

Training Module for Amrit Interns

Module	Topic and Key Take Aways	Contents	Duration (in minutes)	Category
I	General Introduction of Programme <ul style="list-style-type: none"> ✓ About ICRO, IPL and NPC ✓ Overview of Amrit Internship Programme ✓ General Requirements for participating in Programme ✓ Other Activities of ICRO 	<ol style="list-style-type: none"> 1. https://docs.google.com/presentation/d/19cgDzGr-alGz8x9y5PyqeH1tH9V3Jkij/edit?usp=sharing&ouid=104895662277249373194&rtpof=true&sd=true (Presentation on AMRIT Interns) 2. https://drive.google.com/file/d/1IsKiU7SUzi3wLFZdrYYmQY4GoFcz0AHM/view?usp=sharing (Brochure) 	60:00	Essential
II	About Indian Agriculture <ul style="list-style-type: none"> ✓ About Production and Productivity of Different crops ✓ Types of cropping cycle ✓ Indian Agriculture vis-à-vis global Agriculture. ✓ Role of Agriculture in GDP of India ✓ Type of Farming ✓ Issues with Indian Agriculture ✓ Comparison between India and other countries on Productivity of different crops ✓ Farm land Holding 	3. भारतीय कृषि Agriculture in India in Hindi खाद्यान्न फसलें Geography MCQs Quiz - YouTube	24:54	Essential
		4. 'Doubling Farmers' Income' – YouTube	13:55 (Audio)	Essential
		5. भारत में कृषि Indian Agriculture Indian Geography study vines official - YouTube	41:37	Essential
		6. Bhartiya Krishi Ki Samsyaein / भारतीय कृषि की समस्यायें - YouTube	12:03	Essential
		7. Feature of Indian Agriculture/भारतीय कृषि की विशेषता. - YouTube	12:56	Essential
		8. Agriculture Role in Indian Economy Farmers Day खेती का देश के विकास में महत्वपूर्ण योगदान - YouTube	9:34	Optional
		9. indian agriculture gk in hindibharat ki krishi one liner mcq uppcs sscgq 2017 exams Part 1 – YouTube	14:07	Optional
		10. What will the future of agriculture look like? (E) (indiascience.in)	30:37	Optional
		11. L18: Characteristics & Problems – Indian Agriculture Indian Geography (UPSC CSE – Hindi) – YouTube	58:22	Optional
		12. DD Kisan's special program on Agriculture sector KRISHI DARSHAN - YouTube	28:15	Essential
		13. Understanding Cropping Seasons in India Kharif, Rabi, Zaid Factly – YouTube	3:01	Essential
III	Cropping Practices <ul style="list-style-type: none"> ✓ Monsoon and Indian Agriculture ✓ Understanding of Different Cropping Season 			

	<ul style="list-style-type: none"> ✓ Types of Crops ✓ Cropping System ✓ Sowing and Harvesting of crops ✓ Use of Agriculture machinery, ✓ Fisheries, poultry etc. ✓ Right crop management practices ✓ Nutrition Management ✓ Insect management 	<p>14. Crops and Cropping system adopted in India Part – 1 (Hindi/English) Agricultural Field Officer – YouTube</p> <p>15. Integrated Farming System Model (Hindi Video) Integrated Farming In India - YouTube</p> <p>16. Mixed farming बिना लागत खेती Mixed Farming in Hindi Organic Farming Contributor - YouTube</p> <p>17. Contract Farming अनुबंध कृषि अनुबंध कृषि - क्या है फायदेमंद या नहीं - YouTube</p>	<p>19:28</p> <p>3:46</p> <p>11:00</p> <p>4:43</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Optional</p>
IV	<p>Green Revolution</p> <ul style="list-style-type: none"> ✓ Need of Green revolution post independence ✓ Important components of Green Revolution and its impact on Indian Agriculture ✓ Green Revolution and Future Challenges ✓ Challenge of Food security 	<p>18. The Green Revolution: India's Independence and Scientific Community (H) (indiascience.in)</p> <p>19. Green Revolution of India भारत की हरित क्रांति - YouTube</p> <p>20. #Green Revolution in India Green Revolution भारत में हरित क्रांति Harit Kranti - YouTube</p>	<p>26:39</p> <p>20:27</p> <p>23:53</p>	<p>Essential</p> <p>Optional</p> <p>Optional</p>
V	<p>Agriculture Technology Practices</p> <ul style="list-style-type: none"> ✓ Importance of Agriculture Technology ✓ Different types of technology based farming system ✓ Popular Technologies widely used in Agriculture ✓ Farm Mechanization and its impact on Agriculture economics 	<p>21. Agriculture and Technology - To The Point Special - YouTube</p> <p>22. KRISHI DARSHAN: DD Kisan's program on advanced technology in Agriculture sector - YouTube</p> <p>23. Farming Technology (H) (indiascience.in)</p> <p>24. Farm Mechanisation in India (Hindi)- Doubling farmers income - YouTube</p> <p>25. AGRITECH SHOW on Biofortified Crops - YouTube</p>	<p>9:12</p> <p>30:05</p> <p>24:22</p> <p>25:30</p> <p>11.13</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Optional</p> <p>Optional</p>
VI	<p>Innovative technologies</p> <ul style="list-style-type: none"> ✓ Use of IT in agriculture ✓ Applications of IoT in Smart Agriculture ✓ About Precision Farming ✓ Enhancing production, reducing harvesting time and reduction in investment ✓ About Multilayer farming or vertical farming. 	<p>26. AGRITECH SHOW on Internet of Things and Smart Agriculture - YouTube</p> <p>27. परिशुद्धता कृषि Precision farming परिशुद्ध खेती Fine cultivation mgpe 11 political science - YouTube</p> <p>28. AGRITECH SHOW on Multilayer Farming - YouTube</p> <p>29. AGRITECH SHOW on Protected Cultivation - YouTube</p> <p>30. AGRITECH SHOW on Hydroponics - YouTube</p>	<p>11:57</p> <p>16:17</p> <p>11:41</p> <p>9:11</p> <p>14:44</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Optional</p>

	<ul style="list-style-type: none"> ✓ Why it is required? ✓ How it can be done? ✓ Management of multilayer farming. ✓ Government assistance in establishment of multilayer farming. ✓ About protected cultivation. ✓ Why it is required? ✓ How it can be done? ✓ Investment on establishment of Structure for protected cultivation. ✓ Management of protected cultivation 	<p>31. Vertical Farming - Why It Is Important ? Vertical Farming In India in hindi - YouTube</p> <p>32. यह है असल मे स्मार्ट फ़ार्मिंग Fasal Smart Farming Technology in India - YouTube</p> <p>33. AGRITECH SHOW on Smartphone Sensor Technology - YouTube</p> <p>34. 2022 में अब होगी सटीक और स्मार्ट फार्मिंग 🇮🇳 Fasal Farming System A to Z Indian Farmer - YouTube</p>	<p>8:45</p> <p>13:05</p> <p>11:47</p> <p>11:13</p>	<p>Optional</p> <p>Optional</p> <p>Optional</p> <p>Optional</p>
VII	<p>Irrigation and Water Management</p> <ul style="list-style-type: none"> ✓ Why water management? ✓ How to save water in farming? ✓ Different Methods to save water in farming. ✓ Why Water Conservation? ✓ How farm equipment and tools helps in water conservation? ✓ How to recharge ground water table? ✓ About Water conservation and Management ✓ Present status of water scarcity in India. ✓ Challenges in Water Conservation. ✓ About Government initiatives through JAL Shakti? ✓ Why Irrigation required? ✓ Traditional and Advanced irrigation methods their pros and cons. ✓ About Drip irrigation system. 	<p>35. Water Management in Farming कृषि में जल व्यवस्थापन Shashwat Yogic kheti - YouTube</p> <p>36. Water Conservation techniques in Agriculture खेती में कैसे करें जल संरक्षण से अधिक पैदावार - YouTube</p> <p>37. Need for water management in India - Audio Article - YouTube</p> <p>38. हमारे सिंचाई के सारे स्मार्ट सिस्टम Irrigation How to Build a Farm - Part 04 Indian Farmer - YouTube</p> <p>39. सिंचाई का आधुनिक तरीका केंद्रीय धुरी सिंचाई विधि Center Pivot Irrigation System - YouTube</p> <p>40. Israel Advance Agriculture Technology in Hindi - YouTube</p> <p>41. Sub Surface Drip Irrigation (H) (indiascience.in)</p> <p>42. Miracles by Israel in Agriculture How Israel do farming in desert? India Israel Friendship - YouTube</p>	<p>2:59</p> <p>7:31</p> <p>16:49</p> <p>26:47</p> <p>5:40</p> <p>6:52</p> <p>3:40</p> <p>9:26</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Optional</p> <p>Optional</p> <p>Optional</p> <p>Optional</p>
VII	<p>Soil Health Management</p> <ul style="list-style-type: none"> ✓ About Integrated Nutrient Management 	<p>43. Integrated Nutrient Management (in hindi) समन्वित खाद प्रबंधन - YouTube</p>	<p>6:06</p>	<p>Essential</p>

	<ul style="list-style-type: none"> ✓ About bio fertilizer & its uses ✓ Issues for effective adoption of INM ✓ Why Soil Health Card ✓ How to conduct soil testing? ✓ What is Soil Health Management? ✓ Effects of organic and chemical Fertilizers ✓ Potash as Fertilizer ✓ Right use of potash and its effect of potash on farming ✓ Use of Polysulphate and its benefits ✓ What is NPK and its Uses ✓ Effect on plants due to deficiency of NPK fertilizer 	<p>44. 3 Integrated Nutrient Management - YouTube</p> <p>45. Soil Health Card: A step towards farmer help (Hindi) - YouTube</p> <p>46. Soil Health Management (E) (indiascience.in)</p> <p>47. Soil Sampling and Testing (Hindi) - YouTube</p> <p>48. खेती बिना खाद कैसे ? रासायनिक या जैविक - जरूरी है Khetike लिए कौन सी Manure - Organic OR Chemical - YouTube</p> <p>49. फसल Fasal उत्पादन में पोटाश का महत्व पोटाश तत्व का महत्व Importance Of Potash - YouTube</p> <p>50. Kisano के लिए बाजार में उतरा IPL का नया प्राकृतिक उर्वरक : Indian Potash Limited : Green TV - YouTube</p> <p>51. NPK Fertilizer क्या है, NPK कब, कितना और कैसे इस्तेमाल करे अपने पौधों पर और इसके क्या फायदे होंगे? - YouTube</p> <p>52. Soil Health (Hindi) - YouTube</p> <p>53. Modern Dimensions of Scientific Agriculture (H) (indiascience.in)</p> <p>54. Soil Nutrition - for Agricultural Field Officer (Hindi/English) - YouTube</p> <p>55. Manure and Fertilizers Class 8 in Hindi Crop Production and Management Crop Rotation Class 8 - YouTube</p> <p>56. AGRITECH SHOW on Vermi Bed Technology for production of Vermi Compost - YouTube</p> <p>57. What is Organic Agriculture with Full Information? – [Hindi] – Quick Support - YouTube</p> <p>58. AGRITECH SHOW on Biofertilizer - YouTube</p>	<p>2:07</p> <p>24:48</p> <p>13:36</p> <p>7:20</p> <p>5:21</p> <p>19:02</p> <p>7:25</p> <p>18:59</p> <p>26:37</p> <p>23:38</p> <p>9:48</p> <p>12:00</p> <p>9:09</p> <p>11:44</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Optional</p> <p>Optional</p> <p>Optional</p> <p>Optional</p> <p>Optional</p> <p>Optional</p> <p>Optional</p>	
	IX	<p>Post Harvest, Cold Chain and Agriculture Marketing</p> <ul style="list-style-type: none"> ✓ Harvest of crop and right time ✓ Storage practices 	<p>59. Crop Storage उत्पादन का सही भंडारण कैसे करें Kisan Crop Production and Management – YouTube</p> <p>60. Value Addition: Agro Produce (H) (indiascience.in)</p> <p>61. Agricultural Marketing in India – YouTube</p>	<p>7:42</p> <p>28:25</p> <p>51:56</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p>

	<ul style="list-style-type: none"> ✓ Pre treatment of Storage place ✓ About value addition ✓ About GI ✓ Value addition of orange, starfruit, tamarind, soyabean and pineapple ✓ Overview on Agriculture Marketing ✓ Basic facilities needed for agriculture marketing ✓ Government measures in Agriculture marketing 	<p>62. कृषि विपणन (Agriculture Marketing) By- Dr. Harsh Mani Singh Indian Economics IAS, PCS, NET/JRF – YouTube</p> <p>63. Food Safety (E) (indiascience.in)</p> <p>64. How we do Wheat harvesting and storage: II Krishi Darshan II 26 April 2019 – YouTube</p> <p>65. National Agriculture Market eNAM special – YouTube</p> <p>66. Minimum Support Price What is MSP in Agriculture - IN NEWS Drishti IAS - YouTube</p>	<p>10:54</p> <p>60:19</p> <p>25:20</p> <p>55:34</p> <p>25:06</p>	<p>Essential</p> <p>Optional</p> <p>Optional</p> <p>Optional</p> <p>Optional</p>
X	<p>Agri Start ups and Entrepreneurship</p> <ul style="list-style-type: none"> ✓ What is start up ✓ Contribution (%) of start up ✓ Global scenario of start up ✓ Scope of Start up in Sorting, Grading ✓ In adulteration, ✓ One stop shop/kiosks, alternate use of paddy straw baler, Technology for biocontrol, enhancing the agriculture productivity 	<p>67. Agricultural Startups Part 1 – YouTube</p> <p>68. https://youtu.be/60YD5jsSlmo (Top 10 Agritech Startups Empowering Indian Farmers)</p> <p>69. Profitable Agri Startups Business Ideas- (Part-2) (Hindi) – YouTube</p> <p>70. छोटे Kisan और Startup को RBI ने दी राहत. RBI ने आसान किए नियम, आसानी से मिलेगी पैसा KisanBulletin – YouTube</p>	<p>22:03</p> <p>4:06</p> <p>8:19</p> <p>10:37</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Optional</p>
XI	<p>Agriculture & Rural Development Schemes of Govt. of India</p> <ul style="list-style-type: none"> ✓ Brief of Govt. of India Schemes supporting Agriculture ✓ New Schemes introduced during last 5 years ✓ Rashtriya Krishi Vikas Yojna ✓ Mahatma Gandhi National Rural Employment Guarantee Scheme ✓ Kisan Credit Card Scheme 	<p>71. Govt Schemes for Agriculture in India – YouTube</p> <p>72. Latest Government Schemes for Agriculture Government Schemes by PM Narendra Modi – YouTube</p> <p>73. #RashtriyaKrishiVikasYojana राष्ट्रीय कृषि विकास योजना - YouTube</p> <p>74. MGNREGA - Sarkari Yojanayen - YouTube</p> <p>75. Kisan Credit Card (Hindi) – YouTube</p> <p>76. किसान क्रेडिट कार्ड (Kisan Credit Card) क्या है और कैसे मिलता है? KCC Benefits of KCC – YouTube</p> <p>77. Krishi Darshan : Welfare scheme being run by Agriculture Department – YouTube</p>	<p>40:26</p> <p>36:18</p> <p>2:37</p> <p>3:01</p> <p>5:49</p> <p>6:40</p> <p>24:54</p>	<p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Essential</p> <p>Optional</p>

		78. https://youtu.be/3HuIBezPJzI (Initiatives in Agriculture & Allied Sector for Mitigating farmers distress -New India Sankalp (Video)	58:16	Optional
		79. Krishi Darshan – Vermicompost and Pradhan Mantri Kisan SAMPADA Yojana special – YouTube	24:44	Optional
XII	Horticulture and Floriculture and other allied areas <ul style="list-style-type: none"> ✓ Concept of Integrated Horticulture Development ✓ Fruits that can be combined for integrated Horticulture Development ✓ Government Schemes supporting Horticulture and Floriculture Development and opportunities 	80. एकीकृत समन्वित बागवानी योजना II Krishi Darshan , 05:30 PM, 1 Jan 2020 – YouTube	24:57	Essential
		81. https://youtu.be/WfGYU6CKk9A (सघन बागवानी से आमदनी ही आमदनी)	15:58	Essential
		82. Floriculture Farming in India फूलों की उत्तम खेती Floriculture Business – YouTube	7:45	Essential
		83. krishi Darshan (Solar Energy Schemes in Agriculture) – YouTube	24:28	Optional
XIII	Animal Husbandry, Dairying & Fisheries <ul style="list-style-type: none"> ✓ Dairy Farming ✓ Dairy Farm Management and Best Practices ✓ Opportunities in Dairy and Fisheries ✓ Best Practices in Dairy and Fisheries for better productivity ✓ About Pradhan Mantri Matsya Sampada Yojna (PMMSY) 	84. Pashupalan Times: Steps in Animal Husbandry – 3 Min – YouTube	3:11	Essential
		85. पशुपालन - भाग 1 – डेयरी फार्म Dairy farm – in Hindi – YouTube	4:02	Essential
		86. Dairy Farm Management – YouTube	6:49	Optional
		87. Dairy Calf Management – YouTube	15:03	Optional
		88. Dairy farming Hindi Access Madhyapradesh – YouTube (Case Study)	11:52	Optional
		89. AGRITECH SHOW on Clean Milk Production Process - YouTube	11:55	Optional
		90. AGRITECH SHOW on Quality Control Technology for Milk Testing - YouTube	12:01	Optional
		91. PM launches 'Pradhan Mantri Matsya Sampada Yojana' to transform the fisheries sector - YouTube	2:38	Essential
XIV	Farmer Producer Organisations <ul style="list-style-type: none"> ✓ Concept of Farmer Producer Organisation and its relevance ✓ Advantages from FPOs ✓ Various Benefits for Farming through FPOs ✓ Govt. of India Assistance for FPOs 	92. FPO Kya Hai किसान उत्पादक संगठन Farmer Producer Organization PM Kisan PM Kisan Yojna - YouTube	25:11	Essential
		93. https://youtu.be/4Vbh0hp0IP4 (About FPOs-SFAC)	44:16	Optional
		94. https://youtu.be/gNutRAqRnYU (FPO-SFAC)	10:04	Optional

	✓ Success stories of FPOs			
XV	Agriculture Risk Management and Climate Resilience ✓ Climate Change and its impact on Agriculture ✓ About Crop Insurance Schemes ✓ Pradhan Mantri Fasal Bima Yojna ✓ Climate resilient cropping practices	95. Climate resilient farming (Hindi June 2013) - YouTube	6:11	Essential
		96. Climate Resilient Agriculture जलवायु अनुकूल कृषि #ClimateChange #GlobalWarming #JalJeevanHarivali - YouTube	6:42	Essential
		97. Fasal Bima फसल बीमा Fasal Bima Yojana In Hindi Prime Minister Crop Insurance Scheme - YouTube	3:01	Essential
		98. Climate Change & Indian Farmers (H) (indiascience.in)	23:08	Essential
		99. (Hindi) Pradhan Mantri Fasal Bima Yojana - YouTube	11:46	Essential
		100. What is PMFBY प्रधान मंत्री फसल बिमा योजना क्या है? - YouTube	2:03	Optional
		101. Crop Insurance Schemes PMFBY & RWBCIS explained, What new changes are introduced by the government? - YouTube	17:37	Optional
		102. Pradhan Mantri Fasal Bima Yojana - YouTube	6:36	Optional
		103. Climate Smart Agriculture in India जलवायु अनुरूप कृषि Climate Resilience Adaptation - YouTube	6:04	Optional

Other References:

1	Crop Specific Practices	Maize Cultivation.pptx Paddy Cultivation.pptx Potato Cultivation.pptx Suagrcane Cultivation.pptx Wheat cultivation.pptx		Optional
2	Notes on Basic Agriculture	hess404.pdf (ncert.nic.in) Chapter 4.pmd (ncert.nic.in)		Optional
3	Farmer Portal	Farmer Portal : Home Page		Optional
4	Agri Schemes	NABARD - National Bank For Agriculture And Rural Development		Optional
5	Mobile Applications	https://farmer.gov.in/mobileappsdownload.aspx		Optional
6	Other Relevant videos	स्वस्थ मृदा से बनेगा स्वस्थ भारत BY डॉ. यू. एस. तेवतिया इंडियन पोटाश लिमिटेड . नई दिल्ली - YouTube	23:07	Optional
		Kisano के लिए IPL(Indian Potash Limited) का तोहफा पोषकतत्वों का खजाना “पॉली हैलाइट”(Polyhallite) - YouTube	06:51	Optional
		Kisano के लिए बाजार में उतरा IPL का नया प्राकृतिक उर्वरक : Indian Potash Limited : Green TV - YouTube	19:02	Optional
		ट्रैन्च विधि से गन्ना बोन के फायदे BY डॉ. यू. एस. तेवतिया इंडियन पोटाश लिमिटेड - YouTube	07:26	Optional
		Kisan समझे Potash का महत्व Sanjeev Kr Chaudhary, Indian Potash Ltd On Green TV - YouTube	02:10	Optional
		एक आँख के गन्ने की बुवाई से लाभ BY डॉ. यू. एस. तेवतिया इंडियन पोटाश लिमिटेड - YouTube	10:13	Optional
		फसल Fasal उत्पादन में पोटाश का महत्व पोटाश तत्व का महत्व Importance Of Potash - YouTube	05:21	Optional
7	Farmer Friendly Handbook	FFH201819_Hindi.pdf (agricoop.gov.in)		Optional
8	A Handbook of Govt. Schemes	Handbook_Schemes_Prog_Hin.pdf (agricoop.gov.in)		Optional
9	State wise Farmer Friendly Handbook	https://farmer.gov.in/handbooks.aspx		Optional
10	IEC material	https://drive.google.com/drive/folders/1a5k1WAK01x7Y7vdOUgrkKAhFJsLgLBak?usp=sharing		Optional
		https://drive.google.com/drive/folders/1H6z3nZtpO4SiDt2IIGGnm2mymTPCkw08?usp=sharing		Optional