PHONETICS OF ENGLISH

# ARTICULATORY FEATURES

## **LECTURE 4**

(SOURCE: LAKIC, 2019)

#### INTRODUCTION

- Definition articulatory features define speech sounds
- × 13 articulatory features
- Note: Distinctive features are traits which distinguish one phoneme from another.
  Articulatory features are traits which describe the articulation (=production) of speech sounds.

# **1. TYPE OF ARTICULATION**

- × Vowels
- × Consonants

## 2. MANNER OF ARTICULATION

- CONSONANTS: plozivi (plosives), afrikati (affricates), frikativi (fricatives), nazali (nasals),laterali (laterals), kontinuanti (continuants)
- VOWELS: monoftonzi (monophtongs), diftonzi (diphtongs), triftonzi (triphtongs)

# 2. MANNER OF ARTICULATION

- × Plosives
- Phases: implosion, occlusion (closure + hold), explosion (release), post-release phase

# 2. MANNER OF ARTICULATION

 Affricates – phases: implosion, occlusion, friction

/t∫, dʒ/

## 2. MANNER OF ARTICULATION

\* Fricatives- the obstacle is not completely closed and there is friction

> /f, v, θ, ð, s, z, ʃ, ʒ, h/ + sometimes /w, j, r/

#### 2. MANNER OF ARTICULATION

Nasals – the air goes through the nose, as the velum is lowered

/m, n, ŋ/

## 2. MANNER OF ARTICULATION

\* Laterals: the airstream proceeds along the sides of the tongue, but is blocked by the tongue from going through the middle of the mouth.

/\/

## **2. MANNER OF ARTICULATION**

× Continuants – semivowels (glides)

/w, j, r/

- If there is a strong voiceless consonant in front of them and if they are in a stressed syllable – then they are fricatives; PROUD /praud/, PURE /pjua/.
- If there is a weak voiced consonant in front of them or if they are word-initial – then they are continuants; RED /red/, YOUR /jo:/, WAR /wo:/.

## 2. MANNER OF ARTICULATION

- × Alternative classification:
- x plosives (plozivi): /p, b, t, d, k, g /
- × fricatives (frikativi): /f, v,  $\Theta$ , ð, s, z,  $\int$ , 3, h/
- × affricates (afrikate): /ʧ, ʤ/
- × nasals (nazali): /m, n, ŋ/
- × liquids (likvidi): /l, r/
- x glides / semi-vowels (poluvokali): /j, w/

#### 2. MANNER OF ARTICULATION

- × Vowels:
- 1. Part, red, net, keep monophthongs;
- 2.Pear /peə/, beer /bIə/, know /nəʊ/diphthongs;
- 3. Fire /faiə/, power /pauə/, player /pleiə/ triphthongs.

## **3. PLACE OF ARTICULATION**

- × This refers to consonants only;
- × Usneni (bilabial): /p, b, m, w/\*
- × Usneno-zubni (labio-dental): /f, v/
- × Zubni (dental): /θ, ð/
- × Alveolarni (alveolar): /d, t, l, n, s, z/
- Postalveolarni (post-alveolar): /r/
- Nepčano-alveolarni (palato-alveolar): /ʃ, ʒ, tʃ, dʒ/

\* Note: /w/ is sometimes described as labio-velar.

- × Nepčani (palatal): /j/
- × Velarni (velar): /k, g, ŋ/
- × Glotalni (glottal): /h/

## 4. FORCE OF ARTICULATION

- × Jaki (strong, fortis)
- × Slabi (weak, lenis)

## **5. VOICING**

- 1. Zvučni (voiced)
- 2. Bezvučni (voiceless)
- Zvučni: potpuno zvučni (fully voiced) i djelimično zvučni (partially voiced)
- × Vowels are voiced;
- × All strong consonants are voiceless;

## FORCE OF ARTICULATION AND VOICING:

× Okvirna podjela suglasnika:

v-less (strong, fotis)	p	t	k	f	θ	s	l	ťſ	h							
v-ed (weak, lenis)	b	d	g	v	ð	z	3	ф		m	n	ŋ	I	r	j	w

#### **6. TYPE OF EXPLOSION**

- \* This refers to plosives only;
- 1. Oral pot, talk, kite
- 2. Nasal, behind /m/ and /n/ mutton - /mʌtn/ sudden /ˈsʌdn/ topmost / 'tɒp, məʊst/
- 3. Lateral, before /l/ bottle /'bbtl/ middle /'mɪdl/
- 4. No explosion (at the end of the word) part /pa.t/ deep /di.p/ talk /tɔ:k/

## 7. DEGREE OF ASPIRATION

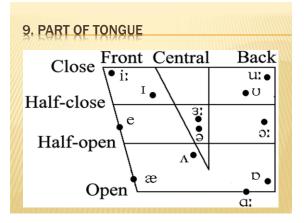
- Aspiration burst of breath heard after explosion;
- This refers to plosives only;
- 1. Aspirovani (aspirated): /p, t, k/
- 2. Neaspirovani (unaspirated): /b, d, g/

# **8. TONGUE POSITION**

- This refers to /l/ only;
- 1. Palatalised /l/ (tongue is raised toward the velum) occurs before a vowel (*lap, lord*) or before the glide /j/- (*billiard, scallion*) ... CLEAR/LIGHT L
- 2. Velarised /l/ (tongue is pulled back and the tip of the tongue is on the alveolar ridge) - occurs at the end of words (*call, trial*) and before consonants (*milk, hold*)... DARK L

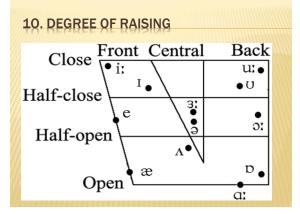
# 9. PART OF TONGUE

- This refers to vowels only;
- It refers to the part of tongue which is raised when articulating vowels:
- 1. Prednji (front)
- 2. Prednji do srednji (front to central)
- 3. Srednji (central)
- 4. Zadnji do srednji (back to central)
- 5. Zadnji (back)



# **10. DEGREE OF RAISING**

- × This refers to vowels only;
- It is based on the degree of tongue's raising;
- 1. Zatvoreni (close)
- 2. Poluzatvoreni (half-close)
- 3. Poluotvoreni (half-open)
- 4. Otvoreni (open)



## **11. DEGREE OF TENSION**

- × This refers to vowels only;
- 1. Napregnuti mišići (tense) npr. kod /u:/, /i:/, / 3:/
- 2. Srednje napregrenuti mišići (medium) npr. kod /e/
- 3. Opušteni mišići (lax) npr. kod / / / a:/

## **12. LIP POSITION**

- 1. Zaokružene (rounded) npr. kod /o/, /u/
- 2. Neutralne (neutral) npr. /æ/
- 3. Raširene (spread) npr kod /i/

#### **13. LENGTH**

- 1. Dugi (long) /i:/, /ɑ:/, /o:/, /u:/, /3:/
- 2. Kratki (short) /i/, /ʌ/, /æ/, /o/, /u/, /ə/, /e/

## STUDY Q'S (1)

- 1. What are articulatory features?
- 2. Explain the classification of speech sounds according to the type of articulation.
- 3. Explain the classification of consonants according to the manner of articulation.
- 4. Explain the classification of vowels according to the manner of articulation.
- 5. What are the phases in the articulation of plosives?
- 6. What are the phases in the articulation of affricates?
- 7. Explain the articulation of nasals. Which speech sounds are nasal?
- 8. Explain the articulation of laterals. Which speech sounds are lateral?
- 9. Which sounds are called semivowels?
- 10. Name the division of consonants according to the place of articulation.

#### STUDY Q'S (2)

- 11. Explain the division of sounds according to the force of articulation.
- 12. Explain voicing.
- 13. What types of explosion may occur in the articulation of plosives?
- 14. What is aspiration?
- 15. Explain the difference between the clear and the dark l.
- 16. According to the part of the tongue, what are the categories of vowels?
- 17. According to the degree of raising the tongue, what are the categories of vowels?
- 18. What positions can lips take when articulating speech sounds?19. What degree of tension may the muscles assume when articulating speech
- sounds?
- 20. According to the criterion of length, how can we classify vowels?