

Time period in days	Topics	links
5	<ul style="list-style-type: none"> What is Bot? Different components of BOT. Different framework to build Bot. Difference between MS bot framework and other. 	<ul style="list-style-type: none"> https://chatbotsmagazine.com/the-complete-beginner-s-guide-to-chatbots-8280b7b906ca https://botsociety.io/blog/2018/02/what-is-a-chatbot/ https://discover.bot/bot-talk/building-your-bot-coding-from-scratch-vs-using-a-bot-builder/
	<ul style="list-style-type: none"> MS Bot framework V4 overview concepts of Bot frame v4 MS bot framework lifecycle build a simple echo bot and understand the file structure and bot routing. 	<ul style="list-style-type: none"> https://docs.microsoft.com/en-us/azure/bot-service/?view=azure-bot-service-4.0 https://dev.botframework.com/#life-cycle https://github.com/microsoft/BotBuilder-Samples/tree/master/samples/javascript_nodejs/02.echo-bot
	<ul style="list-style-type: none"> Overview LUIS Build an app on LUIS Connect LUIS with the echo bot. 	<ul style="list-style-type: none"> https://docs.microsoft.com/en-us/azure/cognitive-services/luis/ https://docs.microsoft.com/en-us/azure/cognitive-services/luis/luis-quickstart-intents-only https://docs.microsoft.com/en-us/azure/bot-service/bot-builder-howto-v4-luis?view=azure-bot-service-4.0&tabs=javascript
1	<ul style="list-style-type: none"> Design a Multi-turn-prompt Bot Add cards to the bot Add adaptive cards in the bot 	<ul style="list-style-type: none"> https://github.com/microsoft/BotBuilder-Samples/tree/master/samples/javascript_nodejs/05.multi-turn-prompt https://github.com/microsoft/BotBuilder-Samples/tree/master/samples/javascript_nodejs/06.using-cards https://adaptivecards.io/samples/InputForm.html
2	<ul style="list-style-type: none"> Overview about MS QNA maker Make an app in QNA maker What is active learning in QNA maker? multiturn in QNA maker 	<ul style="list-style-type: none"> https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/ https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/tutorials/create-publish-query-in-portal https://docs.microsoft.com/en-us/azure/cognitive-

		services/qnamaker/how-to/improve-knowledge-base <ul style="list-style-type: none"> • https://docs.microsoft.com/en-us/azure/cognitive-services/qnamaker/how-to/multiturn-conversation
1	Design a QNA bot	https://github.com/microsoft/BotBuilder-Samples/tree/master/samples/javascript_nodejs/11.qnamaker
2	<ul style="list-style-type: none"> • Overview of context switching in chatbot • Handle different type of Bot events • How to manipulate LUIS data in bot. 	
3	Design a advance bot, with LUIS and QNA integration	Bot will contain different modules <ol style="list-style-type: none"> 1. HR (apply leave, leave balance, leave application status) 2. IT (FAQ on system troubleshoot, log tickets) 3. ADMIN (book conference room, check available room)
1	<ul style="list-style-type: none"> • Understand about different channel on which bot can be deployed and their limitations. • Deploy Bot on azure • Connect Bot with one of the channels 	https://docs.microsoft.com/en-us/azure/bot-service/bot-service-manage-channels?view=azure-bot-service-4.0
1	<ul style="list-style-type: none"> • Understand all the cognitive service and their application • Connect bot with Bing spell check and web search API 	<ul style="list-style-type: none"> • https://azure.microsoft.com/en-in/services/cognitive-services/ • https://docs.microsoft.com/en-us/azure/cognitive-services/bing-spell-check/
1	<ul style="list-style-type: none"> • Create a SQL DB on azure and connect it with the bot 	https://docs.microsoft.com/en-us/azure/sql-database/sql-database-connect-query-nodejs
3	<ul style="list-style-type: none"> • Overview of SFDC and its APIs • What is azure VPN gateway 	<ul style="list-style-type: none"> • https://developer.salesforce.com/docs/atlas.en-us.api_analytics.meta/api_analytics/analytics_api_report_list_resource.htm • https://docs.microsoft.com/en-us/azure/vpn-gateway/vpn-gateway-about-vpngateways
1	<ul style="list-style-type: none"> • What is directline? • Directline APIs. 	<ul style="list-style-type: none"> • https://docs.microsoft.com/en-us/azure/bot-service/rest-api/bot-

	<ul style="list-style-type: none"> Microsoft webchat UI 	framework-rest-direct-line-3-0-concepts?view=azure-bot-service-4.0 <ul style="list-style-type: none"> https://github.com/microsoft/BotFramework-WebChat

Note: Bot framework version will be V4. Direct line API version 3.0.