ALCOHOLIC BEVERAGES

WHISKY
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- **Session Objectives**-

- After completion one would be able to differentiate between various whiskies, able to recollect the manufacturing process and know the popular brands

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- DEFINITION
- ETYMOLOGY
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DEFINITION

- Whisky, or whiskey is an alcoholic beverage that is distilled from fermented grain mash and aged in wooden casks (generally oak).

- Grains used for different varieties are barley, malted barley, rye, malted rye, wheat, and maize (corn).
ETYMOLOGY

- Whisky derives from the Gaelic word for "water" (uisce or uisge) meaning "Water of Life".

- It is related to the Latin ‘aqua vitae’, also meaning "water of life".
WHISKY
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WHISKY

- Bung hole w/plug
- Hoop
- Hoop rivets
- Stave joint
- Head
- Stave
- Spigot
WHISKY
MANUFACTURING PROCESS

MALTING

MASHING

FERMENTATION

DISTILLATION
MANUFACTURING PROCESS

MATURATION

BLENDING

BOTTLING
MANUFACTURING PROCESS

- Barley is screened & then steeped in water for 48 hours
- Starch in the barley gets converted into sugar
- The damp barley is then spread out on a malting floor.
- Germination starts and it becomes “green malt”
MANUFACTURING PROCESS

- Roasting is done on peat fire on kilns.
- The peat or “reek” adds extra flavour to the barley which is now called “malt”.
- The roasted barley is crushed in mills to form grist.
MANUFACTURING PROCESS

- Grist is boiled with treated water for 36 hours and churned violently in a ‘mash tun’ to reactivate and extract the enzyme diastase and convert the starch into maltose and dextrose
MANUFACTURING PROCESS

- This is called mash
- This is completed in 3-4 washings
- The first two washings give a semi-transparent sweetish liquid called “wort”
- The remaining washings called “sparge” is used with the next batch
The “wort” is cooled to 16 °C and transferred to fermenting vats or steel ‘wash tuns’

Now cultured yeast is added for fermentation process
The enzymes convert the maltose in the “wort” to dextrose and then to alcohol and carbon dioxide.

The result is a beer like ‘wash’ with and alcoholic strength of 7-10%.
MANUFACTURING PROCESS

- The wash is distilled in a “Pot Still” which is known as a ‘wash still’ where alcohol separates and condenses as “low wines” which is a fairly weak and impure spirit.

- The result is then redistilled in another ‘pot still’ called as “Spirit Still”.

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MANUFACTURING PROCESS

- The first and last distillate called as ‘foreshots’ and ‘feints’ are pungent, crude and contains high degree of impurities.

- The main body called as ‘heart’ is a raw colorless whisky with a powerful aroma.

- Dilution is done using distilled water to reduce the alcoholic strength.
MANUFACTURING PROCESS

- The young whisky is pumped into casks of 33-144 gallons capacity where it matures for a minimum legal requirement of 3 years.

- But usually it is matured between 15 years and beyond.
MANUFACTURING PROCESS

- As the whisky rests air penetrates through the pores and mellows the whisky
- The damp conditions in the cellar reduces the alcohol content and slightly increases the volume
MANUFACTURING PROCESS

- Blending was first done in 1853
- Usually blending involved combining various malts and grains or whiskies from different distilleries
TYPES OF SCOTCH WHISKY

- MALT WHISKY
- GRAIN WHISKY
- BLENDED WHISKY
TYPES OF SCOTCH WHISKY

- MALT WHISKY
  - SINGLE CASK MALT
  - SINGLE MALT
  - VATTED MALT
TYPES OF SCOTCH WHISKY

- GRAIN WHISKY
- BLENDED WHISKY
- DELUXE WHISKY
- BLENDED WHISKY
MALT WHISKY REGIONS

- HIGHLAND MALTS
- LOWLAND MALTS
- CAMPBELTOWN MALTS
- ISLAY MALTS
  - ISLAY
  - JURA
  - MULL
  - ORKNEY
  - SKYE
OTHER WHISKIES

- American Whiskey
- Distilled from grains such as rye, corn, millet, and barley
- Usually made using the sour mash process
TYPES OF AMERICAN WHISKEY

- BOURBON
- RYE
- CORN
- STRAIGHT
- BLENDED
- BLENDED STRAIGHT
- BOTTLED IN BOND
- TENNESSE WHISKEY
OTHER WHISKIES

- **Canadian Whisky**-
  - It is distilled from several grains such as corn, wheat, malted barley and rye

- **Irish Whiskey**-
  - It is distilled from a fermented mash of malted barley, un-malted barley, corn, rye, and other small grains
<table>
<thead>
<tr>
<th>IRISH</th>
<th>SCOTCH</th>
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</thead>
<tbody>
<tr>
<td>DISTILLED THRICE IN A POT / PATENT STILL</td>
<td>DISTILLED TWICE IN A POT STILL</td>
</tr>
<tr>
<td>SPELT AS ‘WHISKEY’</td>
<td>SPELT AS ‘WHISKY’</td>
</tr>
<tr>
<td>MATURED FOR AT LEAST 5 YEARS</td>
<td>MATURED FOR AT LEAST 3 YEARS</td>
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<tr>
<td>ORIGINALLY NOT BLENDED</td>
<td>USUALLY BLENDED</td>
</tr>
<tr>
<td>SMOKY PEATY FLAVOR IS NOT INCORPORATED</td>
<td>PEATY SMOKY FLAVOR IS IMPREGNATED</td>
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SCOTCH WHISKY BRANDS

DELUXE

- ANTIQUARY
- CHIVAS REGAL
- HAIG
- DIMPLE
- OLD PARR
- RED HACKLE
- JOHNNIE WALKER BLACK LABEL
- USHERS DELUXE
SCOTCH WHISKY BRANDS

BLENDED

➢ Royal Salute
➢ Bells
➢ Black and White
➢ Cutty Sark
➢ Vat 69
➢ Teachers
➢ Hankey
➢ Bannister
➢ Ballantine
SCOTCH REGULAR

- J&B Rare
- Teachers
- Passport
- White Horse
- White Label
- Dewar’s
- Grants
- McKinley
CANADIAN WHISKIES

- Canadian Club
- Crown Royal
- Windros
- Golden Wedding
- Royal Reserve
- Black Velvet
- Wiser Deluxe
- G & W Special
IRISH WHISKIES

- John Jamesson
- Old Bushmills
- Tullamore Dew
- Paddy
- Dunphy’s Original Irish
- Power Gold Label
- Middleton Rare
AMERICAN WHISKEY

- Southern comfort
- Old Grand Dad
- Old Crow
- Old Turkey
- Jack Daniels
- Virginia Gentlemen
- Early times
- Jim Beam
- Old Forester
- G.W. Bourbon
INDIAN WHISKIES

- Peter Scot
- Single Malt
- McDowell's Signature
- McDowell's Premium
- Vintage
- Bagpiper’s Gold
- Colonel’s Special
- Director’s special
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THANK YOU

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