovery and exclusion, information on recipients and protection of personal data; see Article 154 EU Financial Regulation 2018/1046).

¹¹ Directive 2006/43/EC of the European Parliament and of the Council of 17 May 2006 on statutory audits of annual accounts and consolidated accounts or similar national regulations (OJ L 157, 9.6.2006, p. 87).

The main objective is to publicize the project's aim, objectives, progress, successes and outcomes as far as possible, raise awareness across the field of Higher Education about capacity building to overcome Environmental Challenges of Pakistan (by introducing new curricula and interactive trainings on ICT Based Environmental Development & Innovation and laboratory facilities at Partner Institutions) using five strategies – Paper, Multimedia, Social Media, Event and Positive Projection – that have been identified and different tools will be developed and delivered within the framework of each strategy (i.e. Project website, social media platforms, Videos, Short Documentaries, Branding Materials, brochures, papers, newsletters, magazines, participation to thematic conferences, Literacy trainings etc.). They will also ensure effective dissemination both in Asia and in the EU. However, the target will be to take project to Global Level. A more detailed description of activities is presented in WP5 section.

3.3 Sustainability and continuation

As the main focus of the project is to address the negative impacts of Climate Change in Bio diversified Pakistan which will be achieved by smooth execution of very detailed work packages.

A Comprehensive Project Sustainability and Continuation Plan along with Dissemination and Visibility Plan will be developed to maximize the outcome of the project activities on the immediate participants and wider audience during the project duration and beyond its completion. The plan will also ensure the sustainability of the project and its outcomes after the completion of the funding period. Many Awareness and Literacy Training Programs will be conducted. The Higher Education Institutions will use their experience of identifying and targeting beneficiaries to ensure the dissemination activities are effective. These strategies will extend the impact of project results beyond the project duration.

For the sustainability and continuation of the project, all stakeholders will sign official documents to remain part of the initiative after accomplishment of its all-specific objectives by means of EU funding. All stakeholders including the Associated Partners are very much committed to ensure the sustainability and continuation of the project for which the support from the following entities is already committed. However, the official documents will be signed at the early stage of the project.

The entities are:

- All Partner HEIs
- Support from Regulatory bodies at local level especially the support from Pakistan Engineering Council
- Support from the local Industry especially from our Associate Partner Alfoze Technologies
- Support from NGOs
- Support from Local Media
- Support from social media

Above mentioned entities will provide all required resources mandatory for the sustainability and continuation of the project.

4. WORK PLAN, WORK PACKAGES, TIMING AND SUBCONTRACTING

4.1 Work plan

The work plan is structured in seven work packages, each one leaded by one of the partners of the consortium. Total duration of the project will be 36 months. Objectives and a detailed description of the activities can be found in section 4.2, and timeline is presented in section 4.3.

WP1: Preparation and user requirement analysis, main objective is the identification of needs from different target groups in order to define the requirements and contents of the academic programs and capacity building activities. This work package will be led by UMA and it runs for the first half of the first year.

WP2: Development of ICT Research Centres, with the procurement, installation and use of ICT equipment to train students in environmental engineering lab activities, including the preparation of equipment and laboratory manuals. This work package will be led by BUIITEMS, in close collaboration with all Pakistan partners, and it runs from the third quarter of the first year to the first quarter of the third year.

WP3: Development of academic modules, dealing with digital content preparation of different learning materials, program accreditation and enrolment of students in Pakistan. This work package will be led by NUTECH and it runs from the third quarter of the first year to the third quarter of the second year.

WP4: Training/Capacity Building, focused on practical training of different target groups and staff. This work package will be led by SSUET and it runs from the last quarter of the first year to the first quarter of the third year.

WP5: Dissemination and exploitation, with a very extensive list of activities. Dissemination is considered a key aspect of this project. This work package will be led by MUET and it will run for the overall duration of the project.

WP6: Quality assurance of the project, based on a plan, do, check, act methodology. Lead beneficiary will be MTU. It will run for the overall duration of the project.

WP7: Project management, with all activities related with management of the project. Lead beneficiary will be UPB, with close collaboration of coordinator UMA. It will run for the overall duration of the project.

Many activities have been planned to be developed in blended mode, but some events have been scheduled for better monitoring and dissemination of project activities.

As suggested in the template for not complex projects, milestones are not used in this proposal, except for just one milestone regarding social network dissemination.

4.2 Work packages and activities

WORK PACKAGES
<p><i>This section concerns a detailed description of the project activities.</i></p> <p><i>Group your activities into work packages. A work package means a major sub-division of the project. For each work package, enter an objective (expected outcome) and list the activities, milestones and deliverables that belong to it. The grouping should be logical and guided by identifiable deliverables/outputs.</i></p> <p><i>Projects should normally have a minimum of 2 work packages. WP1 should cover the management and coordination activities (meetings, coordination, project monitoring and evaluation, financial management, progress reports, etc.) and all the activities which are cross-cutting and therefore difficult to assign to another specific work package (do not try splitting these activities across different work packages). WP2 and further WPs should be used for the other project activities. You can create as many work packages as needed by copying WP1. The last WP should be dedicated to Impact and dissemination</i></p> <p><i>Please refer to the Call document/Programme Guide for specific requirements concerning the number and the typology of work packages.</i></p> <p><i>Work packages covering financial support to third parties (only allowed if authorised in the Call document/Programme Guide) must describe the conditions for implementing the support (for grants: max amounts per third party; criteria for calculating the exact amounts, types of activity that qualify (closed list), persons/categories of persons to be supported and criteria and procedures for giving support; for prizes: eligibility and award criteria, amount of the prize and payment arrangements).</i></p> <p><i>Enter each activity/milestone/output/outcome/deliverable only once (under one work package).</i></p>

Work Package 1.

Work Package 1: Preparation. User Requirements Analysis			
Duration:	M1-M8	Lead Beneficiary	University of Malaga (UMA), Spain.
Objectives:			
This activity is focused on analyzing the current status of degrees and actual needs to implement a new engineering master degree using PBL methodology.			

The proposed curricula development is based in PBL to provide a practical and ready to use ICT capabilities adapted to environmental engineering which will allow their students to develop skills highly valued by the society.

The academic programs based on PBL must take into account different factors, external and internal to the teaching institutions. Among them we can indicate the national and regional regulations of the higher education system, the interests of employers, and the available infrastructure. From this study will be defined a set of directives that will be the basis for the definition of curricula in later phases.

The characteristics of the online course systems that make them attractive will be studied, and an analysis will be prepared that gathers these characteristics and serves as a starting point for the development of new courses. In this objective, the social and environmental specificities of each region in Pakistan will be taken into account, in order to adapt the degrees to the expectations and possibilities of prospective students.

As a whole, the result of this user requirement activity will serve as the basis for the tasks to be carried out in the rest of this project

Activities:					
Task No.	Task Name	Description	Participants		In-kind Contribution and Subcontracting
			Name	Role (COO, BEN, AP)	
T1.1	User requirements analysis on innovative teaching methodologies	Analysis of Feedback acquired from target groups including Students, Faculty, Regulatory Bodies and industry to finalize innovative teaching methodologies.	All Partners	COO, BEN and AP	NO
T1.2	User requirements analysis on curriculum development	Analysis of Feedback acquired from target groups including Students, Faculty, Regulatory Bodies, Industry, Non-Governmental Organization and General Public to initiate curriculum development.	All Partners	COO, BEN and AP	NO

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Milestones and Deliverables:							
Deliverable No.	Deliverable Name	Workpackage No.	Lead Beneficiary	Type	Dissemination Level	Due Date	Description
D1.1	Good practices on innovative teaching methodologies in Pakistan HEIs	WP1	UMA	R	SEN	M6	This deliverable will analyze the factors and constraints to design and implement innovative teaching, including PBL, in master degrees. Report in English.

Work Package 2.

Work Package 2: Development of ICT Research Centres			
Duration:	M6-M26	Lead Beneficiary	BUIITEMS, Pakistan
Objectives:			
The objective of WP-2 is to develop four ICT Research Centres at BUIITEMS, SSUET, MUET and NUTECH to address the learning and research needs for the Master’s Program. The centre will house research equipment and tools necessary for the ICT based approach in environmental engineering studies. The			

centre will not only shelf necessary ICT equipment such as sensors, loggers, weather stations, etc., but will also contain workstations equipped with necessary software for GIS mapping, modelling of environmental effects and database management. The facility will not only be used to train students on different ICT approaches to environmental engineering but students will also use the facility for research during their theses work. Since all four Universities hail from different areas of Pakistan, their Geography also differs and along with it, their environmental issues. Therefore, all four Centres will have different areas of specialization, such as, BUIEMS Quetta Lab will be focusing on Ground Water Resource Management and Modelling Climate Change. However, all four centres will be connected virtually and would benefit from research and data of each other. SOTA machine and deep learning algorithms will be focused in training students for modelling environmental effects including data collection/ storage (from remote sensor networks) and data cleaning and big data analytics. The centres will bridge the gap between theory and practice and hence graduates will be better equipped to solve environmental issues of their respective regions.

Activities:					
Task No.	Task Name	Description	Participants		In-kind Contribution and Subcontracting
			Name	Role (COO, BEN, AP)	
T2.1	Procurement	Develop technical specification for the required equipment, Procurement of Equipment and GIS Maps, developing tender documents, tender advertisement, technical evaluation of received tenders, award of tender, LC opening and payments	BUIEMS, SSUET, MUET, NUTECH, PEC, Alfoze and UMA	COO, BEN and AP	NO
T2.2	Installation and Commissioning of the Equipment	Inspection and testing of the received equipment, assembling and laboratory setup, Calibration, Computer based simulation setup establishment	BUIEMS, SSUET, MUET, NUTECH, PEC, Alfoze and UMA	COO, BEN and AP	NO

T2.3	Technical training of Human Resources involved at ICT Research Centres	Technical training of Centre HR in basic operation of the equipment	BUIITEMS, SSUET, MUET, NUTECH, PEC, Alfoze and UMA	COO, BEN and AP	NO
T2.4	Baseline Establishment	Establishment of database and dashboard to log historic data and incoming data from sensors networks	BUIITEMS, SSUET, MUET, NUTECH, PEC, Alfoze and UMA	COO, BEN and AP	NO
T2.5	Development of Equipment Manuals	Development of Equipment usage manuals	BUIITEMS, SSUET, MUET, NUTECH, PEC, Alfoze and UMA	COO, BEN and AP	NO
T2.6	Development of Laboratory Manuals	Development of Laboratory usage manuals	BUIITEMS, SSUET, MUET, NUTECH, PEC, Alfoze and UMA	COO, BEN and AP	NO

Milestones and Deliverables:							
Deliverable No.	Deliverable Name	Workpackage No.	Lead Beneficiary	Type	Dissemination Level	Due Date	Description

D2.1	State of the art laboratories will be established at each partner HEIs.	WP2	BUIITEMS	R	SEN	M18	Word Document in English
D2.2	ICT Research Centres at each partner HEIs including Lab Manuals.	WP2	BUIITEMS	R, DEM	SEN	M26	Word Document in English
D2.3	Databases and profiles of Environmental Monitoring as key outcome of each Research Centre	WP2	BUIITEMS	DATA	SEN	M26	Data set in English

Work Package 3.

Work Package 3: Development of Academic Modules			
Duration:	M6-M20	Lead Beneficiary	NUTECH, Pakistan
Objectives:			
<p>The objective of WP-3 is Curriculum Development for proposed Master’s Degree Program "MS in Sustainable integration of environmental development with ICT" for addressing climate change related challenges of Pakistan.</p> <p>While HEIs in partner The core courses will be highly practice-oriented, offering the students the opportunity to work on environmental problems with quick and cost-effective solutions provided using image processing, photonics, IoT, AI and all major forms of Information and Communication Technologies. International summer schools will be organized by inviting speakers from Spain, Ireland and Romania to provide specialized training in related topics and strengthen collaboration and group working abilities.</p>			

countries have expertise in Information and Communication Technology and Environmental Engineering and Design, it requires training of its faculty and staff in modern approaches of using ICT to address environmental issues. Such pieces of training are required to be obtained from the partner European Universities to benefit from their experience. The proposed program will focus on enhancing the skills and knowledge of people in utilizing ICT to mitigate environmental issues. The faculty requires modern knowledge in environmental and climatic issues, their mitigating techniques and the role ICT can play in it. Such knowledge will help the teaching staff in designing and delivering curricula that is useful and meaningful for their students and community at large. The teaching staff can obtain such knowledge by participating in discussions, conferences, short training programs etc. offered by the program European institutes. The teaching staff also need opportunities for ongoing international cooperation to keep themselves involved in the latest practices in their domain.

After completion of the accreditation process of the curriculum in all Pakistan partner universities, the Masters course will be offered by the partner universities. The number of master students intake will be around 30 each year in each partner institution. During the project development this number was identified by the project partners based on yearly average intake of each university by today and this number might change according after discussing with consortium. This activity will be supported by the Higher Education authorities. The graduated master students are expected to provide the sustainability of the master program after the project life time as they could be next specialists and researcher.

The core courses will be highly practice-oriented, offering the students the opportunity to work on environmental problems with quick and cost-effective solutions provided by the use of image processing, photonics, IoT, AI and all major forms of Information and Communication Technologies. International summer schools will be organized by inviting speakers from **Spain, Ireland and Romania** to provide specialized training in related topics and strengthen collaboration and group working abilities.

Activities:					
Task No.	Task Name	Description	Participants		In-kind Contribution and Subcontracting
			Name	Role (COO, BEN, AP)	

T3.1	Curriculum development and qualification description	In this task, overall structure and modules of program will be developed. Number of semesters, credit hours and course review process will be developed.	All partners	COO, BEN and AP	NO
T3.2	Developed syllabuses and content materials.	Development of courses, learning and teaching tools, delivery processes and platform for student-centered learning of the proposed curriculum	All partners	COO, BEN and AP	NO
T3.3	Program accreditation	In this task the developed program will first approved from consortium and then it will be accredited from Higher Education Commission.	All partners	COO, BEN and AP	NO
T3.4	Enrolling 30 master students in partners universities	The program will be advertised in all Pakistan partner Universities and open for enrolment of students at National level.	All partners	COO, BEN and AP	NO

Milestones and Deliverables:							
Deliverable No.	Deliverable Name	Workpackage No.	Lead Beneficiary	Type	Dissemination Level	Due Date	Description
D3.1	One new MS degree program with tentative degree title "MS in Sustainable integration of environmental development with ICT".	WP3	NUTECH	R	SEN	M20	Language will be in English. The program will be developed in local Credit Hours System. The document will contain all the detail and quality description regarding the program including the curriculum, syllabus, program modules, load allocation in each

							semester, project and complex problem and allocation and etc.
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Work Package 4.

Work Package 4: Trainings/Capacity Building			
Duration:	M9-M26	Lead Beneficiary	SSUET, Pakistan
Objectives:			
<p>The objective of WP-4 is mainly Capacity Building of Stakeholders involved at the level of participating Universities where the technical training activities are mandatory to deal with ICT based Environmental Research Centre. It also allows to plan adequate number of mobilities with an aim to get specific training at the EU Universities. Apart from providing required trainings to launch the new MS degree Program, it also aims to focus on certifications and short courses for Staff and faculty as part of their capacity building in the field of environmental services. The involvement of Pakistan Engineering Council and Alfoze Technologies as associated partners will certainly enhance the visibility of all initiatives at larger scale.</p> <p>The new MS degree program would also involve development of new learning materials and tools capable of open and flexible learning strategies augmented with practical training using approach of complex engineering analysis and training of teaching staff. The core courses will be highly practice-oriented, offering the students the opportunity to work on environmental problems with quick and cost-effective solutions provided by the use of image processing, photonics, IoT, AI and all major forms of Information and Communication Technologies.</p> <p>The specific objectives are aligned with Target 13.3 of SDG 13 i.e. Climate Action, which says, “Improve education, awareness-raising and human and institutional capacity on climate change mitigation, adaptation, impact reduction and early warning”. It is followed by Target 13.b which says “Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities”.</p> <p>The following specific objectives will be achieved:</p>			

1. Trainings required to launch new MS degree Program
2. Skill based training for the Provision of climate related services
3. Training on development of climate change adaptation and mitigation strategies for various target groups
4. Training on utilizing climate data processing software and simulation techniques
5. Capacity Building to encourage online learning platforms for climate related courses
6. Training of Faculty in various industrial sectors with focus on environmental monitoring

Activities:					
Task No.	Task Name	Description	Participants		In-kind Contribution and Subcontracting
			Name	Role (COO, BEN, AP)	
T4.1	Capacity Building at advanced Level	Short course to cover advanced approaches related to Climate change adaptation and mitigation strategies	All partners	COO, BEN and AP	NO
T4.2	Capacity Building at Hardware Level	Short course to cover advanced data gathering schemes using Sensor Networks and Drone Technology for both life on land and life below water.	All partners	COO, BEN and AP	NO
T4.3	Capacity Building at Software Level	Short course to cover data processing software tools for real time data gathered from life on land and life below water.	All partners	COO, BEN and AP	NO

T4.4	Climate Smart Agriculture	This important training focuses on the use of ICT for exploring relationship between crop production and climate change. It would involve applications of both hardware and software tools course to analyze the climate change impacts on agriculture, food security and food systems and provides an overview of the main climate change adaptation and mitigation strategies in agriculture.	All partners	COO, BEN and AP	NO
T4.5	Community-based climate change adaptation in agriculture	The intended outcome of the course is to assist all partners in Development of blended learning courses in the field of climate change and adaptation so that the awareness about climate change can be propagated to all communities.	All partners	COO, BEN and AP	NO

Milestones and Deliverables:							
Deliverable No.	Deliverable Name	Workpackage No.	Lead Beneficiary	Type	Dissemination Level	Due Date	Description
D4.1	Capacity Building for ICT Environmental Research Centre	WP4	SSUET	R	SEN	M18	Accomplishment of all capacity building activities needed to establish ICT Environmental Research Lab at each Asian Partner.
D4.2	Advanced Training in Climate Change	WP4	SSUET	R	SEN	M18	Accomplishment of all identified training activities to mitigate climate change.

Work Package 5: Dissemination and Exploitation			
Duration:	M1-M36	Lead Beneficiary	MUET, Pakistan
Objectives:			
<p>The Objectives of WP5 is to ensure that Project partners are committed to undertake a jointly and effective Communication, Dissemination and Visibility process by following standard aspects throughout the project.</p> <ol style="list-style-type: none"> 1. Awareness building (promotes ACTIVE and appraise about the existence and nature of the project). It will include Visual identity of the project, project wider objectives, project specific objectives and communication tools. 2. Dissemination (inform about project results as they are achieved) by means of effective networking, events participation including workshops, trainings, conferences and dissemination of key achievements on a regular basis. 3. Maximum Dissemination and Exploitation (encourage the further use of ACTIVE results and ensure sustainability) by assuring all Stakeholders' involvement along with other friendly organizations as well. 4. The Communication, Dissemination and Visibility Plan (CDVP) developed to be updated as the project advances and the additional activities implemented by the project partners will be reflected in the successive versions of the CDVP. 5. Making and managing all the media platforms of the project for maximum dissemination across the globe. 6. Positive image projection of the project via the positive/effective media campaigns. 7. Trainings regarding Carbon Literacy Programs after every few months to educate and raise awareness regarding Carbon emissions and environment protection. 8. Motivation towards good research publications and ensuring visibility of the EU actions. 9. Communication and dissemination phases will also be reported to EC and EU Delegation from time to time 10. Ensuring Branding of EU actions and promotion of financial support by EU. 			

Activities:					
Task No.	Task Name	Description	Participants		In-kind Contribution and Subcontracting
			Name	Role (COO, BEN, AP)	
T5.1	Brief Layout / CDVP followed by Website Development	Generalized Development of a Communication, Dissemination and Visibility Plan of the project – July 2023 <i>A Comprehensive Project Communication, Dissemination and Visibility Plan (CDVP) will be developed to maximize the outcome of the project activities on the immediate participants. Main task here would be to Create a Project website and maintaining it throughout the project lifetime to support the dissemination strategy, and communication and collaboration among partners.</i>	All partner Universities led by Alfoze Technologies.	COO, BEN and AP	NO
T5.2	Development of Magazines, Newspaper Drafting, Designing of Flyers and Brochures etc. Distribution of Flyers and Brochures along with Main Final/Mega Brochure	Drafting, development and distribution of magazines, newsletters, newspapers, flyers and brochures – July 2023, January 2024, July 2024, January 2025, July 2025. Design and formation of main final brochure – April 2023	All Partner Universities led by MUET	COO, BEN and AP	NO
T5.3	Tender Mechanism Followed by Publications, Articles, Stories and Essays	Launch of public tender/mechanism for printing – May 2023 Various Publications in professional journals, newspapers, magazines	All partner Universities	COO, BEN and AP	NO

T5.4	Interactive and Impactful Social Media Coverage	Publications and coverage on social media – Permanently and regularly	All Partner Universities led by MUET	BEN	NO
T5.5	Dissemination Events and Updates with Mega dissemination and Sustainability Conference	Organizing the mega dissemination-sustainability conferences (tentatively in in July 2024 and July 2025).	All partner Universities	COO, BEN and AP	NO
T5.6	Awareness Campaigns and CLT Programs	Awareness Campaigns and Carbon Literacy Training Programs in May 2023 in physical visit sessions	MUET	BEN	NO
T5.7	Collaboration, Training and Internship followed by Division Of Tasks and HR details	Attracting and collaborating with other media platforms and organizations for coverage. Collective and Collaborative Approach will be used. Creating Internship and Training opportunities for further distributing the tasks of dissemination to reach the maximum audience Assigning human resources to deal with all tasks related to project visibility	MUET	BEN	NO
T5.8	Videos, Short Documentaries, News Coverage along with Liaison with PR Departments with the main intention of EU Branding and Highlighting	News Coverage of various important events by all partner countries in their region. Strong Liaison with Public Relations Offices of each partner university mainly led by Mehran University of Engineering and Technology, Jamshoro. Short Videos and Short Documentaries will also be made from time to time Highlighting EU Flag and highlighting all SDGs as an integral part of the project and one of the major contribution of EU	All Partner Universities led by MUET	COO, BEN and AP	NO

Milestones and Deliverables:							
Milestone No.	Milestone Name	Workpackage No.	Lead Beneficiary	Description		Due Date	Means of verification
MS1	Maximum Followership	WP5	MUET	To Reach at least Fifty Thousand Likes on Facebook Page by the end of the Project and maximum followership on other social media platforms		M36	By Checking Number of Likes on the Facebook page of the Project and on the main page of the other platforms
Deliverable No.	Deliverable Name	Workpackage No.	Lead Beneficiary	Type	Dissemination Level	Due Date	Description
D5.1	Website of the project	WP5	MUET	DEC	SEN	M6	Website of the project as well as a dedicated section in each institution's website. Websites. Main language will be English.
D5.2	Dissemination Plan/Roadmap	WP5	MUET	R	SEN	M12	Document with description and schedule of dissemination activities related with ACTIVE project. Report in English
D5.3	Detailed Report on Dissemination Activities.	WP5	MUET	R, DEC	SEN	M36	Detailed Report on Dissemination Activities including Seminars, Conferences, Trainings, Interactive Social Media Platforms along with development of Short Documentaries and Videos. Report in English.

D5.4	Publicize the Project's Aims, Objectives, Progress, Success and Outcomes with Dissemination Seminars, Conferences and Trainings for Maximum Engagement and Interaction	WP5	MUET	R, DEC	SEN	M36	<p>Initially, a brief report will be developed followed by active social media engagement for publicizing the aims and objectives of the project. Moreover, Seminars, project meetings and workshops for engaging various audiences along with the partner universities. Invitation to people from outside can also be given for more dissemination.</p> <p>Division of due dates in to eight phases as per dates of the project meetings and events (July 2023, Dec 2023, March 2024, July 2024, Dec 2024, March 2025, July 2025 and Dec 2025) However, engagement of social media will be a continuous process</p> <p><i>Language will be English</i></p>
D5.5	Active and Interactive Social Media Platforms along with development of Short Documentaries and Videos	WP5	MUET	OTHER	SEN	M36	<p>Various Social Media Platforms will be developed for dissemination and exploitation.</p> <p><i>Short Documentaries and videos will be made showing the success, objectives and highlighting the various activities</i></p> <p><i>By End of Every Year and updates according to project meetings:</i></p> <p><i>Dec 2023, Dec 2024 and Dec 2025</i></p> <p><i>Language will be English</i></p>

Work Package 6.

Work Package 6: Quality Assurance			
Duration:	M1-M36	Lead Beneficiary	MTU, Ireland.
Objectives:			
<p>The work package focuses to produce Quality Assurance Process, Plan and Program Evaluation Policy (PEP). The Quality assurance is embedded in project to ensure that proposed project successfully deliver the expected results and achieve an impact beyond the partnership itself. Quality assurance process are implemented so that the project implementation is of high quality, completed in time and cost-efficient. Quality assurance process are implemented first during the curriculum development and second when curriculum is implemented in HEIs to make sure that the projects' outcomes should have a significant and long-term impact on the targeted HEIs beyond the projects' lifetime and as such benefitting the society.</p> <p>To ensure that the project goes on as planned, and that its objectives are met the Committee for Quality Control (CQC), made up of at least one member of each partner, that will have the following main attributions during the project lifetime:</p> <ul style="list-style-type: none"> • Defining the administrative procedures to be carried out during the project • Defining the standards of the documents to be developed during the project • Carry out the quality assurance procedures that are plan, do, check, and act. <p>Once the project is implemented, the same committee will adopt the quality assurance procedure for the continual improvement of the program proposed through project. The team will carry out the direct and indirect assessment of the program. In the direct assessment feedback will take by the statutory bodies and in indirect assessment the feedback will be taken by alumni, employer, and other relevant stakeholders. Based on the feedback, the learned lessons will be incorporated in the program for the continual improvement.</p> <p>The CQC will have at least a monthly online meeting (Skype, Zoom, etc.) and will make and present a report on quality assurance for every coordinating meeting. The CQC is to report to the project director any detected issue that threatens the progress of the project. The new MS degree program would also involve development of new learning materials and tools capable of open and flexible learning strategies augmented with practical training using approach of complex engineering analysis and training of teaching staff. The core courses will be highly practice-oriented, offering the students the opportunity to work on</p>			

environmental problems with quick and cost-effective solutions provided by the use of image processing, photonics, IoT, AI and all major forms of Information and Communication Technologies.

Activities:					
Task No.	Task Name	Description	Participants		In-kind Contribution and Subcontracting
			Name	Role (COO, BEN, AP)	
T6.1	Plan: Quality at Entry	<p>At the concept stage, relevance, sustainability, and impact of the program will be reviewed.</p> <p>The extent to which the program components/activities are consistent with the broader objectives the program seeks to achieve and with the overall strategy of the Centers.</p>	Project Head and one Member from each partner.	COO, BEN and AP	NO
T6.2	Plan: Development Stage	<p>At the development stage, quality of Content and Design, efficiency, and effectiveness will be reviewed.</p> <p>The extent to which: a) the proposed content of the program reflects state-of-art knowledge and practice; b) the design and sequencing of the various components of the program are logical and optimally arranged to achieve impact.</p>	Project Head and one Member from each partner.	COO, BEN and AP	NO

		<p>The extent to which resources devoted to the program (human, financial, and time) are commensurate with the objectives of the program.</p> <p>Setting up and updating the project website</p>			
T6.3	Do: Quality at implementation	<p>The extent to which the quality of content and design are conducive to the program’s capacity development objectives. Review conducted for each component as it is implemented</p> <p>What changes in program content and design are warranted because of the mid-term review?</p>	Each centre Head along with its team.	COO, BEN and AP	NO
T6.4	Check: Quality at exit (after implementation)	<p>The extent to which the program components/activities are consistent with the broader objectives the program seeks to achieve and with the overall strategy of the Center.</p> <p>Was the program relevant to the needs and objectives of its target beneficiaries? Was it relevant for the Center’s own strategy?</p> <p>Does feedback from the participants/organizations involved in the program indicate that the program achieved its objectives?</p> <p>Dissemination of information about the events organized within the project</p>	Each Centre Head along with its team.	COO, BEN and AP	NO
T6.5	Act: Implementation of lesson learned.	<p>Loop between Quality-at-entry and Quality-at-exit.</p> <p>Are findings from quality at entry, implementation, and quality at exit being integrated into planning for the next phase?</p>	Project Head and one Member from each partner.	COO, BEN and AP	NO

Milestones and Deliverables:							
Deliverable No.	Deliverable Name	Workpackage No.	Lead Beneficiary	Type	Dissemination Level	Due Date	Description
D6.1	Detailed Report on Quality Assurance Process, Plan and Program Evaluation Policy (PEP).	WP6	MTU	R	SEN	M32	It will be developed and implemented in the programmatic approach Detailed Report in English on Quality Assurance activities by the Project month 32.

Work Package 7.

Work Package 7: Project Management			
Duration:	M1-M36	Lead Beneficiary	UPB, Romania.
Objectives:			
<p>The main objective of this WP is to set up an effective management framework for the consortium to ensure progress of the project towards its planned aims, objectives and commitments. The goal is to carry out the activities of Consortium management, organize the governance of the project, and provide administrative oversight and support all the other WPs.</p> <p>The principal actor of the WP 7 will be University of Malaga (coordinator) and UPB, supported by each WP leader. The specific management objectives are:</p> <ol style="list-style-type: none"> 1. Establish and maintain the governance structure of the project; 2. Ensure that technical and managerial decisions are made for the implementation of the work plan; 			

3. Support the coordination of the activities and timelines of the Consortium partners;
4. Track the performance of the programme according to plans and timelines;
5. Issue progress reports reviews as specified in budget plan;
6. Oversee funding allocation and ensure that the project stays within budget;
7. Perform the day-to-day administrative and financial management of the programme; and
8. Manage the intellectual property tracking within the project according to the project agreement and based on input by all the WPs.

Activities:					
Task No.	Task Name	Description	Participants		In-kind Contribution and Subcontracting
			Name	Role (COO, BEN, AP)	
T7.1	Establishment of the governance structure	<p>Development of hierarchical and consortium structure according to the role and responsibility assigned with reference to WP. It focuses on communication among project Stakeholders and Partners.</p> <p>Establishment of protocols and procedures of WP respectively by the lead of each WP.</p> <p>Ensure that it correlates with the actual objective. Also, budgeting and time management will be entertained in each WP.</p> <p>Standard and precise policies should be made for Management bodies such as; Monitoring committee, consortium management, risk management.</p>	All Partners	COO, BEN and AP	NO

T7.2	Legal, ethical and gender issues and contractual management	Developing Ethical standards for communication and handling the relationship among Partners, make sure the gender discrimination should be completely eliminated and a minimum ratio should be set of 60:40 male and female respectively. Also if any conflicts arise so they should be resolved through a committee. The project contracts should be written in an international language (English) and a manner that reflects the project objectives and aim. Ensure the establishment of trust among the contract's partners.	All Partners	COO, BEN and AP	NO
T7.3	Project Monitoring	<p>Objectives and goals of WP along with budget and time constraints will be examined. The monitoring committee will keep the check-in balance after a span of time in order to avoid rework or over budgeting.</p> <p>If in the case of no progression observed by the committee so the lead has to give the explanation to all the rest partners and a set of dates and ideas should be entertained to the respective lead to come up with a better outcome.</p> <p>Meetings formal and informal ought to be organized to know the worker and work both simultaneously.</p> <p>Also a Review report will be generated by the committee after every span of time and keep the record to track their performance from start to end.</p> <p>Lastly, an approval confirmation of the project should be declared after a complete analysis of the project and with the conversation with the Lead and the working team.</p>	All Partners	COO, BEN and AP	NO
T7.4	Submission of reports	The final report by the lead of WPs along with the Review report which was maintained by the focal	All Partners	COO, BEN and AP	NO

		<p>person monitoring committee has to be submitted to the one who is assigned to collect the final task report.</p> <p>Evaluate the project report with the project agreement to approve the submission</p>			
T7.5	Consortium Management	<p>The interweaving network between partners of the consortium. Provide shared vision in order to maintain and impart maximum efficiency and effectiveness to its beneficiaries. Organizing and taking part in different groups of the consortium, every lead has to attend the prescribed meetings and after the completion of the meetings, everyone should submit their viewpoint.</p> <p>Every partner of the project should esteem each other's opinions and establish smooth communication among stakeholders/partners.</p>	All Partners	COO, BEN and AP	NO
T7.6	Risk Management	<p>Each known risk should design a strict protocol such as over budgeting, out of time, a project with bugs, dormant workers, unethical or illegal situations may occur, etc.</p> <p>All anticipated risks or in actual including financial, technical, cost & environmental risk which have been experienced from the beginning till the end of the project will be recorded in a directory, to avoid an increase in the cost of the project.</p>	All Partners	COO, BEN and AP	NO

Milestones and Deliverables:

Deliverable No.	Deliverable Name	Workpackage No.	Lead Beneficiary	Type	Dissemination Level	Due Date	Description
D7.1	Consortium Agreement	WP7	UMA	R	SEN	M6	<p>Consortium agreement document. The document will include internal consortium rules for financial and activity reporting, rules for consortium management, internal deadlines for meeting arrangement, for data handling, for dissemination action, for internal and external communication, risk management. It will be approved in a joint meeting. Report in English</p>
D7.2	Project management Document	WP7	UMA	R	SEN	M34	<p><i>Detailed document on Project plan for management of risks, monitoring and control procedures that will be prepared UPB for the whole. It includes D7.1 document.</i></p> <p>The guidelines will be drafted by the coordinator and approved by the consortium members; they will be consistent with Grant Agreement and Consortium Agreement provision</p> <p>Report in English.</p>
D7.3	Project management plan monitoring tool	WP7	UPB	DMP	SEN	M4	<p>A tool for monitoring project activities and checking proper execution of activities during project implementation will be set up by the UPB. The tool will be updated constantly on the basis of partner's contribution and will be available to all partners on the intranet for checking project status at any moment in time.</p> <p>English</p>

D7.4	Data management plan	WP7	UPB	DMP	SEN	M4	A Data Management Plan (DMP) will be drafted by the UPB and approved by all the partners. The DMP will describe the data management life cycle for the data that will be collected, processed and generated during the project implementation. It will include information on the handling of data during and after the end of the project, type of data that will be collected, processed and generated, methodology for the collection, standards for storage and sharing.
D7.5	Risk Management	WP7	UMA	DMP	SEN	M4	Project plan for management of risks, monitoring and control procedures.

Estimated budget — Resources (n/a for prefixed Lump Sum Grants)

Please refer to detailed budget file.

Overview of Work Packages (n/a for Lump Sum Grants)

Staff effort per work package						
<i>Fill in the summary on work package information and effort per work package.</i>						
Work Package No	Work Package Title	Lead Participant No	Lead Participant Short Name	Start Month	End Month	Person-Months
1	Data Collection and Analysis	1	UMA	1	8	828
2	Development of ICT Environmental Research Centre	6	BUIITEMS	6	26	795
3	Development of Academic Modules	7	NUTECH	6	20	895
4	Capacity Building	5	SSUET	9	26	873
5	Dissemination and exploitation	4	MUET	1	36	544
6	Quality management	3	MTU	1	36	482
7	Project management	2	UPB	1	36	559
Total Person- Months:						4976

Staff effort per participant								
<i>Fill in the effort per work package and Beneficiary/Affiliated Entity.</i>								
<i>Please indicate the number of person/months over the whole duration of the planned work.</i>								
<i>Identify the work-package leader for each work package by showing the relevant person/month figure in bold.</i>								
Participant	WP1	WP2	WP3	WP4	WP5	WP6	WP7	Total Person-Months
UMA	107	72	95	95	70	62	90	591
UPB	119	65	95	95	67	95	103	639
MTU	42	38	57	43	47	45	54	326
MUET	140	155	162	160	90	70	78	855
SSUET	140	155	162	160	90	70	78	855
BUIITEMS	140	155	162	160	90	70	78	855
NUTECH	140	155	162	160	90	70	78	855

Total Person-Months	828	795	895	873	544	482	559	4976
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Events meetings and mobility

Events meetings and mobility							
<i>This table is to be completed for events meetings and mobility that have been mentioned as part of the activities in the work packages above Give more details on the type, location, number of persons attending, etc.</i>							
Event No (continuous numbering linked to WP)	Participant	Description	Attendees				
		Name	Type	Area	Location	Duration (days)	Total
E1.1	COO, All BEN and both APs	ACTIVE: Kick off Meeting	Project Meeting	Formation of various committees for smooth operations of work packages Deliverable 1.1: User Requirement Analysis Deliverable 2.1: Establishment of 04 state of the art laboratories at each partner HEIs Consortium agreement	UMA, Spain	04	21
E2.1	COO, All BEN and both APs	ACTIVE: First Training Workshop	Training Workshop + Project Meeting	Workshop to provide training on Deep Learning and handling of intended hardware for ICT based Labs including handling of databases and Profiles. Meetings of various Committees responsible for Dissemination, Quality Assurance and Project Management.	UPB, Romania	04	21
E3.1	COO, All BEN and both APs	ACTIVE: First Workshop for Curriculum Development	Workshop + Project Meeting	Development of overall structure and modules of program along with course review process.	MUET, Pakistan	04	28

				Project Meeting to review progress on Deliverables			
E3.2	COO, All BEN and both APs	ACTIVE: First Workshop for Curriculum Development	Workshop + Project Meeting	Development of courses, learning and teaching tools, delivery processes and platform for student-centred learning of the proposed courses. Project Meeting to review progress on Deliverables	NUTECH, Pakistan	04	28
E4.1	COO, All BEN and both APs	ACTIVE: First Training Workshop for Capacity Building	Training Workshop + Project Meeting	Training to cover advanced approaches related to Climate change adaptation and mitigation strategies Training to cover advanced data gathering schemes using Sensor Networks and Drone Technology for both the life on land and the life below water. Training to cover data processing software tools for real time data gathered from the life on land and the life below water. Project Meeting to review progress on Deliverables	SSUET, Pakistan	03	20
E4.2	COO, All BEN and both APs	ACTIVE: Second Training Workshop for Capacity Building	Training Workshop + Project Meeting	Training on Smart Agriculture focuses on the use of ICT for exploring relationship between crop production and climate change. It would involve applications of both hardware and software tools to analyze the climate change impacts on	SSUET, Pakistan	03	20

				<p>agriculture, food security and food systems and provides an</p> <p>Training on Development of blended learning courses in the field of climate change and adaptation so that the awareness about climate change can be propagated to all communities.</p> <p>Project Meeting to review progress on Deliverables</p>			
E5.1	COO, All BEN and both APs	ACTIVE: Dissemination Seminar and Technical Conference on ICT Based Climate Actions	Seminar+ Conference	<p>Dissemination Seminar including multiple sessions covering deliverables of work package 5.</p> <p>Project Meeting to review overall progress on Deliverables</p>	MTU, Ireland	03	14
E6.1	COO, All BEN and both APs	Major Meeting of Quality Control Committee + Project Meeting	Meeting	<p>Review of Quality Control Aspects of all Work Packages and compilation of related reports.</p> <p>Project Meeting to review overall progress on Deliverables</p>	BUIEMS, Pakistan	03	20
E7.1	COO, All BEN and both APs	Major Meeting of Project Management/ Steering Committee + Project Meeting	Meeting	<p>Review of Project Management Aspects of all Work Packages and compilation of related reports.</p> <p>Project Meeting to review overall progress on Deliverables</p>	UMA, Spain	03	21

4.3 Timetable

Timetable (projects of more than 2 years)																											
<i>Fill in cells in beige to show the duration of activities. Repeat lines/columns as necessary.</i>																											
Note: Use actual, calendar years and quarters. In the timeline you should indicate the timing of each activity per WP. You may add additional columns if your project is longer than 6 years.																											
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	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3	Q 4	Q 1	Q 2	Q 3
Task 1.1 - User requirements analysis on innovative teaching methodologies																											
Task 1.2 - User requirements analysis on curriculum development																											
Task 1.3 - User requirements analysis on ICT needs for environmental applications																											
Task 2.1 - Procurement																											
Task 2.2 - Installation and Commissioning of the Equipment																											
Task 2.3 - Technical training of Human Resources involved at ICT Research Centres																											
Task 2.4 - Baseline Establishment																											
Task 2.5 - Development of Equipment Manuals																											
Task 2.6 - Development of Laboratory Manuals																											
Task 3.1 - Curriculum development and qualification description																											
Task 3.2 - Developed syllabuses and content materials																											
Task 3.3 - Program accreditation																											

4.4 Subcontracting

Not applicable: no subcontracting activities are proposed.

5. OTHER

5.1 Ethics

Non applicable

5.2 Security

Not applicable.

6. DECLARATIONS

Double funding	
Information concerning other EU grants for this project <i>Please note that there is a strict prohibition of double funding from the EU budget (except under EU Synergies actions).</i>	YES/NO
We confirm that to our best knowledge neither the project as a whole nor any parts of it have benefitted from any other EU grant (including EU funding managed by authorities in EU Member States or other funding bodies, e.g. Erasmus, EU Regional Funds, EU Agricultural Funds, European Investment Bank, etc). If NO, explain and provide details.	YES
We confirm that to our best knowledge neither the project as a whole nor any parts of it are (nor will be) submitted for any other EU grant (including EU funding managed by authorities in EU Member States or other funding bodies, e.g. Erasmus, EU Regional Funds, EU Agricultural Funds, European Investment Bank, etc). If NO, explain and provide details.	YES

Financial support to third parties (if applicable) <i>If your project requires a higher maximum amount per third party than the threshold amount set in the Call document/Programme Guide, justify and explain why this is necessary in order to fulfil your project's objectives.</i>
Not applicable

ANNEXES

ANNEX 1 DETAILED BUDGET TABLE

See Excel file with Detailed Budget Tables

HISTORY OF CHANGES		
VERSION	PUBLICATION DATE	CHANGE
1.0	25.02.2021	Initial version (new MFF).
2.0	18.10.2021	Grant Agreement. Part B
3.0	03.11.2022	Replacement of FJWU by NUTECH

Proposal Info			
Proposal ID	Call for Proposal	Topic	Type of Action
SEP-210830728	ERASMUS-EDU-2022-CBHE	ERASMUS-EDU-2022-CBHE-STRAND-2	ERASMUS-LS

Objectives

- Improve the quality of higher education in third countries not associated to the Erasmus+ programme and enhance its relevance for the labour market and society
- Improve the level of competences, skills and employability potential of students in HEIs in the third countries not associated to the Erasmus+ programme by developing new and innovative education programmes
- Promote inclusive education, equality, equity, non-discrimination and the promotion of civic-competences in higher education in the third countries not associated to the Erasmus+ programme
- Enhance the teaching, assessment mechanisms for HEI staff and students, quality assurance, management, governance, inclusion, innovation, knowledge base, digital and entrepreneurial capacities, as well the internationalisation of HEIs in the third countries not associated to the Erasmus+ programme
- Increase the capacities of HEI, bodies in charge of higher education and competent authorities of third countries not associated to the Erasmus+ programme to modernise their higher education systems, particularly in terms of governance and financing, by supporting the definition, implementation and monitoring of reform processes
- Improve the training of teachers and continuous professional development in order to impact the longer term quality of the education system in the third countries not associated to the Erasmus+ programme
- Stimulate cooperation of institutions, capacity building and exchange of good practice
- Foster cooperation across different regions of the world through joint initiatives

MISSING

Region 5 - Asia

Digital transformation

Regions involved in the project

Define the type of the project :

- National project
- Multi-country project

Project implementation

Number of higher education institutions (universities) located in remote regions/area 4

Number of newcomer/less experienced coordinating higher education institutions (universities) to the CBHE action

not yet involved in CBHE projects 0

Coordinating HEI - involved in 1 to 3 CBHE projects 1

Coordinating HEI - involved in 4 or more CBHE projects 0

Number of newcomer/less experienced partner higher education institutions (universities) to the CBHE action

not yet involved in CBHE projects 2

Partner HEI - involved in 1 to 3 CBHE projects 2

Partner HEI - involved in 4 or more CBHE projects 0

People with fewer opportunities

Is your project addressing people with fewer opportunities?

- Yes
- No

People with disabilities

People with health problems

People suffering from social and economic barriers

People suffering from discrimination because of gender, age, ethnicity, culture, religion, beliefs, sexual orientation

People facing geographical barriers

Refugees, migrants and internally displaced people

Number of students/staff/other target groups with fewer opportunities to be involved in the project 10

Target groups from the third country(ies) not associated to the Erasmus+ programme involved in the project

Number of students following the courses/study programmes (at Bachelor, Master, PhD level) 150

Number of students to be trained/involved in the mobility (studying) 10  Associated with document Ref. Ares(2022)8776869 - 16/12/2022

Number of students/staff females to be involved in the project 75

Number of students/staff with practical placements 40

Number of academic staff to be trained 40

Number of university administrative staff to be trained 4

Number of staff from Ministries and other public authorities to be trained 0

Number of people to be trained that are not enrolled in HEIs 0

Higher Education Institutions (HEI) - Cooperation agreement(s)

Is the project going to establish any cooperation agreement(s) with relevant stakeholders?

Yes No

- HEIs not involved in the project
- Associations, civil society organisations and NGOs
- Public organisations
- Local authorities in the third countries not associated to the Erasmus+ programme
- Private sector
- Social enterprises
- Research institutions
- Others

Higher Education Institutions (HEI) - Courses/Study programmes/Placements/Structures

Number of new courses 20

Number of new study programmes 2

- New joint study programmes
- New interdisciplinary study programmes

Number of updated courses 20

Number of updated study programmes 2

- Updated joint study programmes
- Updated interdisciplinary study programmes

Number of study programmes with practical placements 2

Number of new or modernised structures/units/centres/hubs to be created 4

Number of new or modernised labs 4

Impact at the Higher Education sector

Does the proposal intend to impact the Higher Education (HE) sector in the participating third countries not associated to the Erasmus+ programme?

Yes No

- New national policies or legislative framework in HE
- New regional policies or legislative framework in HE
- Contribution to the creation of a regional HE area (facilitate national and cross-border recognition, support mobility of teachers, learners and workers)
- Include the active participation of students in governance and reform of the HE system
- Strengthen the links between education, research and innovation
- Contribute to the reform of higher education policies that respond to societal and labour market needs
- Develop schemes that facilitate the employability of graduates

Other sources of funding

Does the proposal complement other local/national/international sources of funding?

Yes No

ANNEX 2**ESTIMATED BUDGET (LUMP SUM BREAKDOWN) FOR THE ACTION**

Estimated EU contribution								
Estimated eligible lump sum contributions (per work package)								Maximum grant amount ¹
Forms of funding	WP1 Requirements Analysis	WP2 Development of ICT Environmental Research Centers	WP3 Development of Academic Modules	WP4 Capacity Building	WP5 Dissemination and Exploitation	WP6 Quality Assurance	WP7 Project Management	
	Lump sum contribution	Lump sum contribution	Lump sum contribution	Lump sum contribution	Lump sum contribution	Lump sum contribution	Lump sum contribution	
	a	b	c	d	e	f	g	h = a + b + c + d + e + f + g
1 - UMA	14 771.00	13 740.00	24 758.00	23 372.00	11 768.00	12 110.00	11 931.00	112 450.00
2 - SSUET	14 478.00	43 427.00	11 487.00	11 325.00	9 009.00	4 887.00	10 026.00	104 639.00
3 - MUET	14 478.00	43 427.00	11 487.00	11 325.00	9 009.00	4 887.00	10 026.00	104 639.00
4 - UPB	12 961.00	8 118.00	18 827.00	17 404.00	5 103.00	10 997.00	10 840.00	84 250.00
5 - MTU	12 317.00	8 197.00	23 612.00	19 274.00	12 221.00	13 444.00	14 681.00	103 746.00
6 - BUIEMS	14 478.00	43 427.00	11 487.00	11 325.00	9 009.00	4 887.00	10 026.00	104 639.00
7 - NUTECH	14 478.00	43 427.00	11 487.00	11 325.00	9 009.00	4 887.00	10 026.00	104 639.00
8 - Alfoze								
9 - PEC								
Σ consortium	97 961.00	203 763.00	113 145.00	105 350.00	65 128.00	56 099.00	77 556.00	719 002.00

¹ The 'maximum grant amount' is the maximum grant amount fixed in the grant agreement (on the basis of the sum of the beneficiaries' lump sum shares for the work packages).

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

SIR SYED UNIVERSITY OF ENGINEERING AND TECHNOLOGY (SSUET), PIC 915845289, established in MAIN UNIVERSITY ROAD BLOCK 5 GULSHAN E IQBAL, KARACHI 75300, Pakistan,

hereby agrees

to become beneficiary

in Agreement No 101082866 — ACTIVE ('the Agreement')

between UNIVERSIDAD DE MALAGA (UMA) and the European Education and Culture Executive Agency (EACEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

MEHRAN UNIVERSITY OF ENGINEERING & TECHNOLOGY (MUET), PIC 948276657, established in MAIN ADMINISTRATIVE BUILDING AQ AFGHAN ROAD SINDH, JAMSHORO 76062, Pakistan,

hereby agrees

to become beneficiary

in Agreement No 101082866 — ACTIVE ('the Agreement')

between UNIVERSIDAD DE MALAGA (UMA) and the European Education and Culture Executive Agency (EACEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

UNIVERSITATEA POLITEHNICA DIN BUCURESTI (UPB), PIC 999842342, established in SPLAIUL INDEPENDENTEI 313 SECT 6, BUCHAREST 060042, Romania,

hereby agrees

to become beneficiary

in Agreement No 101082866 — ACTIVE ('the Agreement')

between UNIVERSIDAD DE MALAGA (UMA) and the European Education and Culture Executive Agency (EACEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

MUNSTER TECHNOLOGICAL UNIVERSITY (MTU), PIC 892106673, established in ROSSA AVENUE BISHOPSTOWN, CORK T12 P928, Ireland,

hereby agrees

to become beneficiary

in Agreement No 101082866 — ACTIVE ('the Agreement')

between UNIVERSIDAD DE MALAGA (UMA) and the European Education and Culture Executive Agency (EACEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

BALUCHISTAN UNIVERSITY OF INFORMATION TECHNOLOGY ENGINEERING AND MANAGEMENT SCIENCES - BUIITEMS (BUIITEMS), PIC 902714884, established in AIRPORT ROAD BALELI TAKATU CAMPUS, QUETTA 87300, Pakistan,

hereby agrees

to become beneficiary

in Agreement No 101082866 — ACTIVE ('the Agreement')

between UNIVERSIDAD DE MALAGA (UMA) and the European Education and Culture Executive Agency (EACEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

ANNEX 3

ACCESSION FORM FOR BENEFICIARIES

NATIONAL UNIVERSITY OF TECHNOLOGY (NUTECH), PIC 884673951, established in MAIN IJP ROAD, SECTOR I-12, ISLAMABAD 44000, Pakistan,

hereby agrees

to become beneficiary

in Agreement No 101082866 — ACTIVE ('the Agreement')

between UNIVERSIDAD DE MALAGA (UMA) and the European Education and Culture Executive Agency (EACEA) ('EU executive agency' or 'granting authority'), under the powers delegated by the European Commission ('European Commission'),

and mandates

the coordinator to submit and sign in its name and on its behalf any **amendments** to the Agreement, in accordance with Article 39.

By signing this accession form, the beneficiary accepts the grant and agrees to implement it in accordance with the Agreement, with all the obligations and terms and conditions it sets out.

SIGNATURE

For the beneficiary

FINANCIAL STATEMENT FOR THE ACTION FOR REPORTING PERIOD [NUMBER]

EU contribution												
Eligible lump sum contributions (per work package)												Requested EU contribution
WP1 [name]	WP2 [name]	WP3 [name]	WP4 [name]	WP5 [name]	WP6 [name]	WP7 [name]	WP8 [name]	WP9 [name]	WP10 [name]	WP [XX]		
[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	[Lump sum contribution// Financing not linked to costs]	
Forms of funding												
Status of completion	COMPLETED	PARTIALLY COMPLETED	PARTIALLY COMPLETED	COMPLETED	NOT COMPLETED							
	a	b	c	d	e	f	g	h	i	j	k	$l = a + b + c + d + e + f + g + h + i + j + k$
1 – [short name beneficiary]												
1.1 – [short name affiliated entity]												
2 – [short name beneficiary]												
2.1 – [short name affiliated entity]												
X – [short name associated partner]												
Total consortium												

The consortium hereby confirms that:

The information provided is complete, reliable and true.

The lump sum contributions declared are eligible (in particular, the work packages have been completed and the work has been properly implemented and/or the results were achieved; see Article 6).

The proper implementation of the action/achievement of the results can be substantiated by adequate records and supporting documentation that will be produced upon request or in the context of checks, reviews, audits and investigations (see Articles 19, 21 and 25).

ANNEX 5

SPECIFIC RULES

INTELLECTUAL PROPERTY RIGHTS (IPR) — BACKGROUND AND RESULTS — ACCESS RIGHTS AND RIGHTS OF USE (— ARTICLE 16)

Rights of use of the granting authority on results for information, communication, publicity and dissemination purposes

The granting authority also has the right to exploit non-sensitive results of the action for information, communication, dissemination and publicity purposes, using any of the following modes:

- **use for its own purposes** (in particular, making them available to persons working for the granting authority or any other EU service (including institutions, bodies, offices, agencies, etc.) or EU Member State institution or body; copying or reproducing them in whole or in part, in unlimited numbers; and communication through press information services)
- **distribution to the public** in hard copies, in electronic or digital format, on the internet including social networks, as a downloadable or non-downloadable file
- **editing** or **redrafting** (including shortening, summarising, changing, correcting, cutting, inserting elements (e.g. meta-data, legends or other graphic, visual, audio or text elements extracting parts (e.g. audio or video files), dividing into parts or use in a compilation
- **translation** (including inserting subtitles/dubbing) in all official languages of EU
- **storage** in paper, electronic or other form
- **archiving** in line with applicable document-management rules
- the right to authorise **third parties** to act on its behalf or sub-license to third parties, including if there is licensed background, any of the rights or modes of exploitation set out in this provision
- **processing**, analysing, aggregating the results and **producing derivative works**
- **disseminating** the results in widely accessible databases or indexes (such as through ‘open access’ or ‘open data’ portals or similar repositories, whether free of charge or not.

The beneficiaries must ensure these rights of use for the whole duration they are protected by industrial or intellectual property rights.

If results are subject to moral rights or third party rights (including intellectual property rights or rights of natural persons on their image and voice), the beneficiaries must ensure that they

comply with their obligations under this Agreement (in particular, by obtaining the necessary licences and authorisations from the rights holders concerned).

Access rights for the granting authority, EU institutions, bodies, offices or agencies and national authorities to results for policy purposes

The beneficiaries must grant access to their results — on a royalty-free basis — to the granting authority, other EU institutions, bodies, offices or agencies, for developing, implementing and monitoring EU policies or programmes.

Such access rights are limited to non-commercial and non-competitive use.

The access rights also extend to national authorities of EU Member States or associated countries, for developing, implementing and monitoring their policies or programmes in this area. In this case, access is subject to a bilateral agreement to define specific conditions ensuring that:

- the access will be used only for the intended purpose and
- appropriate confidentiality obligations are in place.

Moreover, the requesting national authority or EU institution, body, office or agency (including the granting authority) must inform all other national authorities of such a request.

Access rights for third parties to ensure continuity and interoperability

Where the call conditions impose continuity or interoperability obligations, the beneficiaries must make the materials, documents and information and results produced in the framework of the action available to the public (freely accessible on the Internet under open licences or open source licences).

COMMUNICATION, DISSEMINATION AND VISIBILITY (— ARTICLE 17)

Additional communication and dissemination activities

The beneficiaries must engage in the following additional communication and dissemination activities:

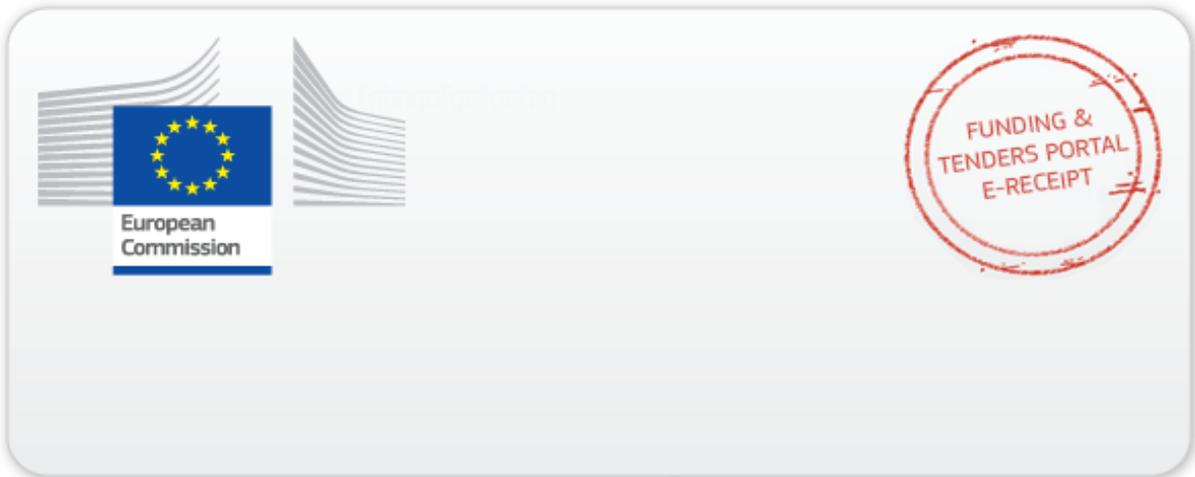
- **present the project** (including project summary, coordinator contact details, list of participants, European flag and funding statement and project results) on the beneficiaries' **websites** or **social media accounts**
- for actions involving public **events**, display signs and posters mentioning the action and the European flag and funding statement
- upload the public **project results** to the Erasmus+ Project Results platform, available through the Funding & Tenders Portal.

SPECIFIC RULES FOR CARRYING OUT THE ACTION (— ARTICLE 18)

EU restrictive measures

The beneficiaries must ensure that the EU grant does not benefit any affiliated entities, associated partners, subcontractors or recipients of financial support to third parties that are

subject to restrictive measures adopted under Article 29 of the Treaty on the European Union or Article 215 of the Treaty on the Functioning of the EU (TFEU).



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