MEETING 1
BLUETOOTH

A. LEARNING OBJECTIVES.

After finishing this session, students are able to express ideas in English, understand reading text about Bluetooth, understand listening, able to translate and able to write sentences in English.

B. DEFINITION OF PHRASE

A phrase is a word or words that don't have subject and verb to make meaning, but it is not a complete sentence. Phrases can be very short or quite long.

For Example:

He is using **the latest MacBook Pro laptop**.

The part of above sentence "**the latest Macbook Pro laptop**" is called phrase because it has no verb. A phrase can't be called a sentence because it doesn't have a verb.

After lunch, Doni went to computer class.

After lunch = a phrase

 The example of phrases put together in the sentences :

 The super computer is displaying massive data.

 The super computer = *Noun Phrase*

is displaying = *verb phrase*

computer science students are busy studying coding during the semester

during the semester = *adverb phrase*

he has new and shopisticated computer .

new and shopisticated = *adjective phrase*

There are 5 kinds of phrases in English phrase, they are;

1. Verbs phrase
2. Noun phrase
3. Adverbs phrase
4. Adjective phrase
5. Noun Phrase;
6. Prepositional Phrase.

More example about phrases

1) I hope <u>to master several language programming</u>.

   (noun phrase as an object)

2) The man <u>in brown shirt</u> is language programming lecturer.

   (phrase as an adjective)

3) Did you enjoy <u>studying language programming</u>?

   (Noun phrase as an object)

4) The children was excited <u>about their new gadget</u>

   (phrase as prepositional phrase)

5) <u>The Data communication and networking system</u> is long range connection.

   (noun phrase)

6) My cell phone <u>is equipped</u> with Bluetooth.

   (verb phrase)

7) Many devices are <u>wireless connection</u>.

   Phrase as an object

8) Ericson corporation <u>was developed</u> Bluetooth for the first time.

   (Verb phrase)

9) <u>Personal Data Assistant and blackberry</u> were used Bluetooth application.

   (noun phrase)

10) <u>Linux Operating system</u> support Bluetooth.

    (noun phrase)

C. EXERCISES

   1. Structure

   1.1 Decide whether underlined below are prepositional phrases, adjective phrase, noun phrase or adverb phrases.

1) The Bluetooth connection is <u>short range operation</u>

2) Miguel likes to study <u>about computer engineering</u>.

3) <u>All the day</u>, many students spend time in computer lab.

4) Bill made an application <u>for final assignment in this semester</u>

5) Network devices are essential <u>for smart living</u>

6) <u>The day before the campus day</u>, Andy visited the campus to check the classroom.

7) With great skill, the programmer made <u>complicated program </u>on computer.

8) Elizabeth's design about animation earned prize <u>on the designing competition.</u>

9) <u>The price of the new released computer </u>is affordable.

10) Most of Apple products are <u>very expensive </u>for students.

11) <u>Before an evening of relaxation</u>, Erin likes checking his computer lesson.

12) Please send me <u>the confidential document through mail.</u>

13) Medical devices can be improved by using <u>Bluetooth technology.</u>

1.2 Underline the prepositional phrase, adjective phrase, verb phrase, adverb phrase in sentences below:

1. Bluetooth application can be found in every android hand phone.

2. Bluetooth could be utilized for long distance transmission .

3. A laptop is battery power that is good for radio transmission.

4. <u>Ericsson Corporation was invented Bluetooth.</u>

5. <u>Bluetooth is a application that can be used to connect between two gadgets.</u>

6. All home appliances will probably connect thought Bluetooth in the future

7. Bluetooth is supported by Linux operating system.

8. Wide area networks use Wi-Fi application.

9. Personal Computers and laptops are equipped with Bluetooth.

10. These days, all devices can connect to android phone.

11. Bluetooth is widely used for transferring data from phone to speakers.

12. Fundamental Bluetooth operation are found in Bluetooth version 2.1

1.3 complete the sentences below by using phrase in the box

a. Bluetooth connection	d. pairing devices	g. on-screen display
b. Ericson corporation	e. Bluetooth transmitter	h. remote control
c. Bluetooth device	f. wireless connection	i. other devices
	j. Bluetooth technology	

1) _____ is short length wireless communications technology to connect electronic devices.

2) Bluetooth technology was first developed by _____.

3) Making a connection between two _____is like making a phone call.

4) You must first register of each device after _____to complete Bluetooth connection.

5) Bluetooth headphone can be used with television by using _____.

6) Smart televisions are built with_____ technology built in.

7) You will see the headphone listed on your television _____

8) Select the headphone with your television's _____ to complete the process.

9) You can plug Bluetooth transmitter to connect your televisions with

_____.

10) _____ allows for data transmission up to 328 feet.

2. Speaking

2.1 Practice the conversation below!

Bill	Do you still use Bluetooth to transfer data?
Bob	Yes I do, in fact Bluetooth is becoming more sophisticated.
Bill	How can that be?
Bob	My headphone is Bluetooth technology. The speakers and many home appliances these days are Bluetooth technology
Bill	Do you think the Bluetooth technology can be used in many ways?
Bob	Yes recently there is toothbrush used Bluetooth technology. It will tell you how clean you brush your teeth.
Bill	Wow it sounds really cool. What else Bluetooth technology can do?
Bob	Well if you are difficult to fall asleep you might need iLE smart bed. This bed connect to phone which is able to unlock touch control for positioning and report sleep pattern.
Bill	Bluetooth technology is becoming very important in connecting devices.
Bob	Yes you are right. And it presences in smart living is improving.
Bill	Thank you for sharing that
Bob	My pleasure

2.2 discuss the questions below!

After discussing the questions above, record your answer with sound recording in your mobile phone.

https://techno.okezone.com/read/2019/01/30/207/2011550/standar-baru-bluetooth-5-1-diumumkan-ini-keunggulannya

1. can your Bluetooth android transfer file to speaker, or other audio device?
2.   How does it work?
3. Do you have Bluetooth in your all gadgets?
4. Do you often use Bluetooth to transfer data?
5. What kind of file do you often transfer using Bluetooth?
6. How big is data can be transfer using Bluetooth?
7. Is transferring data using Bluetooth effective? Why or why not?
8. Do you think the Bluetooth will still be popular in the future?
9. Is it possible for you to connect all the devices at home by using Bluetooth?
10. What do you the advantages of Bluetooth?

Example of the answer exercise 2.2

Jack	can Bluetooth transfer file to speaker, or other audio device? How?
Jill	yes Bluetooth can transfer file to audio device, I sometimes play music from my phone and transfer it my speaker.
Jack	How does it work?
Jill	It is easy you simply need to turn on both of the device and connect them.
Jack	Do you have Bluetooth in your gadget?
Jill	Yes I do, all of devices are equipped with Bluetooth
Jack	Do you often use Bluetooth to transfer data?
Jill	Yes. I often transfer data by using Bluetooth, when I listen to the music I use Bluetooth to transfer data to speaker.
Jack	What kind of file do you often transfer using Bluetooth?
Jill	I usually transfer video, document, picture, music with Bluetooth
Jack	How big is data can be transfer using Bluetooth?
Jill	I think Bluetooth can transfer data 400 megabits
Jack	Is transferring data using Bluetooth effective? Why or why not?
Jill	It depends on condition and character of the file. It means when the file is small and there is no internet connection you can use Bluetooth to transfer data. or when you need to listen to the music from your phone, connect the phone to speaker.
Jack	Do you think the Bluetooth will still popular in the future?
Jill	Yes it is. Bluetooth will even more popular because all house appliances will connect to Bluetooth in the future
Jack	What are the advantages of Bluetooth?
Jill	It is simple, it doesn't need internet connection and all devices are equipped with Bluetooth.

3. **Reading**

3.1 Read loud and record your voice by using sound recording in your phone the article below!

3.2 Underline the phrase in the reading text

Bluetooth

https://avantree.com/ro/bluetooth-usb-adapter-for-pc-avantree-dg40sa

Bluetooth is a wireless data communications and networking system designed for relatively **short-range** operation (generally within the same room, although it can be used over longer **distances** up to several hundred feet [tens of meters]). The radio **transmission** is in the 2.4-GHz band and is typically low power, making it **suitable** for battery-powered devices such as laptops.

Applications

Bluetooth was originally **developed** by Ericsson Corporation to provide a wireless connection for mobile telephone headsets. Today it is often used to "sync" (update data) between a PDA (Personal Digital Assistant) such as a Blackberry or Palm (see PDA) with a Bluetooth-equipped laptop or desktop. Many cell phones are also **equipped** with

Bluetooth, allowing them to be dialed from a PDA, although the growing use of phones that **combine** telephony and PDA functions is making this scenario less common (see smartphone). Bluetooth can also be used for wireless keyboards, mice, or printers.

It is **possible** to connect PDAs or PCs to the Internet and local area networks using a Bluetooth wireless access point (WAP**) attached** to a router, but faster and longer **range** Wifi (802.11) wireless connections are much more widely used for this **application** (see Wifi).

Bluetooth connections between devices are **specified** using profiles. Profiles have been developed for common kinds of devices, specifying how data is formatted and **exchanged**. For example, there are profiles for controlling telephones, printers and faxes, digital cameras, and audio devices. Most modern operating systems (including Windows Mobile, Linux, Palm OS, and Mac OS X) **include** support for basic Bluetooth profiles. Functions **fundamental** to all Bluetooth operations are found in Bluetooth Core Specifications (version 2.1 as of August 2007). Planned **future enhancements** include **accommodatio**n for ultra-wide band (UWB) radio technology, allowing for data transfer up to 480 megabits per second. At the same time, Bluetooth is **extending** the ultra-low-power modes that are **particularly** important for wearable or **implanted** medical devices. (Encyclopedia of Computer Science and Technology Revised Edition by Harry Henderson

3.3 answer the question below:
1) What is Bluetooth?
2) Who developed Bluetooth?
3) What is the different between Bluetooth and Wifi?
4) Which is safer, Bluetooth or wifi?
5) What does sync mean?
6) What wireless devices connect to Bluetooth?
7) What is profile function?
8) what operation system support profiles?
9) What power modes that suitable for medical devices?
10) What will be like the future Bluetooth?

3.4 Mark True or False the statement below

1) Bluetooth designed for relatively long-range operation within different room.
   O true
   O false

2) Bluetooth use radio transmission is in the 2.4-GHz band.
   O true
   O false

3) Bluetooth can transfer data from laptop to palm PDA
   O true
   O false

4) The connection between personal computer to internet With Wifi (802.11) is faster that Bluetooth.
   O true
   O false

5) Only Windows support basic Bluetooth profiles.
   O true
   O false

6) Future Bluetooth will accommodate ultra-wide band (UWB) radio technology which allow you to transfer data below to 480 megabits per second.
   O true
   O false

7) Bluetooth with ultra-low-power modes will be important for medical tools
   O true
   O false

8) Wireless devices don't need Bluetooth
   O true
   O false

4. Listening

5.1 Listen to Sultan Issa Hampton talking about Bluetooth. Mark the statement correct or incorrect. For true statement mark correct. For false statements mark incorrect.

1) There are 97 different frequencies that radio wave can be received and sent by Bluetooth.

O incorrect

O correct

2) Bluetooth frequencies is 2.45 GHz.

O incorrect

O correct

3) The frequency of Bluetooth is the same frequency as radio television that is used in industrial and medical equipment.

O incorrect

O correct

4) It is impossible to find out about personal's life assist by using Bluetooth application.

O incorrect

O correct

5) Bluetooth has low power transmitters that unable to carry your signals far.

O incorrect

O correct

6) Wifi is more secure than Bluetooth.

O incorrect

O correct

7) You can interfere someone life by using Bluetooth.

O incorrect

O correct

8) Transfer data by using Bluetooth is safe

O incorrect

O correct

9) Bluetooth has high power transmitter

O incorrect   O correct

4.2 l**isten to Sultan Issa Hampton once more and complete the sentences below!**

https://dlpng.com/png/1501700

1. Radio waves can be _____ through Bluetooth application.

      a. Sent and received   c. fix

      b. Make   d. transfer

2. There are _____ different frequencies that Bluetooth can send

      a. 99   c. 97

      b. 79   d. 77

3. The transmitter in Bluetooth _____ carry signal in far distance.

      a. Will   c. can

      b. Will not   d. could

4. Bluetooth application has _____ transmitter.

      a. Far-range   c. short range

      b. Medium range   d. unlimited range

5. Bluetooth is _____ wireless network such as Wifi.

      a. More dangerous than c. as much secure as

      b. More secure than   d. all choices are not true

5. Writing

5.1 Translate the sentences below:

1) Wireless data communication that designed for sort range operation is called Bluetooth.

    _____

2) Bluetooth is used 4.2 GHz radio transmission.

    _____

3) Ericson corporation was first developed Bluetooth

    _____

4) Cell phones are equipped with Bluetooth.

    _____

5) Wireless devices like printers, keyboards, mice and speakers can use Bluetooth.

    _____

6) Wi-Fi is application that has longer area networking.

    _____

7) Profile is device that use to connection among devices

    _____

8) Operating system such as Linux, Palm OS, Mac OSX support Bluetooth.

    _____

9) Fundamental Bluetooth operations are core specification version 2.1

    _____

10) It is important for Medical devices to use Ultra low power.

    _____

5.2 Writing; writes sentences by using verbs below!

Example :

Wireless keyboard

wireless keyboard uses Bluetooth to connects to PC

1) networking system

   _____

2) The radio transmission

   _____

3) wireless connection

   _____

4) Many cell phones

   _____

5) operating systems

   _____

6) faster and longer

   _____

7) Bluetooth operations

   _____

8) Radio technology

   _____

9) Medical devices

   _____

10) Cell phones

   _____

6. key words

6.1 find the synonym and translate them!

English	Synonym	Indonesian
short-range, suitable, transmission, developed, equipped, combine, possible, attached, range, application, distances, specifying, implanted, particularly, extending		

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