

## Progression of Accessibility Centres in higher Education for Students with disabilities in North Africa (PACES)

**Project Number: 585901-EPP-1-2017-1-UK-EPPKA2-CBHE-JP  
(2017-2897/001-001)**

### **ERASMUS + KA2 Capacity Building in the field of Higher Education**

<b>DEV2.2</b>	<b>Equipment and staffing procured</b>
Prepared by	University of Maribor
Contributors	All partners
Work Package	WP2 - Establishment of Accessibility Centres
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## Tasks and outcomes of the DEV 2.2 Equipment and staffing procured

### Tasks

As a second part of WP2 Dev 2.2 is based upon work in Dev 2.1 and partly in WP1. The main goal is to build new Accessibility Centres (5) and to upgrade already existing (3). In this part of the project the purchase of equipment to facilitate the equal and accessible study will be performed. This task requires the purchase of equipment for the physically disabled, visually impaired and hearing impaired.

Based on the study in Dev 2.1 a suggested list of equipment was shaped. It has been a draft, which was adopted to specific needs and existing equipment of each university. For more help, UM team (leader of WP2) encouraged partners for purchasing suitable equipment with list of equipment & technical specifications for deaf/hard of hearing and blind/partially sighted students.

#### For blind and partially sighted (proposed):

- Magnifier software and hardware,
- Braille displayer/notetaker,
- Screen readers,
- Scanners for blind and partially sighted,
- Voice recorders,
- PDF converters and readers.

#### For deaf and hard of hearing users (proposed):

- Sign language interpreter web-based module (developed by University of Maribor),
- Video recording system together with subtitling option,
- Live subtitling system for live speech to text interpretation and presentation on the large display in the room,
- Use of video relay services for sign language interpretation at a distance,
- Multipoint FM system for hearing aid users.

Detailed list with technical specifications can be seen in Annex 1 and was used by partners while purchasing equipment. No specific brands or models were preferred.

There were also some risks pointed out at the beginning of this section of the project:

- Risks can arise with difficulties in introducing new technologies, such as the inability to adapt the existing computer centres for the introduction of new accessible systems and disorderly premises. Such risks can be avoided with the positive attitude of the management staff of the beneficiary institution to implement Accessible Centre.
- Procurement of equipment can be very time consuming and can cause delays. Therefore, it is important to start as soon as possible.

The first risk of dealing with new equipment was successfully overcome with help of partners and their specific knowledge through trainings for staff.

The second risk was causing some delays in purchasing equipment, which had effect on related activities, such as opening of the centres on schedule ... Some internal procedures at partnered universities (such as tender procedure) could not be foreseen in preparing phase of the project. Nevertheless, needed equipment was successfully purchased and installed.

## Activities

### Equipment

- As a part of DEV 2.1 each partner created his own action plan for purchasing equipment. Although those were plans, they do not differ from the later purchased equipment. It shows that the purchase was a well thought decision made by each partner and upon their specific needs and abilities, listed in DEV 2.1. List of EQUIPMENT PURCHASED can be seen in ANNEX 2).

### Staff

- Within the Paces meeting in Maribor (September 2018) the workshop on Staff in AC was held. Each partner prepared a plan of recruiting staff working in AC. Staff action plans are listed in ANNEX 3.

## Final situation – Accessibility Centre availability

Partners from Morocco and Egypt have been preparing requested additional information for final report.

### Existing AC – upgrade / re-opening

#### UNIVERSITÉ IBN TOFAIL (UIT)

Accessibility centre is set in campus of Ibn Tofail University and is opened 10 hours per day (8 a.m to 8 p.m) 6 days per week. Established was under the Tempus Swing project and has been equipped with specific equipment for students with specific needs identified in the ITU. It has been **upgraded with new equipment within PACES project**.

The main missions of center (2ESH) are:

- Welcome and identify the specific needs of each student with a disability to put in place appropriate actions
- To inform on the organization of the university: organization of the studies, the examinations and information on the contacts
- Accompany students to the pedagogical difficulties they may face
- To provide the interface between the students, the educational teams and the different services of the university
- Implement the necessary adjustments and seek solutions to the obstacles and difficulties that ESH might encounter
- Ensures the accessibility of classrooms and university services
- Travel aids: wheelchair or other equipment
- Arrangements for exams according to the type of disability to guarantee the equality of chances of the ESH with the others (the times increased, the accompany, room apart ...)
- provide help to compensate for the difficulties of manual writing or reading and to favor access to new information technologies: peripherals or adapted software (computers equipped with software and Internet connections, Braille printer, Braille notepad) , scanner, electronic magnifier, sound processing system, character recognition and translation software, speech synthesis system .....
- Specific training on tools and software
- Awareness, information and communication about disability
- Involvement of ESH in various sports and cultural events and events
- Development of statistical data considering disability issues in the UIT

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In addition to its missions, the new one installed as part of the project **Erasmus Plus PACES** is to help students to develop the skills needed to find jobs. In collaboration with the ITU Career and Development Center (CDC), the CDC provides soft skills training for students with specific needs and helps them find work at the enterprises.

In collaboration with ANAPEC, the center works in a network with many companies in the region. It provides the interface between the laureates and the companies and makes it possible to ensure the link between the request of internship and work of the students and the offer proposed by the companies

Name of Staff Allocated to AC	Role of staff for AC
Pr. AbdelazizRamadane KRIBII	Responsible of the centre
M. Abdelkader CHAMLAL	IT Engineer
Pr. Youcef HDOUCH	Professor
Pr. Karima SELMAOUI	Professor
M. Soufiane HAJBI	IT Engineer in charge of the web site
M. Issam EL KAIME	IT Engineer
Pr. Mariam CHARQAOU	Professor
Pr. Mohammed DAMIR	Vice President

Item	Enabling Disability (which students with the equipment assist?)
LCD- Descxtop Electronic Book Magnifier for low vision – Different viewing modes to optimize contrast & brightness	Students with low vision
Real time captioning / subtitling system	Students creative skills (making videos)
Logitech Wireless trackball M570	
Pc portable ProBook 450 G5Intel Core i7-8550U (1.8 GHz up to 4 GHz with Intel Turbo Boost , 8 MB cache , covers technology	Students with reduced mobility

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Portable speakers with mixer – system Type 2 Self powered 6.5 two way , bass reflex	Students with low vision
Portable microphone set – Earest and portable wireless microphone +receiver	For all students

**Users of AC since re-opening: 82 students**

27 % with low vision

71 % with reduced mobility

2 % with mental problem



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## Progression of Accessibility Centres in higher Education for Students with disabilities in North Africa



### Logiciels informatiques pour ESH

L'espace ZESH met à la disposition des étudiants en situation de Handicap des Logiciels accessibles pour faciliter l'utilisation de l'outil informatique : Logiciel de reconnaissance de caractères et de traduction, système de la synthèse vocale, lecture de liste, grossissement, interface accessible...

#### Logiciel de revue d'écran JAWS



Jaws est un logiciel pour PC Windows dont la principale fonctionnalité est d'intercepter l'information qui s'affiche sur l'écran de l'utilisateur, afin de la transmettre à un afficheur braille ou à une synthèse vocale. De cette manière, il devient accessible à un utilisateur aveugle pour qui la lecture à l'écran est impossible. L'environnement Windows est essentiellement graphique.

Jaws reconnaît un certain nombre d'objets standards de cet environnement tels que les boîtes de dialogue, les icônes du bureau, les éléments des listes... et les transforme en données brutes qui sont ensuite envoyées au...

URL: <http://2esh.uit.ac.ma/logiciel/>



Facebook: [Espace des Etudiants en Situation de](#)

[Handicap Ibn Tofail](#)

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**UNIVERSITÉ ABDELMALEK ESSAÂDI (UAE)**

- Accessibility centre is set at Faculty of Law and is opened all days in week, according to the students` requests. It has been upgraded with new equipment. It is located in the AC, established in SWING project, but has been upgraded with equipment and staff.

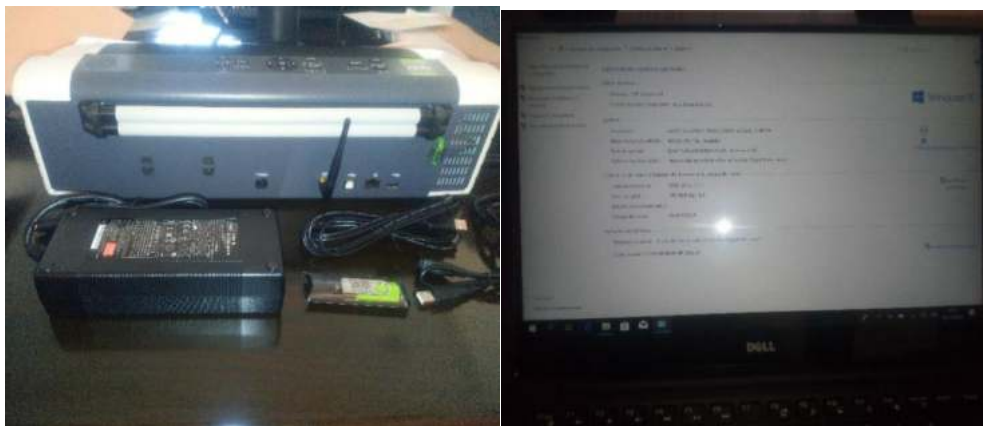
Name of Staff Allocated to AC	Role of staff for AC	Gender of Staff for AC
Mohamed Yahyaoui	IT Manager	Male
Miloudi Khazar	Charged of the AC	Male

Item	Enabling Disability (which students with the equipment assist?)
Milestone 312 AC	Blind or partially blind
Loupe électronique explore 5	Blind or partially blind
DELL XPS13 MLK Intel (R) Core (TM) i7-8550	Blind or partially blind
Index Basic DV5	Blind or partially blind
Logitech Wireless Trackball M570	Blind or partially blind

**SWING EQUIPMENT**

**Users of AC since re-opening:** 40 students

Partner`s comment: “Students made great use of the AT equipment and they found it very helpful in their education process.”



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### ARAB ACADEMY (AASMT)

Arab Academy offers various premises in the University to their students.

- 1) **021** (Abu Qir Campus, Alexandria) – **Main AC**
- 2) **106 CS\*** (Abu Qir Campus, Alexandria)
- 3) **G 001** (Abu Qir Campus, Alexandria)
- 4) **CS Library** (Abu Qir Campus, Alexandria)
- 5) **B 002** (Miami Campus, Alexandria) – **AC**
- 6) **A 317** (Miami Campus, Alexandria)
- 7) **A 209** (Miami Campus, Alexandria)
- 8) **211** (Sheraton Campus, Cairo)

All these rooms are under the umbrella of the main campus (Abu Qir Campus, Alexandria). There is no equipment in G 001 because it is mainly responsible for the Volunteering works.

The equipment is well installed in three labs, (106 CS\*, A 317, A 209 and 211), based in three campuses; the equipment was used during the training of staff and students. The labs were open for all students with disabilities to support them in their study.

It is open from Sunday till Thursday from 08:30 AM – 3:30 PM during the academic semesters but during the summer vacation from 09:30 AM to 01:30 PM.

Name of Staff Allocated to AC	Role of staff for AC	Gender of Staff for AC
<b>Dr. Aliaa Mounir</b> (Abu Qir Campus, Alexandria)	The main responsible for AC	Female
<b>Dr. Safaa Allam</b> (Miami Campus, Alexandria)	Communication & Administrative Staff	Female
<b>Dr. Abeer BadrEldeen</b> (Sheraton Campus, Cairo)	Communication & Administrative Staff	Female
<b>Mr. Warda ElAzab</b> (Abu Qir Campus, Alexandria)	Communication & Administrative Staff	Female
<b>Eng. El Sayed Barakat</b> (Abu Qir Campus, Alexandria)	Technical Staff	Male
<b>Mr. Ahmed Hassan Abdelsamiaa</b> (Miami Campus, Alexandria)	Technical Staff	Male
<b>Mr. Ahmed Lotfy</b> (Sheraton Campus, Cairo)	Technical Staff	Male

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Item	Enabling Disability (which students with the equipment assist?)
Four HIMS BrailleSense U2 MINI (Braille displayer + note taker)	For Blind & Visual Impairments Students in room <b>106 CS*</b> (Abu Qir Campus)
One INDEXBRAILLE Everest-D5 V5 (Braille Printer)	For Blind & Visual Impairments Students in room <b>211</b> (Sheraton Campus, Cairo)
Twenty Braille Keyboard Label	For Blind & Visual Impairments Students in room <b>106 CS*</b> (Abu Qir Campus)
Five Joysticks- mouse alternative	For mobility disability in room <b>106 CS*</b> (Abu Qir Campus)
Two Personal Induction hearing loops	For Students with hearing disability in room <b>106 CS*</b> (Abu Qir Campus)

**Users of AC since re-opening:** 24 students

**Partner`s comment:** “The feedback from the SwD were satisfied that AASTMT is offering more equipment in more labs in the university campuses. Also, they were very happy from the support that offered by certain individuals from PACES Project Team and some support from professors and college administration. However, SwD urge that the culture of entire instructors and students will be rise and more friendly with them.”



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## NEW AC

### AIN SHAMS UNIVERSITY (ASU)

**Partner managed to establish**Two ACs; one is in Faculty of Medicine and the other is in Faculty of Engineering. They are opened since June 2019. Opening hours are: Sunday to Thursday 0900 till 1900 during academic term and from 900 to 1400 during summer vacation.

Name of Staff Allocated to AC	Role of staff for AC
Wael Abbas	Equipment handling and students support
Mostafa Shafer	Equipment handling and students support

Item purchased in PACES	Enabling Disability (which students with the equipment assist?)
Glass Magnifiers	Visual impairment
Electronic Book Magnifiers	Strong Visual impairment
Magnification Software on PC	Visual impairment

**Users of AC:** 12

**Partner`s comment:** “Students were very happy from this support. They faced some difficulties using the equipment but have been overcome with the support of our staff.”



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### FAYOUM UNIVERSITY (FU)

AC is set in the Central lecture building and has been put into pre-operation in March 2018. It is open Sunday to Thursday from 8:30 am till 3:00 pm.

Name of Staff Allocated to AC	Role of staff for AC
Prof. Sanaa Haroon	Director of AC
Mr. Rajo Rezk	Assist Director
Mr. Maged Girges	Sign Language translator
Ms. Ayat Sayed	Secretary

Item	Enabling Disability (which students with the equipment assist?)
- Sign language Dictionary (2nd edition)	For Students with hearing disability
- Deaf reader Translator	For Students with hearing disability
- Learn Arabic language for deaf student	For Students with hearing disability
- Takhatob APP (android )	For Students with hearing disability
- Interactive board system	For Blind & Visual Impairments Students
- All in one L.C.D video conference	For Blind & Visual Impairments Students
- Cisco 24 port switch	All categories
- UPS 3000va	All categories
- Server	All categories
- Headphone speaker	All categories
- Jaws screen reader	For Blind & Visual Impairments Students

### Users of AC: 37

**Partner`s comment:** “Students are very eager to use the assistive technology that does not exist in the university before.”





### Mansoura University (MU)

The Accessibility Center is located at the Faculty of Education on Campus of Mansoura University. It is on the first floor and accessible to all SwD in the university. The aim of the Centre is to provide quality service to all university students with special care to SwD. It aims at establishing Inclusion among students with and without disabilities. How are we going to achieve this? The AC is provided with a number of devices that facilitate university life (academically and socially) for SwD in Mansoura University. (List of Equipment and usage is provided)

AC has been put in use in June 2019. It is open from 9 to 4 all days of the week because most of the disabled live on campus during university time.

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Name of Staff Allocated to AC	Role of staff for AC		Gender of Staff for AC
Prof Fathy Al Zayat	Coordinator and Supervising		Male
Eng. Mohamed Shehata	Technical advisor and coordinator		Male
Dr. Inas El Zayyat	Director of the AC		Female
Ms Shrouk Yasser	Students' coordinator		Female
Mr. Mohammad Abdel Fatah	Employer		Male

- Staff in the AC is trained to deal with SwD and willing to help any time.
- The management of the AC has created a very strict list of DO's and Don'ts that guarantee full acceptance on the part of the SwD
- Staff is responsible for managing time according to the needs of the students and should have a plan on how to help students effectively.
- Staff is fully responsible for meeting the expectations of the SwD on THREE dimensions: Technically, Socially, and Academically.
- Students should be introduced to the volunteering scheme, names and majors of the volunteer students, availability time and year of study. (Freshmen, Sophomores, Juniors, or Seniors).

Item	Enabling Disability (which students with the equipment assist?)
Victor reader stream	Visual
Screen reader(Acapela TTS voices for NVDA)	Visual
Prodigi LCD – Desktop Electronic book	Visual/ hearing/mobility
Handheld Magnifier	Visual
Sign Language Interpreter video module for web	Hearing
Small Room loop amplifier	Hearing
Laptop	Visual/hearing

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LG Smart LED TV	Visual / hearing/ mobility
Hovercam Web Camera	Hearing/ visual
LOBO Portable Mixer & Speakers	Hearing / Visual
Mipro Portable Mic	Hearing/ mobility/visual
Smart Board MX 265	Hearing / visual

**Users of AC: 10**

**Partner`s comment:** “They were very excited. Honestly, they did not believe that these types of facilities are available specially the visually impaired because they usually have hard time with their academic life.”



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### UNIVERSITÉ MOULAY-ISMAIL (UMI)

AC is set at the presidency and the School of Arts and Humanities and was opened on 15. 06. 2019. For now it is open on 2 selected day of week from 8:30 – 12:00 and from 14.30 to 18.00.

Name of Staff Allocated to AC	Role of staff for AC	Gender of Staff for AC
AYACHI FATIHA	Ensure access to equipment	Female
GHANJAOUY Ayoub	Technical support	Male

Item	Enabling Disability (which students with the equipment assist?)
lecteur d'écran JAWS Professionnel multilingues ILM	Visual
Zoomtext avec parole (Activation internet)	Visual
Merlin Classic HD 24"	Visual
Afficheur braille focus 40 blue	Visual
Imprimante braille Viewplus Delta	Visual
Loupe électronique Ruby XL HD 5"	Visual
Module mains libre LOGITECH P710E	Visual
ordinateur portable lenovo ideapad S540-14IWL I5-8265U 14, 8GB - 256	Visual

**Users of AC:** 14

**Partner`s comment:** "Students are very satisfied and ask for expanded access to equipment."



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### Université Mohammed V de Rabat (UM5R)

AC is open from Monday to Saturday from 8h to 18h.

Name of Staff Allocated to AC	Role of staff for AC
Mderssi Hafida	*Director of the reception, information, orientation and follow-up center- Mohammed V University *Project coordinator
Dinia Mohammed	*Team member *Trainer specializing in employability
Amzil Amine	Team member Trainer specializing in soft skills
Bouthkil Meryem	Team member Material Manager
Amzil Amal	In charge of the PACES file at the presidency of UM5R- International Relations. Head of Strategic Watch

Item	Enabling Disability (which students with the equipment assist?)
Jaws	For Blind & Visual Impairments Students
Merlin classic HD 24 - magnifier	For Blind & Visual Impairments Students
Afficheru braille – Braille display	For Blind & Visual Impairments Students
Imprimante braille Viewplus delta - Braille Viewplus delta printer	For Blind & Visual Impairments Students
Logitech C930e – mobile webcam	For Students with hearing disability
Logitech P710 – mobile speakerphone	For Blind & Visual Impairments Students
Logitech group conference cam	For Students with hearing disability
Yamaha stage PAS400i – mobile speaker/mixer	For Blind & Visual Impairments Students
JTS MH850 + wireless receiver (microphone)	For Blind & Visual Impairments Students
Dell Inspiron 15 - Laptop	All categories

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**Users of AC:** around 20

**Partner`s comment:** “The students find that the accessibility center helps them a little but it does not answer all their needs which remain enormous maus legitimate: accessible courses, exams in adverse conditions, Braille bookstores, daily transport, health, ...

In short, they want the people in charge of this kind of program to do their utmost to ensure that governments put in place a real inclusion strategy.”



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## ANNEX 1 – List of equipment – technical specifications

### Equipment for blind and partially sighted students

EQUIPMENT	SPECIFICATIONS
<p><b>Screen reader for blind and partially sighted</b></p>	<ul style="list-style-type: none"> <li>• Multi-lingual synthesizers</li> <li>• OCR feature for image files or inaccessible PDF documents</li> <li>• Supports PEARL Camera for direct access to Print documents or books</li> <li>• Works with Microsoft Office, Google Docs, Chrome, Internet Explorer, Firefox, Edge and other</li> <li>• Supports Windows® 10, Windows 8.1, and Windows 7, including touch screens and gestures</li> <li>• Fully compatible with ZoomText, Fusion, MAGic, and the OpenBook Scanning and Reading</li> <li>• Software Includes drivers for all popular Braille displays</li> <li>• Includes voices for over 30 different languages</li> </ul>
<p><b>Screen magnification and screen reading</b></p>	<ul style="list-style-type: none"> <li>• Magnification levels from 1x to 60x</li> <li>• Support for Touch Screen Devices</li> <li>• Dual Monitor Support</li> <li>• Multiple magnification levels between 1x and 4x</li> <li>• High-definition text and crisp fonts</li> <li>• High-definition mouse and cursor enhancement options</li> <li>• Built-in color enhancements</li> <li>• Speech options add human-sounding voices to speak text</li> <li>• JAWS compatible</li> <li>• Runs on Windows 8 and Windows 10"</li> </ul>
<p><b>"LCD – Desktop Electronic Book Magnifier for Low Vision"</b></p>	<ul style="list-style-type: none"> <li>• Different viewing modes to optimize contrast &amp; brightness</li> </ul>

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	<ul style="list-style-type: none"> <li>• Up to to 85x adjustable magnification (varies with LCD screen size)</li> <li>• Computer compatible</li> <li>• Color select options</li> <li>• Auto focus</li> <li>• 24" LCD Monitor</li> <li>• Screen pivots, tilts and swivels in all directions</li> <li>• Adjustable brightness</li> </ul>
<b>Braille displayer</b>	<ul style="list-style-type: none"> <li>• Navigation keys and function keys</li> <li>• Multiple languages</li> <li>• Reading and saving to SD card"</li> </ul>
<b>Smartphone for blind and partially sighted</b>	<ul style="list-style-type: none"> <li>• Basic Smartphone functionalities (phone, email, calculator, calendar, radio, audio books, web)</li> <li>• Voice recording</li> <li>• Built-in synthetic voice, acoustic signals and vibration</li> <li>• Message dictation</li> <li>• Magnifier</li> <li>• SD cards</li> </ul>
<b>Handheld magnifier</b>	<ul style="list-style-type: none"> <li>• Zoom magnification up to 22x</li> <li>• Near-distance View</li> <li>• Auto focus</li> <li>• HD quality Image</li> <li>• Color contrast settings</li> <li>• Image capture</li> </ul>
<b>Braille printer</b>	<ul style="list-style-type: none"> <li>• Receive data from computer and emboss in braille onto paper</li> <li>• Speed at least 40 characters per second</li> </ul>
<b>Portable speakers with mixer</b>	<ul style="list-style-type: none"> <li>• System Type2 Self powered 6.5", two-way, bass-reflex</li> <li>• SPL Output 113 dB or more</li> <li>• Input connectors: 6 inputs (2 Mono Mic/Line, 2 x Stereo) or more</li> <li>• Power Rating 160 W (2 X 80W) or more</li> <li>• EQ: Individual channel Bass and Treble controls, center detent, +/-12 dB cut and boost or similar</li> </ul>
<b>Portable microphone set</b>	<ul style="list-style-type: none"> <li>• Earset and portable wireless microphone + receiver</li> <li>• Operating range (up to): 100 m</li> </ul>

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	<ul style="list-style-type: none"><li>• Adjustable gain control</li><li>• Quick and easy frequency matching</li><li>• AA batteries for up to 14 hours of continuous use</li></ul>
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### Equipment for deaf and hard of hearing students

EQUIPMENT	SPECIFICATIONS
<b>Sign Language Interpreter Video Module for Web</b>	<ul style="list-style-type: none"> <li>• Video player for sign language on the ordinary web page</li> <li>• On the screen movable video player</li> <li>• Include video of sign language interpreter, audio and subtitling</li> <li>• Easy integration into the web page with the one sentence code</li> <li>• HTML 5 compatible</li> </ul>
<b>Real-time captioning/subtitling system</b>	<ul style="list-style-type: none"> <li>• Wireless captioning during presentations</li> <li>• Conversion of spoken text into written text by captioner</li> <li>• Compatible with keyboards Qwerty, Velotype, Stenotype</li> <li>• Powerpoint plugin</li> <li>• Multiple language support</li> </ul>
<b>"Webinar and videoconferencing system - computer hardware "</b>	<ul style="list-style-type: none"> <li>• ZOOM licence for XX concurrent users and YY rooms (together with captioning solution)</li> </ul>
<b>Induction hearing loops - mobile version</b>	<ul style="list-style-type: none"> <li>• Connects to the audio line level output of sound systems</li> <li>• Provide coverage of up to 300 seats per system</li> <li>• Amplifier space rack mount</li> <li>• Compatible with t-coil equipped hearing aids and cochlear implants</li> <li>• Induction Loop Receiver for monitoring the system's performance</li> <li>• Interface with PA audio mixers or wireless microphone systems</li> </ul>
<b>Personal FM system</b>	<ul style="list-style-type: none"> <li>• Creates A Direct Link Between Listener and Speaker</li> <li>• Hearing Aid &amp; Cochlear Processor Compatible</li> <li>• Internal audio processing that emphasizes the speech frequencies</li> <li>• Telecoil compatible</li> </ul>

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	<ul style="list-style-type: none"> <li>• Microphone and AUX connector</li> <li>• Battery Charging</li> </ul>
<b>Portable laptop</b>	<ul style="list-style-type: none"> <li>• Operating system: Windows 10 Pro 64</li> <li>• Processor: Intel® Core™ i7 processor (i7-7500U model) or Intel® Core™ i5 processor (i5-7200U model)</li> <li>• Memory: 4 GB or more</li> <li>• Internal drive: 256 GB SSD or more</li> <li>• Graphics: AMD Radeon 520 or similar</li> </ul>
<b>Large screen TV</b>	<ul style="list-style-type: none"> <li>• Size: 139 cm (at least 55" size)</li> <li>• Resolution: Full HD 1920×1080</li> <li>• HDMI / USB port</li> <li>• Wireless connectivity</li> <li>• Internet access</li> </ul>
<b>Webcam</b>	<ul style="list-style-type: none"> <li>• FULL HD (1080P AT 30FPS or more)</li> <li>• Streaming: 720P AT 60FPS</li> <li>• USB</li> <li>• Compatibility: Windows 10 or similar"</li> </ul>

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## ANNEX 2 – Equipment Purchased

PARTNER: AIN SHAMS UNIVERSITY

Item	Quantity	Description
Screen Magnifiers (hw/sw)	4	The hardware screen magnifiers is used mainly for small screen devices while the software is introduced as mobile App or a desktop application for PCs
Screen Readers (sw)	2	This is the software mainly used to read the PC screen for people who found difficulties in that.
Electronic Book Magnifier (hw)	2	This piece of hardware is mainly used for books magnifications to overcome reading difficulty in case of small font books for people who face this difficulty in general
Realtime Capturing System (sw + hw)	2	This is for lecture real time streaming helping in publishing lectures on large and personal screens for people who have difficulty in direct lecture observation
Large Screen TV (75 inch) (hw)	2	Through large screens lectures and other academic presentations and demonstrations could be viewed for better vision specially for those who suffer from visual impairment
Speech to Text SW	2	For people who faces writing difficulty on the PC, this software will help in this issue by writing the speech the user says in varieties of software applications
Video Conferencing System ( <b>We will not use Zoom</b> ) (hw,sw)	--	This will be used for online meetings and conferencing to reach the max number of targeted persons
Desktops for accessibility center	4	To be used in accessibility center
Handheld Magnifier	20	For visual impairment cases help
Portable Microphone Set (hw)	2	For hearing impairment cases help
Sound Insulation for Recording/Video conference Room		For better sound conditions through online meetings

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**PARTNER: IBN TOFAIL**

Item	Quantity
LCD – Desktop Electronic Book Magnifier	1
Real-time captioning/subtitling system	2
Logitech Wireless Trackball M570	2
PC Portable HP ProBook 450	8
Portable speakers with mixer	1
Portable microphone set -Earset and portable wireless microphone + receiver	1

**PARTNER: UNIVERSITÉ ABDELMALEK ESSAËDI**

Item	Quantity
Electronic loupe	1
Index Basic D V5 light weight braille embosser – Index Braille	1
Smart assistant Milestone 312 Aee	1
Real time captioning system	2
Logitech wireless trackball	1
Pc portable Dell	1
Pc Portable HP proobook i5	5
Pc Portable HP proobook i7	5
Zoom license	1

**PARTNER: UNIVERSITÉ MOHAMMED V DE RABAT**

Item	Quantity
Jaws	1
Merlin classic HD 24 - magnifier	1
Affichero braille – Braille display	1
Imprimante braille Viewplus delta - Braille Viewplus delta printer	1
Logitech C930e – mobile webcam	1
Logitech P710 – mobile speakerphone	1
Logitech group conference cam	1
Yamaha stage PAS400i – mobile speaker/mixer	1
JTS MH850 + wireless receiver (microphone)	1
Dell Inspiron 15 - Laptop	2

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### PARTNER: FAYOUM UNIVERSITY

Item	Quantity
HP laser jet pro	1
Xerox 3515 dn	1
Toshiba Monitor 65 inch	1
Interactive Board System (1) + sound system	1
Accesibility center	1
Wooden computer desk	2
Chairs	3
table	4
Electricity and light accesories	5
Go vision magnifier	1
Supernova screen reader	1
Index everest braille embosser	1
Sign language dictionary	8
Deaf reader (translator) online version	40
Learn arabic language for deaf online version	40
Takhatob app android	17
Arabic OCR online (60,000 pages for five years)	

### PARTNER: UNIVERSITÉ MOULAY-ISMAIL

Item	Quantity
LECTURER D'ECRAN JAWS Professionnel multilingues ILM	1
Zoomtext avec parole (activation internet)	1
Merlin classic Hd 24	1
Afficheur braille FOCUS 40 blue 5G	1
Imprimante braille Viewplus Delta	1
Loupe electronique Ruby XL HD 5	1
Logitech Microphone Module MAINS LIBRES P710E	1
Portable Lenovo ideapad 530s i5	1

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**PARTNER: MANSOURA UNIVERSITY**

Screen reader	Acapela TTS voices for NVDA	1
LCD- Desktop Electronic Book Magnifier for Low vision	Prodiagi Desktop Electronic Magnifier 24 in	1
braille display	Brailiant BI 32 braille display	1
Handheld Magnifier	Magnifying glass	2
Sign language interpreter video module for web	Sign language interpreter video module for web dictionary	1
Small Room Loop Amplifier	Williams Sound PLA 240, Small Room Loop Amplifier	1
Laptop:	DELL Inspiron: Core I7, 8GB RAM, 1TB HDD, 15.6" Screen, 4GB VGA Card.	2
Smart LED Screen TV	65 inch LED TV (LG )	1
Digital audio recorder	Vector Reader Stream	1
WEB Camera	Hover Cam Solo 5	1
Portable Mixer with Speaker	Lobo NJ-215 A	1
Portable Mic	Mipro MR-801a	1
Braille Sense	HIMS BrailleSense U2 MINI (displayer + Note taker )	1
Braille printer	Everest-D V5	1
Personal FM Radio	Williams Sound PFM Pro RCH Personal FM System	1
Smart Board	Smart Board MX 265 series	1

**PARTNER: Arab Academy for Science, Technology and Maritime Transport (AASTMT)**

Item	Quantity
Personal hearing loops	2
INDEXBRAILLE Everest-D5 V5 - (Braille Printer)	1
HIMS BrailleSense U2 MINI (Braille displayer + note taker)	4
Braille Keyboard Label	20
Joysticks- mouse alternative	5

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## ANNEX 3 – Staff Action Plans

### 1. University: Arab Academy for Science, Technology and Maritime Transport (AASTMT), EGYPT

Staff	Name	Position	Tasks	Contact
1	Prof. Mohamed M. Abo Elazm	Dean of Students affairs	<ul style="list-style-type: none"> <li>Seeks to develop and renew the quality of cultural, creative, artistic and sports activities by providing the best services to students with social guidance and continuous follow-up to all students, specially students with disabilities</li> <li>Represents the main pillar in supporting students with disabilities in all activities and taking advantage of their time alongside their academic achievement.</li> </ul>	<a href="mailto:m.aboelazm@aast.edu">m.aboelazm@aast.edu</a> +20111-7444-261
2	Dr. Alyaa Mounir	Head of follow up department at student affairs & Head of AC at AASTMT	<ul style="list-style-type: none"> <li>Coordinating with the director of housing administration on the housing of students with disabilities.</li> <li>Coordination with faculty members to give students with disabilities additional time in exams.</li> <li>Arranging meetings with the student councils of AASTMT to help new students with disabilities to introduce all places &amp; halls.</li> <li>organizing the celebration of the international day of the disables</li> </ul>	<a href="mailto:dr.alyaamounir@hotmail.com">dr.alyaamounir@hotmail.com</a> +201005335886

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			<ul style="list-style-type: none"> <li>• Participation of students with disabilities in the celebration of those with special needs, orphan day&amp; trips.</li> <li>• supervising the office's work of disability centers in the student association</li> <li>• Assist students with disabilities &amp; integrate in student activities.</li> <li>• Develop a member with special needs of student councils.</li> </ul>	
3	Dr. Safaa Alaam	Head of Social Department Responsible for AC at Miami Campus	<ul style="list-style-type: none"> <li>• Receiving the new students with disabilities.</li> <li>• Helping the students with any obstacles and try solving the problems that faces them during their education period.</li> <li>• Work on proposals that contribute to increase the integration of students with disabilities within the Academy.</li> <li>• Participation and coordination with Head of departments that will deal with students with disabilities and the development of strategic plans that provide them with the provision of services and increase student's integration within the Academy.</li> </ul>	+201227380655
4	Mrs. Warda Mohamed Hassanien Azab	Social Activities Specialist. Responsible for AC at Abuqir Campus	<ul style="list-style-type: none"> <li>• Receiving the new students with disabilities.</li> <li>• Directing the students to the classes and all departments around the campus.</li> </ul>	+201001351468

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			<ul style="list-style-type: none"> <li>Helping the students with any obstacles and try solving the problems that faces them during their education period.</li> <li>Ensure the safety and safety of the facilities of the college to suit their circumstances such as ATM - elevator - their walkway.</li> </ul>	
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## 2. University: **Ain Shams University, EGYPT** University Project Leader: **Tamer Elnady**

	Name	Position	Tasks	Contact
<b>Staff</b>				
1	Ahmed Yahia	Project Manager	Equipment Procedures: <ul style="list-style-type: none"> <li>Selecting and deterring the needed equipment for different disability cases.</li> <li>Getting the needed technical specifications for the needed equipment.</li> <li>Working on equipment purchasing procedures.</li> </ul> Virtual Accessibility Setup <ul style="list-style-type: none"> <li>Setting up and publishing services where the students with disability can submit</li> </ul>	<a href="mailto:a.yehia@eng.asu.edu.eg">a.yehia@eng.asu.edu.eg</a>

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			requests related to their cases.	
2	Nabil Mohamed Hamed	Professor	Physical Center Setup <ul style="list-style-type: none"> <li>Setting up the physical accessibility center in Faculty of Engineering – Ain Shams University.</li> </ul> Staffing Procedures <ul style="list-style-type: none"> <li>Started Staff determination and recruitment process for working in accessibility center in Faculty of Engineering – Ain Shams University.</li> </ul>	<a href="mailto:nabil.hamed@eng.asu.edu.eg">nabil.hamed@eng.asu.edu.eg</a>
3	Mostafa Yusuf	Professor	Physical Center Setup <ul style="list-style-type: none"> <li>Setting up the physical accessibility center in Faculty of Medicine – Ain Shams University.</li> </ul> Staffing Procedures <ul style="list-style-type: none"> <li>Started Staff determination and recruitment process for working in accessibility center in Faculty of Medicine – Ain Shams University.</li> </ul>	<a href="mailto:m_el_shahed@med.asu.edu.eg">m_el_shahed@med.asu.edu.eg</a>
4	Samar Abdelazim	Professor	Equipment Procedures <ul style="list-style-type: none"> <li>Selecting and deterring the needed equipment for different disability cases.</li> </ul>	<a href="mailto:samarazim@gmail.com">samarazim@gmail.com</a>

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**3. University: Fayoum University, EGYPT**  
**University Project Leader: Prof.Dr. Sanaa Haroon**

	Name	Position	Tasks	Contact
<b>Staff</b>				
1	Sanaa Haroon	Director of biotechnology Department  Project leader	<ul style="list-style-type: none"> <li>Guide and supervise of different activities that related to all financial and administration and writing all reports directed to the centre of accessibility centre to be send ready for the project coordinator</li> <li>Following up and supervising the activities for the disability centre</li> <li>Direct contact with the ministry of Social Solidarity concerning the special need for the disability student</li> </ul>	<a href="mailto:Sanaaharoon1951@gmail.com">Sanaaharoon1951@gmail.com</a>
2	Rezk, Rajo	Assist Director of biotechnology Department  Assist Director of disability centre  Responsible for the organizing of the disable national day	<ul style="list-style-type: none"> <li>Responsible of running the different activities that conduct every day in the centre</li> <li>Organize Workshops – meeting agenda for the staff</li> <li>Write the reports to the project leader</li> <li>Try to solve any problem that exist through the Day and reported to the project leader in case of conflict</li> <li>IT support for student to use the equipment in centre</li> </ul>	<a href="mailto:Rajoco2222@gmail.com">Rajoco2222@gmail.com</a>
3	Maged Gergis	Sign language translator  Trainer of the sign language in the accessibility centre	<ul style="list-style-type: none"> <li>Responsible for the organizing meeting with students</li> <li>Train disabilities students and How can use of assistive technology supported from the assist Director</li> </ul>	
4	Dr. Mohamed shaabaan	Lecturer in the college of specific education	<ul style="list-style-type: none"> <li>Responsible for supervising and conducting different activities for student and staff</li> <li>Support the dean of college of specific education for receiving the new disability student and registration</li> </ul>	

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			proceeding and replacement for the student safety and all needed support for them	
5	Prof. Dr. AHMED FATHI	Dean of college of specific education	<ul style="list-style-type: none"> <li>Supervise the activities with the student</li> <li>Discuss all the activities with the project leader concern the financial aid and all support for disable student</li> <li>Direct contact with the vice president of the student offers of any problem that face disable student during semesters or through the midterm or final exams</li> <li>Watch out disabled student academic achievement</li> </ul>	

#### 4. University: **Mansoura University, EGYPT** University Project Leader: **Prof. Fathy Mostafa Al Zayat**

	Name	Position	Tasks	Contact
<b>Staff</b>				
1	Prof. Fathy Al Zayat	Coordinator of the project  Professor of Learning Disabilities and Special Education ( Faculty of Education)	<ul style="list-style-type: none"> <li>Supervising members of the centre according to the needs of the users (SwD)</li> <li>Providing support to students and their problems and attempting to solve.</li> <li>Coordinating with higher management to facilitate the learning process for SwD.</li> </ul>	<a href="mailto:fmzayyat@yahoo.com">fmzayyat@yahoo.com</a>  +201067678500
2	Dr. Inas Elzayyat	Ph.D in Linguistics & Lecturer in the Department of Foreign Languages (Faculty of Education)	<ul style="list-style-type: none"> <li>Arrange meetings and meeting with SwD to clarify the purpose and the facilities provided by the center</li> <li>Coordinating with university members to give students with disabilities additional time in exams.</li> <li>Supervising the office's work of disability centers in the student association</li> </ul>	<a href="mailto:ifelzayyat@hotmail.com">ifelzayyat@hotmail.com</a>  +201006446615

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			<ul style="list-style-type: none"> <li>Assist students with disabilities &amp; integrate in student activities.</li> <li>Supervising the going ons of work and activities in the center.</li> <li>Cooperating with all staff who deal with SwD in the university to remove any future obstacles facing the students.</li> </ul>	
3	Dr. Hoda Ali	Director of the Public Relations office in the Faculty of Education & has Ph.D. in Special Education	<ul style="list-style-type: none"> <li>Responsible for all paper work of the centre.</li> <li>Receiving new comers with disabilities and showing them what can be done for them on the part of the centre.</li> <li>Helping and supporting SwD .</li> <li>Attempting to prevent any social or academic problem any student with disability might confront in the university.</li> </ul>	<a href="mailto:Hoda79_ali@yahoo.com">Hoda79_ali@yahoo.com</a> +201062617319

## 5. University: **Abdelmalek Essaadi University, MOROCCO**

### University Project Leader: **Prof. Ahmed El Moussaoui**

	Name	Position	Tasks	Contact
<b>Staff</b>				
1	Mohammed El Yahyaoui	Engineer in the Presidency	<ul style="list-style-type: none"> <li>Responsible for the Accessibility Centre</li> </ul>	<a href="mailto:m.yahyaoui.mohammed@gmail.com">m.yahyaoui.mohammed@gmail.com</a>
2	Najat Radi	Administrative in the Presidency	<ul style="list-style-type: none"> <li>Foreign students' affairs</li> </ul>	<a href="mailto:najat@uae.ma">najat@uae.ma</a>
3	Farida Hammouda	Administrative in the Presidency	<ul style="list-style-type: none"> <li>Scientific Research and PhD scholarships</li> </ul>	<a href="mailto:faridahammouda@hotmail.fr">faridahammouda@hotmail.fr</a>
4	Iman Raissouni	Professor	<ul style="list-style-type: none"> <li>Project manager</li> </ul>	<a href="mailto:raissounimane@yahoo.fr">raissounimane@yahoo.fr</a>
5	Badr Eddine Souhail	Professor	<ul style="list-style-type: none"> <li>IT expert</li> </ul>	<a href="mailto:bssouhail@yahoo.fr">bssouhail@yahoo.fr</a>

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**6. University: Ibn Tofail University, MOROCCO**  
**University Project Leader: Prof. Karima Selmaoui**

	Name	Position	Tasks	Contact
<b>Staff</b>				
1	Karima Semaoui	Head of the International Relations Office	<ul style="list-style-type: none"> <li>Develop academic relations with partners in different countries</li> <li>Design mobility exchange programmes</li> <li>Supervise the implementation of different projects in terms of financial and administrative reporting</li> </ul>	<a href="mailto:Karima_selmaoui@yahoo.fr">Karima_selmaoui@yahoo.fr</a> 212-694500459
2	Kribii Abdelaziz	Director of the Accessibility Centre	<ul style="list-style-type: none"> <li>Run the day-to-day matters</li> <li>Coordinate with different offices to facilitate the integration of students with disabilities (registration, infrastructure, etc.)</li> <li>Organise training workshops for students with disabilities on the use of assistive technology</li> </ul>	<a href="mailto:arkribii@yahoo.fr">arkribii@yahoo.fr</a> 212-694500145
3	Youcef Hdouch	Full Professor	<ul style="list-style-type: none"> <li>Responsible for the preparation of documents in English</li> <li>Organises workshops for staff and students with disabilities</li> <li>Responsible for the dissemination of the project in Morocco</li> </ul>	<a href="mailto:yhdouch@yahoo.com">yhdouch@yahoo.com</a> 212-661306575
4	Mohammed Damir	Vice President In charge of pedagogical affairs	<ul style="list-style-type: none"> <li>Supervise the different training programmes</li> <li>Coordinate with the ministry on pedagogical matters</li> <li>Responsible for guarantying financial aid for students</li> </ul>	<a href="mailto:mdamir1ster@gmail.com">mdamir1ster@gmail.com</a> 212-661859963

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**7. University: Moulay Ismail University, MOROCCO**  
**University Project Leader: Prof. Omar Oussouaddi**

	Name	Position	Tasks	Contact
<b>Staff</b>				
1	Dr. Omar Oussouaddi	Vice-President In charge of pedagogical affairs	<ul style="list-style-type: none"> <li>• Develop academic relations with partners in different countries</li> <li>• Design mobility exchange programmes</li> <li>• Supervise the implementation of different projects in terms of financial and administrative reporting, - coordinate with different offices to facilitate the integration of students with disabilities (registration, infrastructure, etc.)</li> <li>• Assist students with disabilities to have easy integration in the job market.</li> <li>• Coordinating with associations that deal with the disabled.</li> <li>• Sign conventions with many stakeholders, associations and governmental and non-governmental organizations</li> </ul>	<a href="mailto:o.oussouaddi@umi.ac.ma">o.oussouaddi@umi.ac.ma</a>  212-661408858
2	Dr. Mohamed Benasser	Director of Higher School of Technology, Meknes	<ul style="list-style-type: none"> <li>• Organise seminars and conferences for students with disabilities on the use of assistive technology</li> <li>• Assist students facing obstacles and problems during their education period.</li> <li>• Provide technical staff to be charge of the accessibility centre.</li> <li>• Coordinating programs of strategic plans that would help the integration of students in the job market.</li> </ul>	<a href="mailto:mbennaser@yahoo.fr">mbennaser@yahoo.fr</a>  212-661077084
3	Dr. Mohammed Larouz	Full Professor	<ul style="list-style-type: none"> <li>• Conduct research and Meet students with disabilities</li> <li>• Provide translation of documents from and into English</li> </ul>	<a href="mailto:m.larouz@flsh.umi.ac.ma">m.larouz@flsh.umi.ac.ma</a>  212-661315950

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		Head of the department of English	<ul style="list-style-type: none"> <li>Assistance and guidance of how to use ICT to students with disabilities</li> <li>Organises workshops for staff and students with disabilities</li> <li>Responsible for the dissemination of the project in Morocco.</li> <li>Expert and reviewer of projects submitted for accreditation with the ministry of Higher Education</li> </ul>	
4	Dr. Laila Nassiri Vice-dean Faculty of Sciences		<ul style="list-style-type: none"> <li>Supervise the different training programmes</li> <li>Coordinate with the Vice-president of academic affairs in issues related to students with disabilities</li> <li>Responsible for guarantying financial aid for students</li> <li>Arrange meetings for workshops and administrative staff within the university</li> </ul>	<a href="mailto:Nassiri_layla@yahoo.fr">Nassiri_layla@yahoo.fr</a>  212-661648256

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**8. University: Mohammed V De Rabat University, MOROCCO**  
**University Project Leader: Prof. Hafida Mderssi**

	Name	Position	Tasks	Contact
<b>Staff</b>				
1	Dr. Hafida Mderssi	Research Professor  Director of the Reception, Information, Orientation and Monitoring Center	<ul style="list-style-type: none"> <li>• To welcome students with specific needs to offer them the services of the Center:               <ul style="list-style-type: none"> <li>○ Meeting with guidance counselors</li> <li>○ Benefit from language workshops, communication, support and cultural practices: singing, theater, debate, ...</li> <li>○ Participation in University events</li> <li>○ Benefit from training sessions provided by a blind computer engineer</li> <li>○ Benefit from regular professional coaching sessions</li> <li>○ To intervene with the heads of the establishments so that they facilitate the task to these students: accessibility, courses, formulas of exams ...</li> </ul> </li> <li>• Impact of students with special needs in international events: COP 22, International Exhibition of Publishing and Books.</li> <li>• Encourage them to create a good dynamic: a blind person prepares to lead a workshop to the seers (project in progress)</li> <li>• Organize solidarity actions for students with special needs</li> <li>• Mobilize the different people and structures working in the disability field</li> </ul>	<a href="mailto:h.mderssi@um5s.net.ma">h.mderssi@um5s.net.ma</a>  212 661193515

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2	Dr. Ilham Berrada	Research Professor  Vice President of Academic and Student Affairs	<ul style="list-style-type: none"> <li>It manages all student data: registration, training, evaluation.</li> <li>Encourages colleagues to become more interested in the needs of students with special needs.</li> <li>Is interested in the annual statistics component</li> </ul>	<a href="mailto:Ilham.Berrada@um5.ac.ma">Ilham.Berrada@um5.ac.ma</a>  212 661492565
3	Dr. Mohammed Dinia	Research Professor	<ul style="list-style-type: none"> <li>Proceed to research in the field of disability</li> <li>Ensure focus group sessions</li> <li>Take an interest in the issue of Employability of this population</li> <li>Mobilize colleagues to get involved in the disabled site.</li> </ul>	<a href="mailto:diniamo@yahoo.fr">diniamo@yahoo.fr</a>  212 676759957
4	Dr. Amine Amzil	Research Professor	<ul style="list-style-type: none"> <li>Provide English classes for students with special needs.</li> <li>Coach and support these students in their academic career</li> <li>To manage the exchange of UM5R students with other students, as part of intercultural programs.</li> </ul>	<a href="mailto:m.boutkhil@um5s.net.ma">m.boutkhil@um5s.net.ma</a>  212 668550986
5	Meryem Boutkhil	<ul style="list-style-type: none"> <li>Administrative</li> <li>Computer science</li> </ul>	<ul style="list-style-type: none"> <li>Manage the database of students with special needs</li> <li>Manage the material</li> <li>Provide training to other computer scientists at UM5R to learn how to handle Braille material</li> <li>Provide training for students with special needs</li> </ul>	212 666034562

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